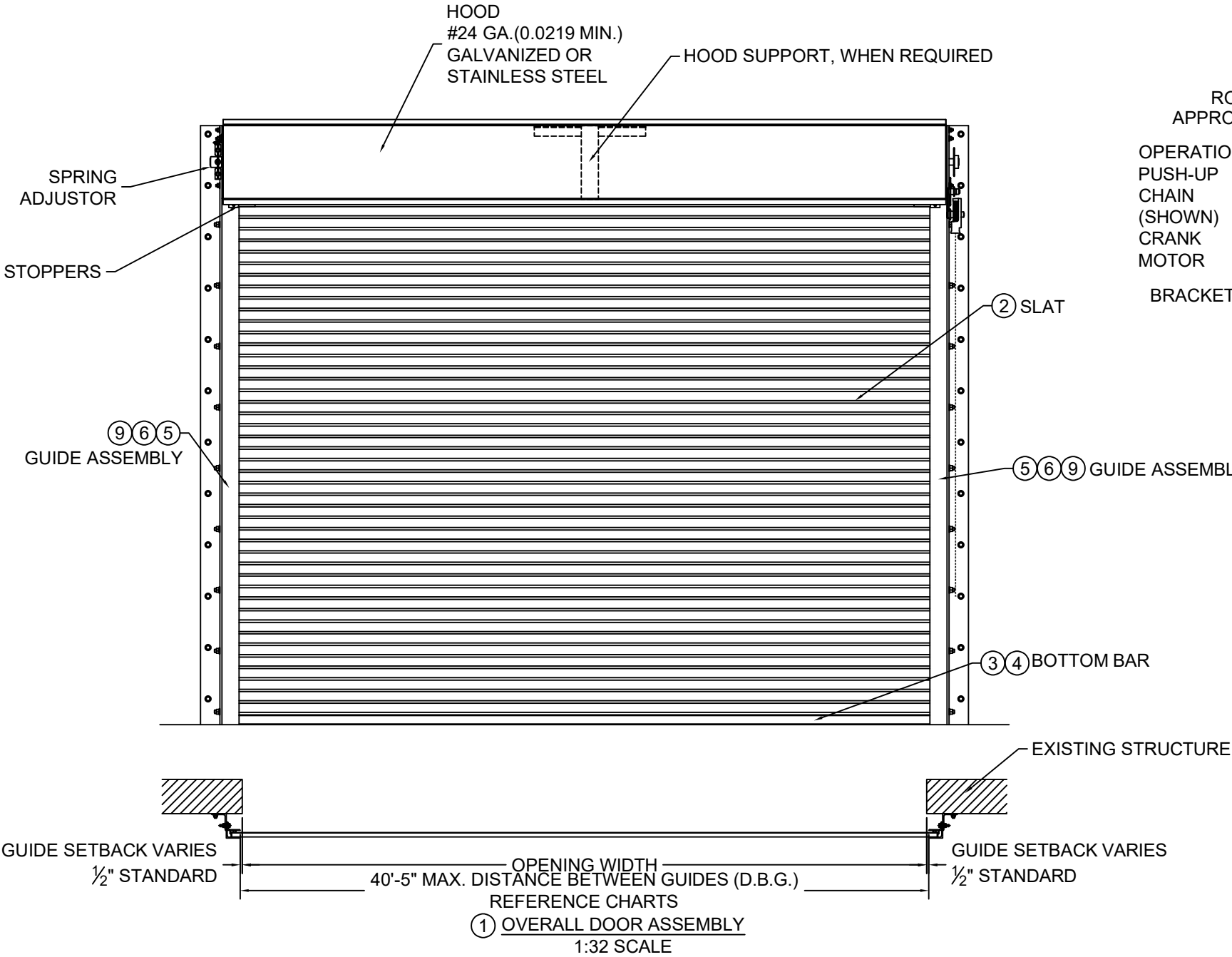
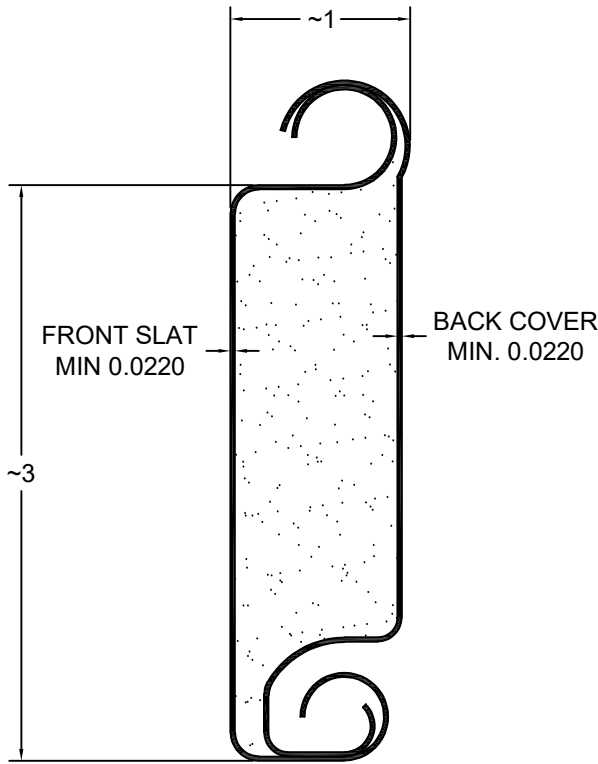
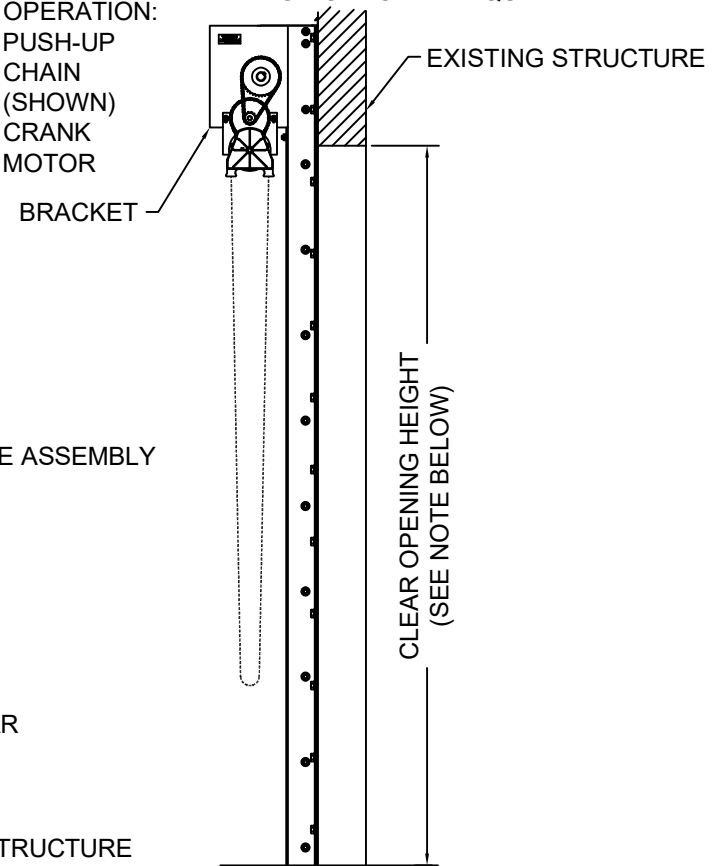


| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
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ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



2 SLAT DETAIL  
TYPICAL SECTION

ASTM A653 HSLAS TYPE B GRADE 40 G40 OR  
ASTM A653 HSLAS TYPE A GRADE 40 G40 OR  
ASTM A653 STRUCTURAL STEEL GRADE 40 G40  
OR TYPE 304 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
OR TYPE 316 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
OR TYPE 430 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
OR TYPE 201 STAINLESS STEEL (MIN. YIELD 40,000 psi)  
FULL SCALE

NOTE: WIND LOADS SPECIFIED  
IN TABLES ARE ACCEPTABLE  
FOR ANY C.O.H.. FOR GREATER  
THAN 30 FT, C.O.H., MOUNTING  
CONDITIONS SHALL BE  
DETERMINED ON A SITE  
SPECIFIC BASIS.

SHAWN PATRICK KELLEY  
LICENSED PROFESSIONAL ENGINEER  
No 58299  
Digitally signed by shawn p kelley  
Date: 2026.08.19 13:28:43 -0400

shawn p  
kelley



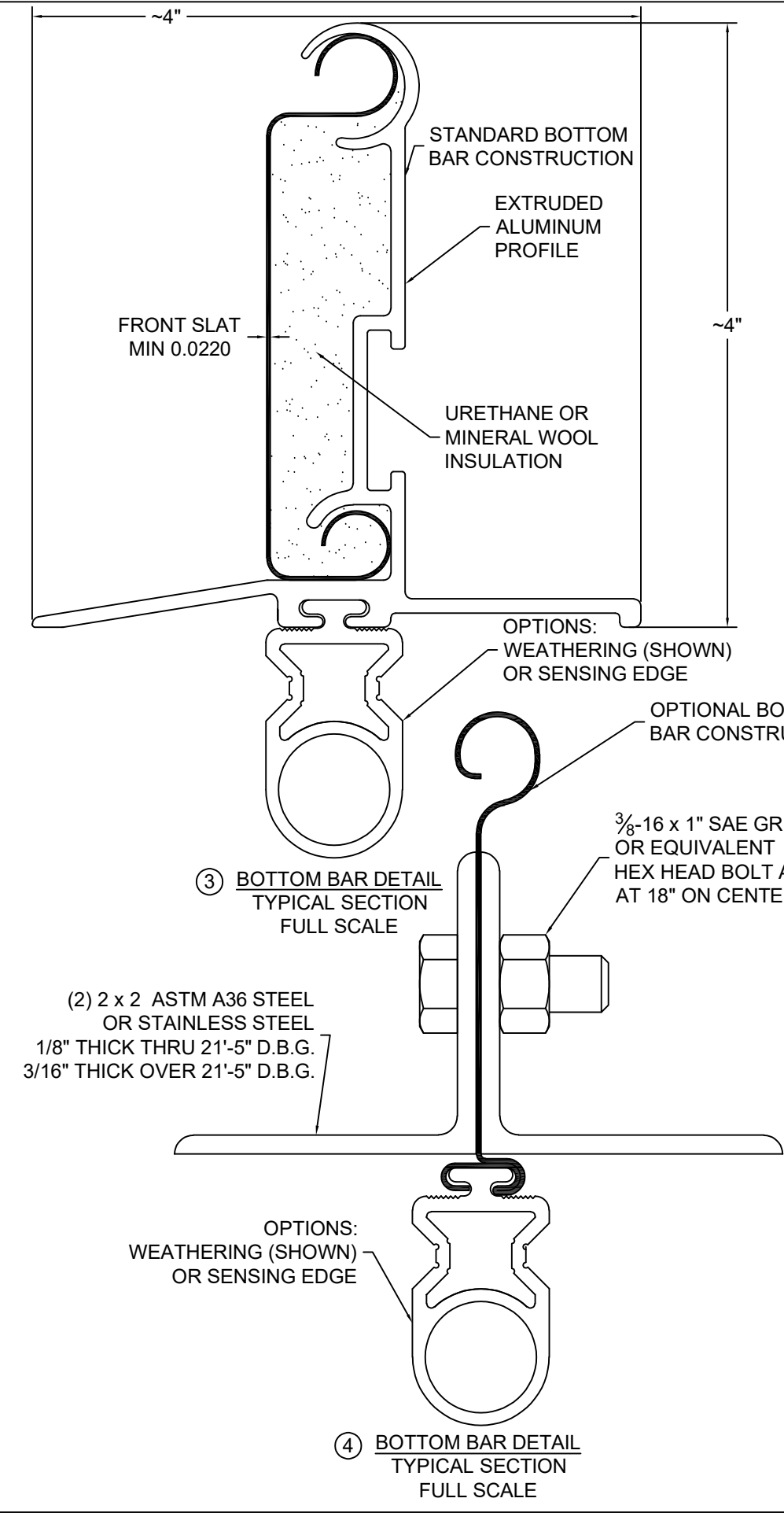
24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
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F: 800.526.0841  
E: ADS@CORNELLIRON.COM

Unless otherwise specified,  
dimensions are in inches &  
tolerances are:  
  
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
SIZE: B  
SCALE: AS NOTED  
SHEET: 1/58  
DWG NO: ES-16-137-CIW

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED



(2) 2 x 2 ASTM A36 STEEL  
OR STAINLESS STEEL  
1/8" THICK THRU 21'-5" D.B.G.  
3/16" THICK OVER 21'-5" D.B.G.

**GENERAL NOTES:**

1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE STANDARD BUILDING CODE, THE INTERNATIONAL BUILDING CODE, AND THE FLORIDA BUILDING CODE.
2. THIS ROLL-UP DOOR HAS BEEN TESTED FOR UNIFORM STATIC PRESSURE, IMPACT AND FATIGUE RESISTANCE IN ACCORDANCE WITH THE FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES TAS 201, TAS 202, AND TAS 203.
3. A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.
4. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.
5. THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
6. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE AND EMBOSSED SEAL ON EACH PERMIT COPY, WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.
7. THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS Vx & Vy ON THE JAMBS OF THE DOOR.
8. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
9. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.
10. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELEGATED REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND EMBOSSED SEAL OF THE DELEGATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW.
11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED STEEL, PLATED STEEL, OR STAINLESS STEEL
12. ALL WINDLOCK RIVETS SHALL BE 1/4" STEEL RIVETS IFI GRADE 30 WITH A MINIMUM TENSILE STRENGTH OF 1,850 Lbs., AND SHEAR STRENGTH OF 2,400 Lbs., U.O.N.. RIVETS TO BE INSTALLED IN ALL WINDLOCK HOLES.
13. ENDLOCKS/WINDLOCKS SHALL BE CAST MALLEABLE IRON TYPE 32510 PER ASTM A47 OR CAST DUCTILE IRON PER ASTM A536 GRADE 65-45-12.
14. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. MINIMUM WELDING PROCESSES SHALL BE ARC WELDING A.W.S. E7014 OR MIG WELDING A.W.S. ER70S-6.
15. ANCHOR NOTES:  
A. EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.  
B. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.  
C. ANCHOR CAPACITY FOR THIS ROLL-UP DOOR IS BASED ON MIN. 4,000 P.S.I. CONCRETE EXCEPT WHERE NOTED..  
D. FOR MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE, REFER TO TABLES.
16. DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL
17. ALL SHAPES USED FOR GUIDE ASSEMBLIES MUST CONFORM TO ASTM A36 FOR STEEL OR ASTM A276 FOR TYPES 304 OR 316 WITH A MINIMUM 36 KSI YIELD STRENGTH
18. ALL INNER ANGLE THICKNESSES IN THIS EVALUATION ARE LISTED AS MINIMUM VALUES. THICKER ANGLES MAY BE SUPPLIED FOR THE INNER ANGLE IF REQUIRED BY OTHER LISTING AGENCIES.

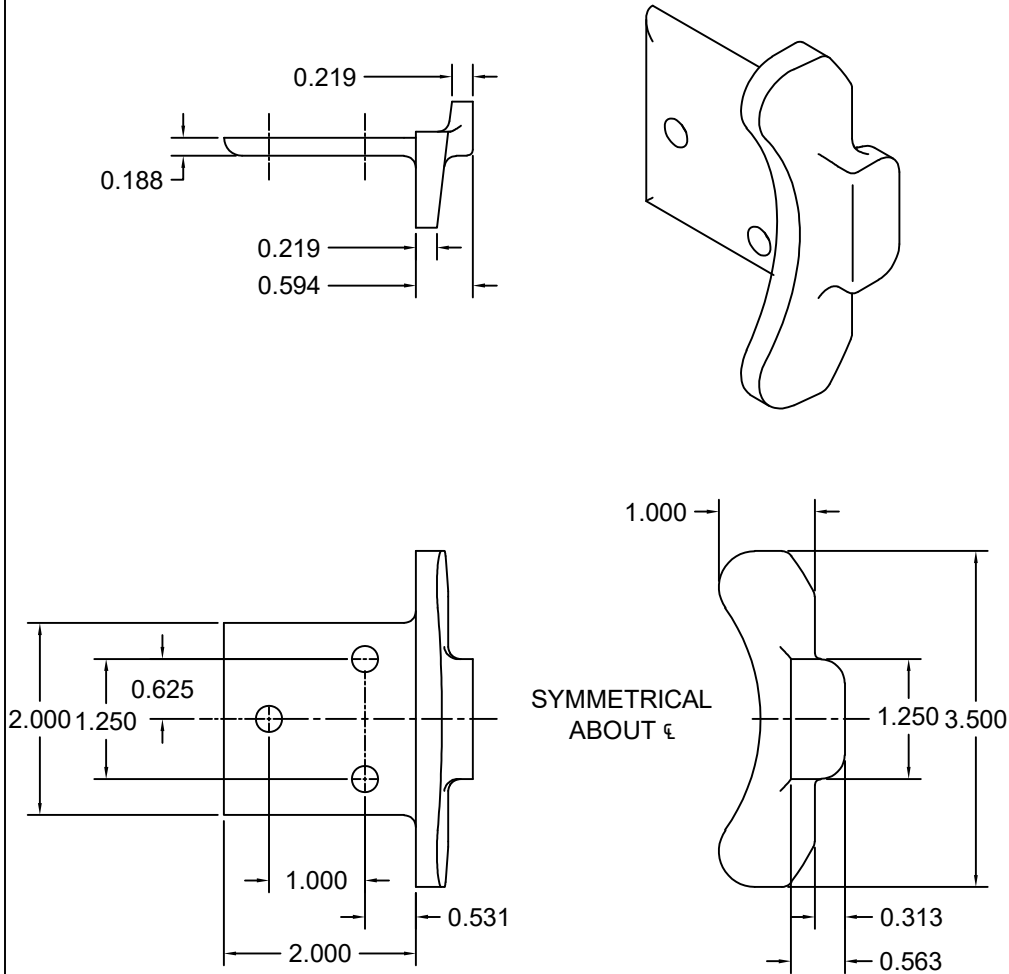


|                                                                                                   |                                                                      |  |                                                                                                                                                        |            |                    |                |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|----------------|
|                                                                                                   | 24 ELMWOOD AVE 1901 S. LITCHFIELD RD<br>MOUNTAINTOP, PA GOODYEAR, AZ |  | Unless otherwise specified,<br>dimensions are in inches &<br>tolerances are:<br><br>0.000 = +/- 0.031<br>FRACTIONAL = +/- 1/32<br>ANGLES = +/- 1/2 DEG |            |                    |                |
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| TITLE: WIND LOAD CONFIGURATION<br>INSULATED ROLLING STEEL DOOR<br>CP0001/CP0651 SLAT IMPACT RATED |                                                                      |  | DRAWN BY:<br>KAD                                                                                                                                       | SIZE:<br>B | SCALE:<br>AS NOTED | SHEET:<br>2/58 |
|                                                                                                   |                                                                      |  | DWG NO:<br>ES-16-137-CIW                                                                                                                               |            |                    |                |

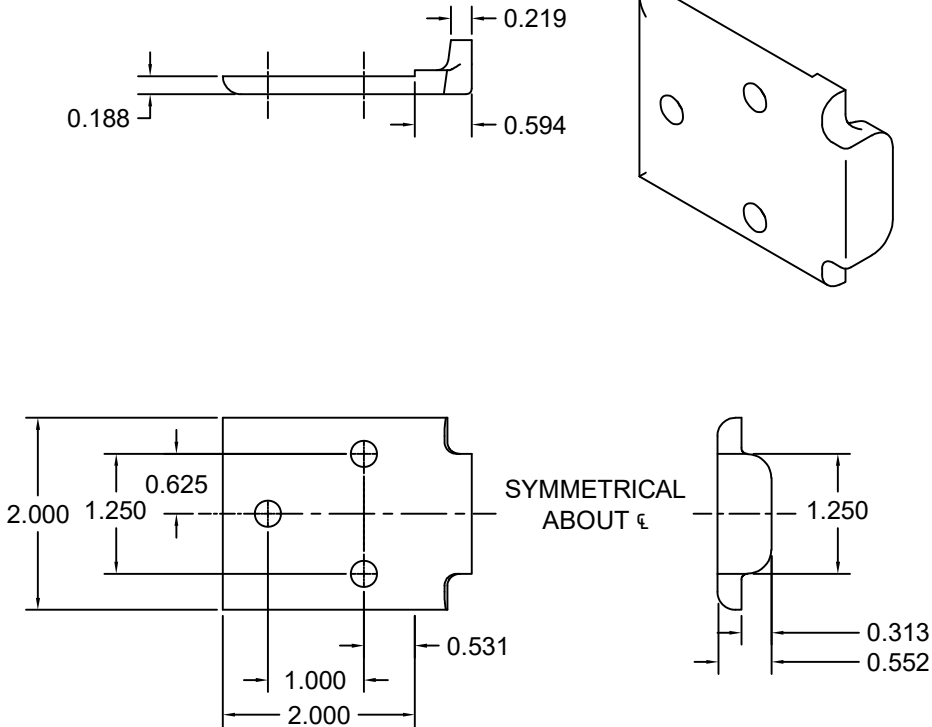
REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED



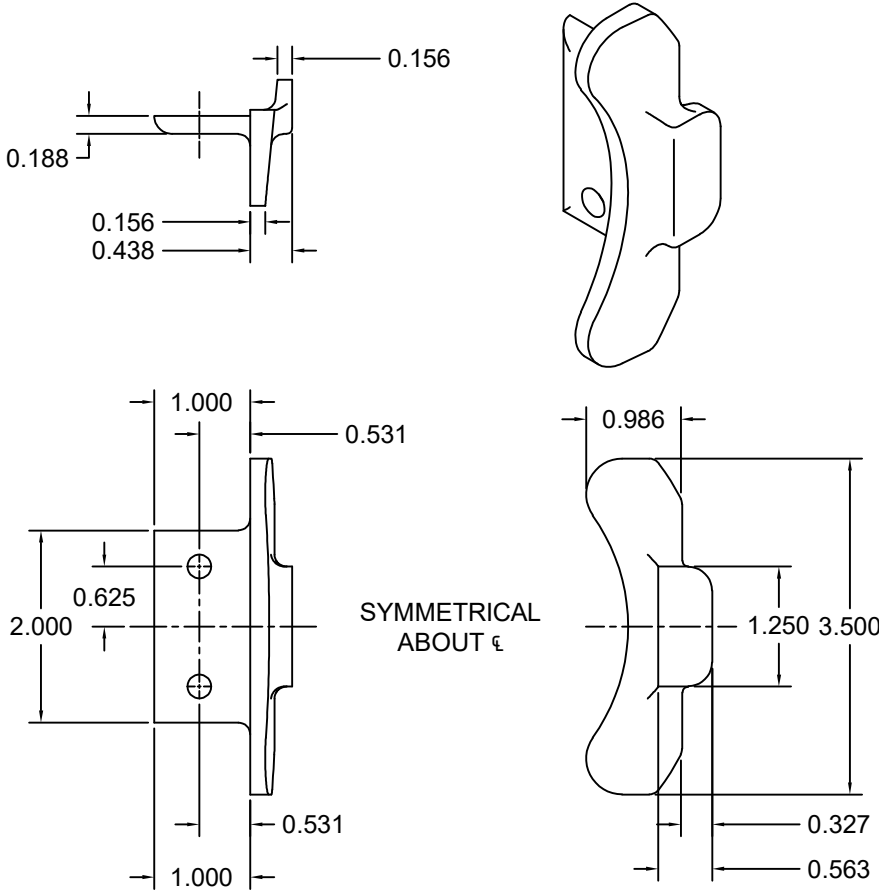
| L'TR | REVISION                | DATE       | BY  | E.C.O. |
|------|-------------------------|------------|-----|--------|
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |



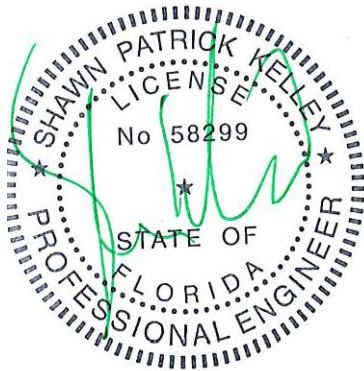
⑪ CP0630 ENDLOCK / WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH  
 ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE



⑫ CP0647 WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN  
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE



⑬ CP0629 ENDLOCK / WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH  
 ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE



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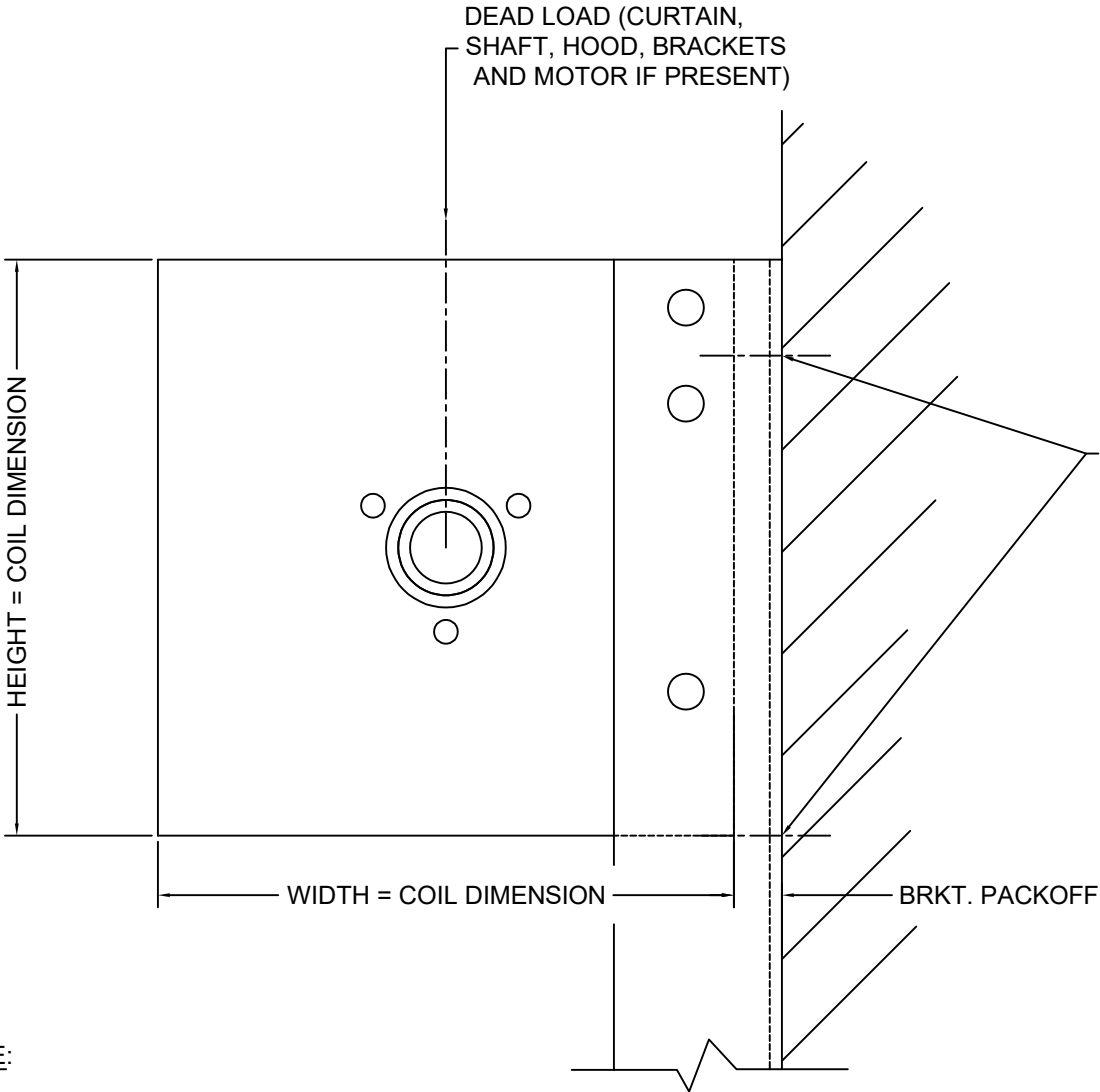
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 ANGLES = +/- 1/2 DEG

TITLE: **WIND LOAD CONFIGURATION**  
**INSULATED ROLLING STEEL DOOR**  
**CP0001/CP0651 SLAT IMPACT RATED**

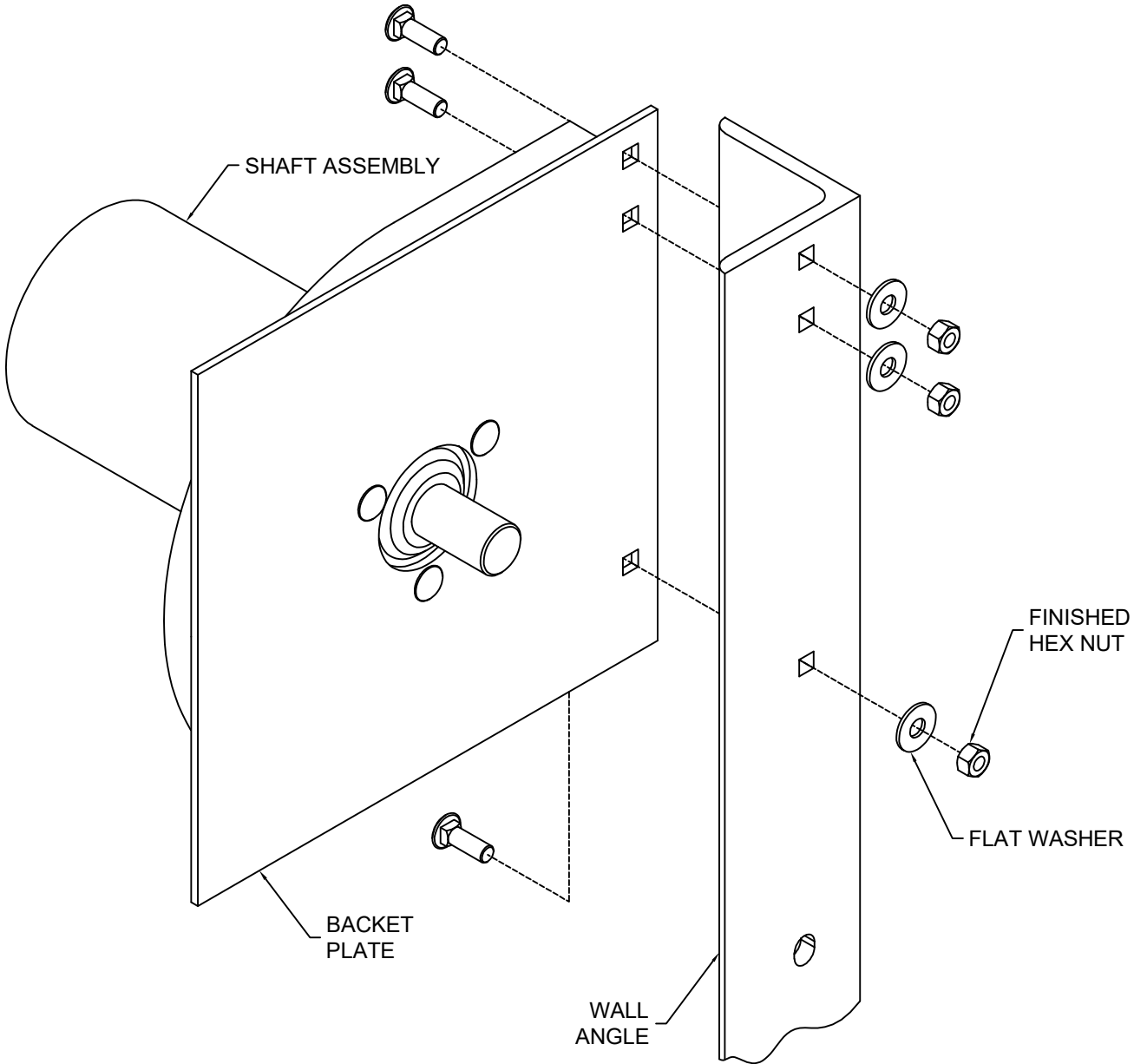
DRAWN BY: **KAD** SIZE: **B** SCALE: **AS NOTED** SHEET: **4/58**  
 DWG NO: **ES-16-137-CIW**

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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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FOR "WALL ANGLE" TO WALL CONNECTION, REF. TABLE BASED ON THE SPECIFIC INSTALLATION. USE AT LEAST ONE FASTENER OR WELD AT THE INDICATED LOCATIONS.



NOTE:  
1. WHEN MOTOR IS PROVIDED, HEIGHT OR WIDTH DIMENSION MAY INCREASE UP TO 2-1/2" BASED ON MOTOR LOCATION. WHEN AN 8" DIAMETER OR LARGER SHAFT ASSEMBLY IS PROVIDED, HEIGHT DIMENSION INCREASES BY 2".

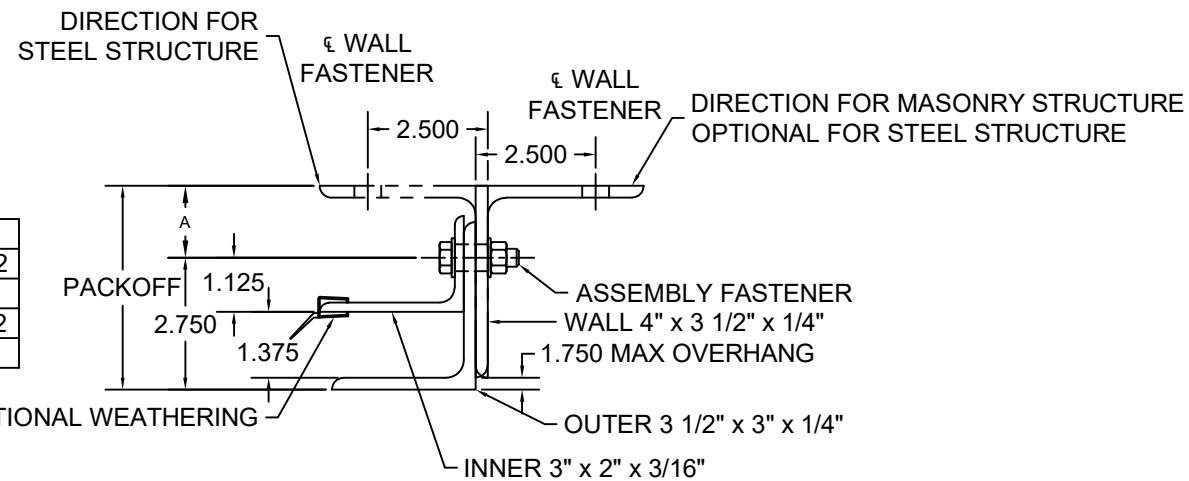
NOTE:  
1. STANDARD BRACKET MOUNTING DETAIL IS DEPICTED, OTHER MOUNTINGS ARE AVAILABLE



|                                                                                                   |                                                                      |                          |                                                                                                                                                        |          |        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|
| <div><div>CORNELL</div><div>Innovative door solutions.™</div></div>                               | 24 ELMWOOD AVE 1901 S. LITCHFIELD RD<br>MOUNTAINTOP, PA GOODYEAR, AZ |                          | Unless otherwise specified,<br>dimensions are in inches &<br>tolerances are:<br><br>0.000 = +/- 0.031<br>FRACTIONAL = +/- 1/32<br>ANGLES = +/- 1/2 DEG |          |        |
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| TITLE: WIND LOAD CONFIGURATION<br>INSULATED ROLLING STEEL DOOR<br>CP0001/CP0651 SLAT IMPACT RATED |                                                                      | DRAWN BY:                | SIZE:                                                                                                                                                  | SCALE:   | SHEET: |
|                                                                                                   |                                                                      | KAD                      | B                                                                                                                                                      | AS NOTED | 5/58   |
|                                                                                                   |                                                                      | DWG NO:<br>ES-16-137-CIW |                                                                                                                                                        |          |        |

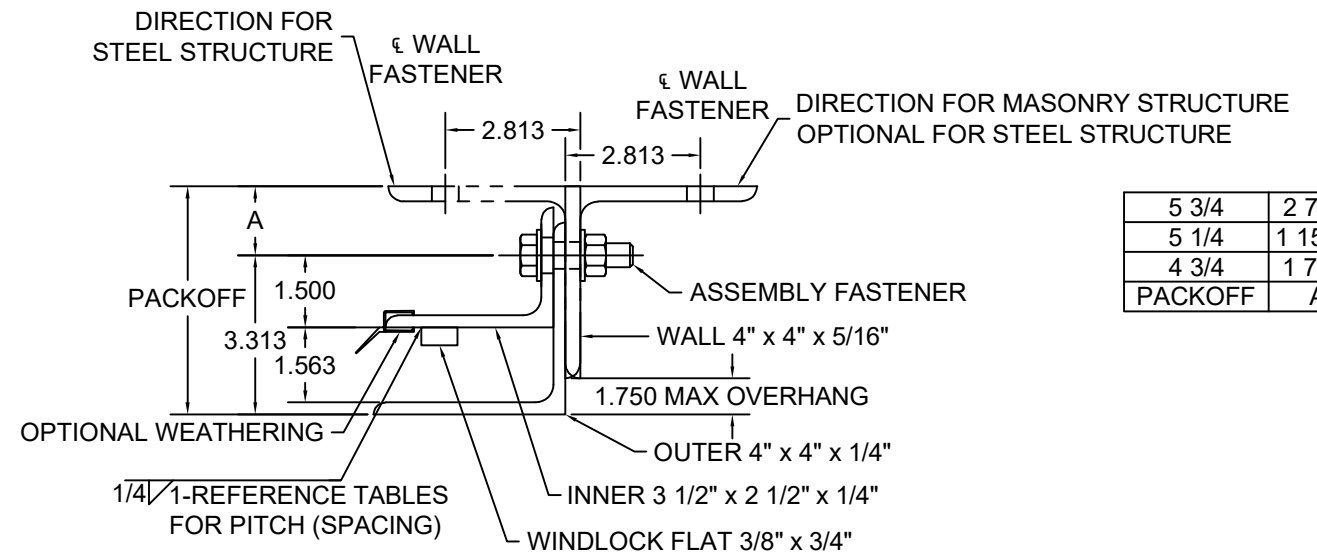
REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED





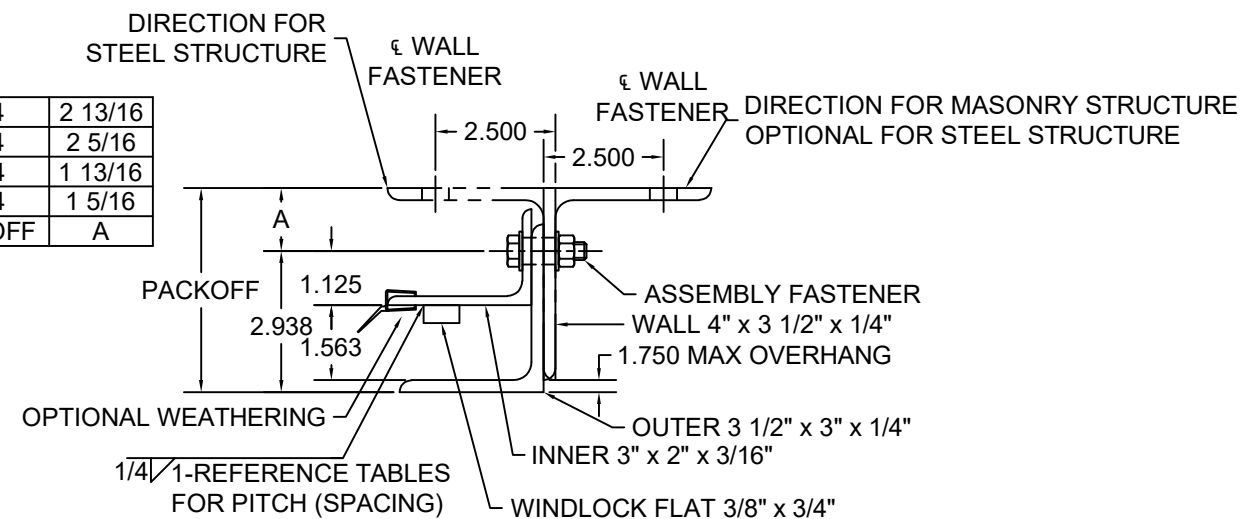
GUIDE ASSEMBLY TYPE 344\* (NON-WINDLOCK)  
SCALE: 3" = 1'-0"

|         |       |
|---------|-------|
| 5 3/4   | 3     |
| 5 1/4   | 2 1/2 |
| 4 3/4   | 2     |
| 4 1/4   | 1 1/2 |
| PACKOFF | A     |



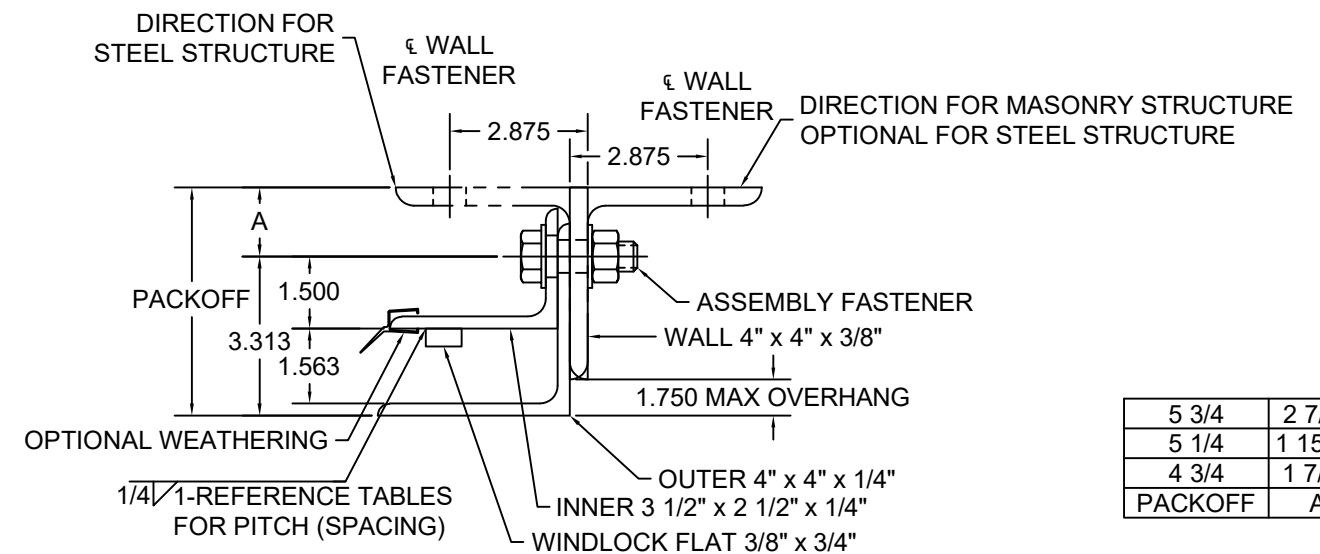
GUIDE ASSEMBLY TYPE 445  
SCALE: 3" = 1'-0"

|         |         |
|---------|---------|
| 5 3/4   | 2 7/16  |
| 5 1/4   | 1 15/16 |
| 4 3/4   | 1 7/16  |
| PACKOFF | A       |



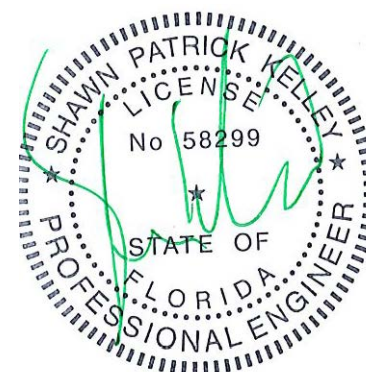
GUIDE ASSEMBLY TYPE 344  
SCALE: 3" = 1'-0"

|         |         |
|---------|---------|
| 5 3/4   | 2 13/16 |
| 5 1/4   | 2 5/16  |
| 4 3/4   | 1 13/16 |
| 4 1/4   | 1 5/16  |
| PACKOFF | A       |



GUIDE ASSEMBLY TYPE 446  
SCALE: 3" = 1'-0"

|         |         |
|---------|---------|
| 5 3/4   | 2 7/16  |
| 5 1/4   | 1 15/16 |
| 4 3/4   | 1 7/16  |
| PACKOFF | A       |



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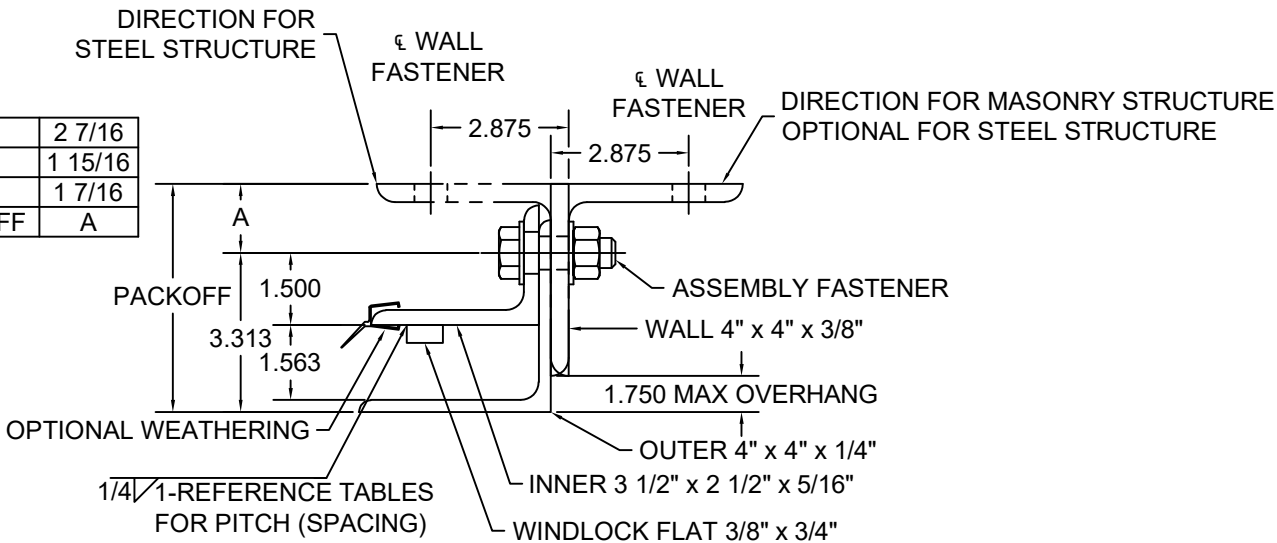
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INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

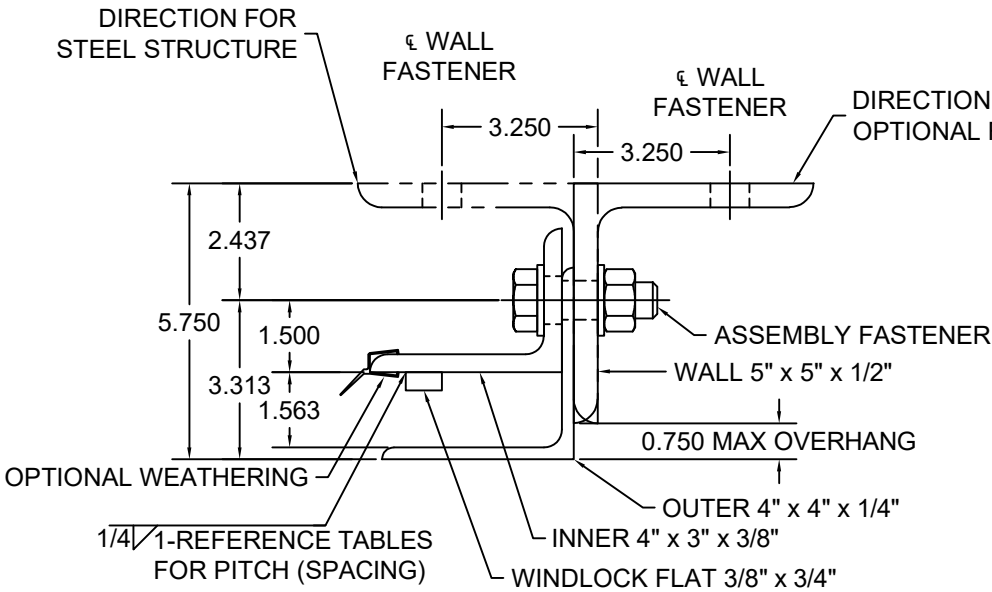
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SIZE: B  
SCALE: AS NOTED  
SHEET: 7/58  
DWG NO: ES-16-137-CIW

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

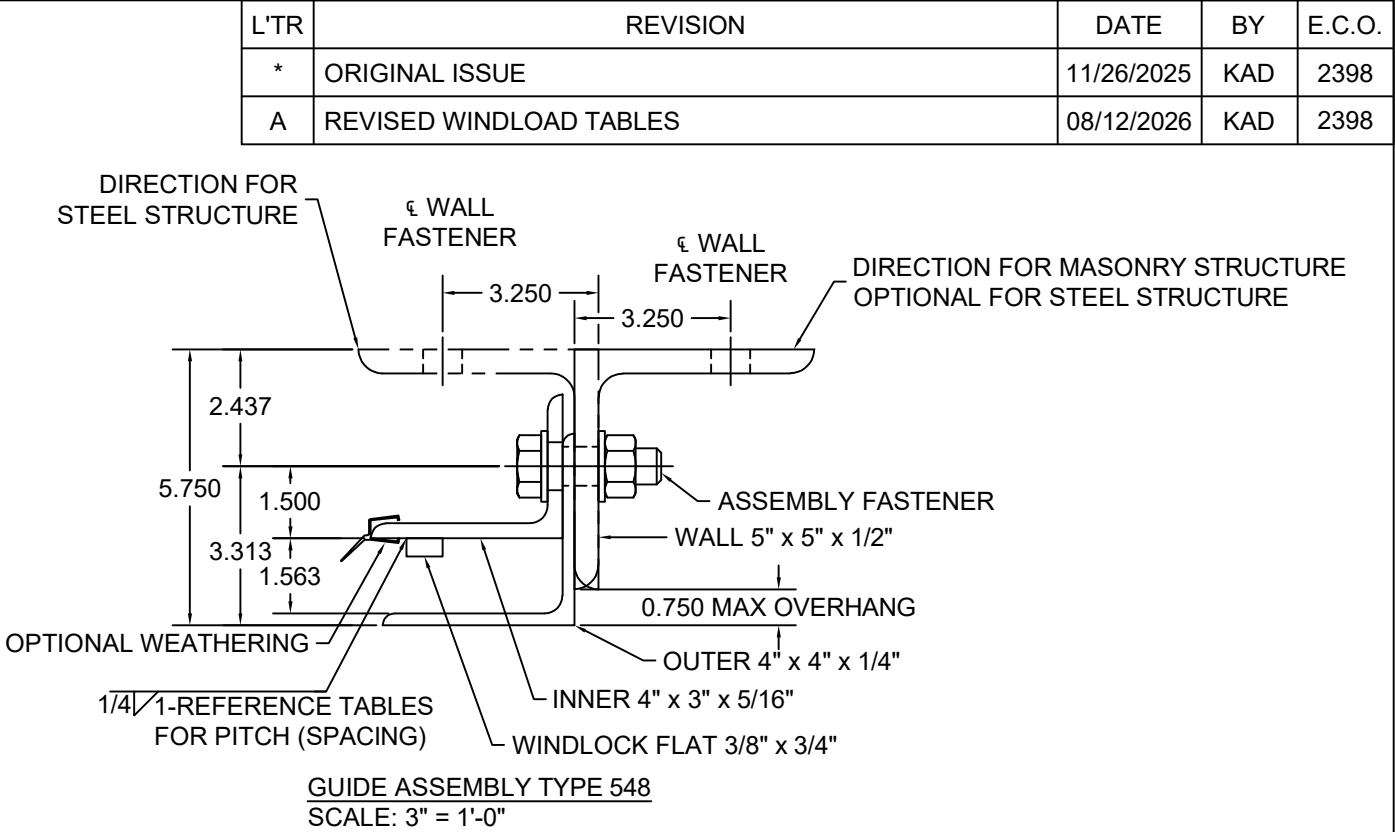
|         |         |
|---------|---------|
| 5 3/4   | 2 7/16  |
| 5 1/4   | 1 15/16 |
| 4 3/4   | 1 7/16  |
| PACKOFF | A       |



GUIDE ASSEMBLY TYPE 546  
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE 648  
SCALE: 3" = 1'-0"



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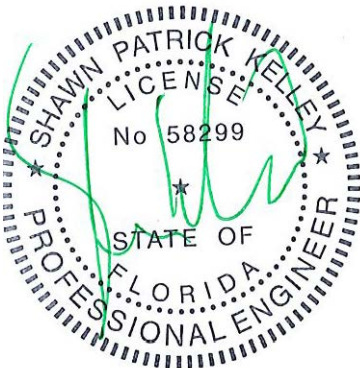
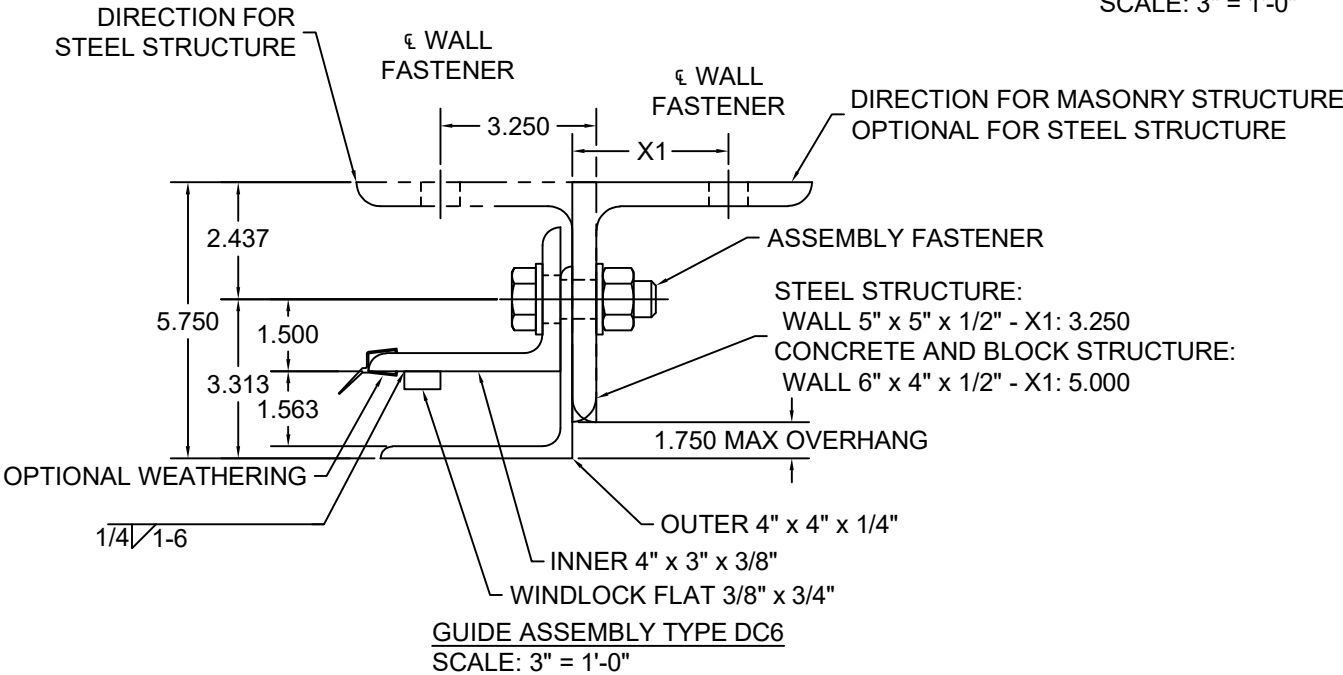
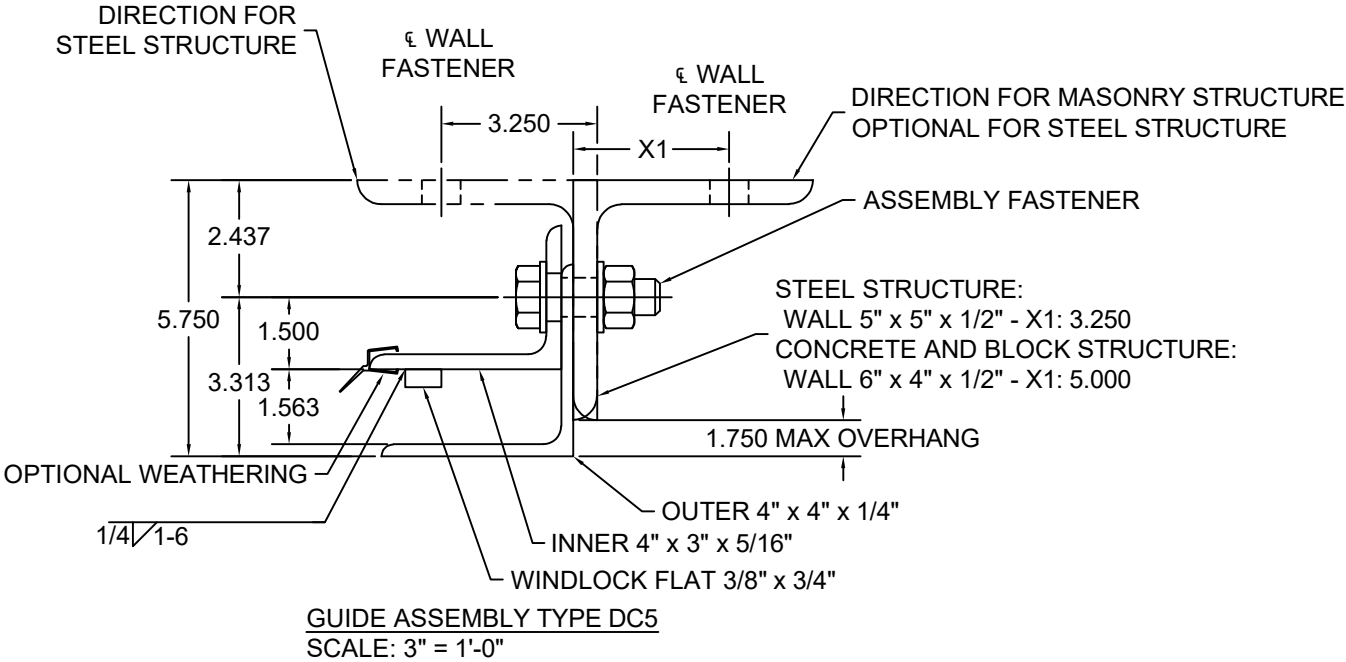
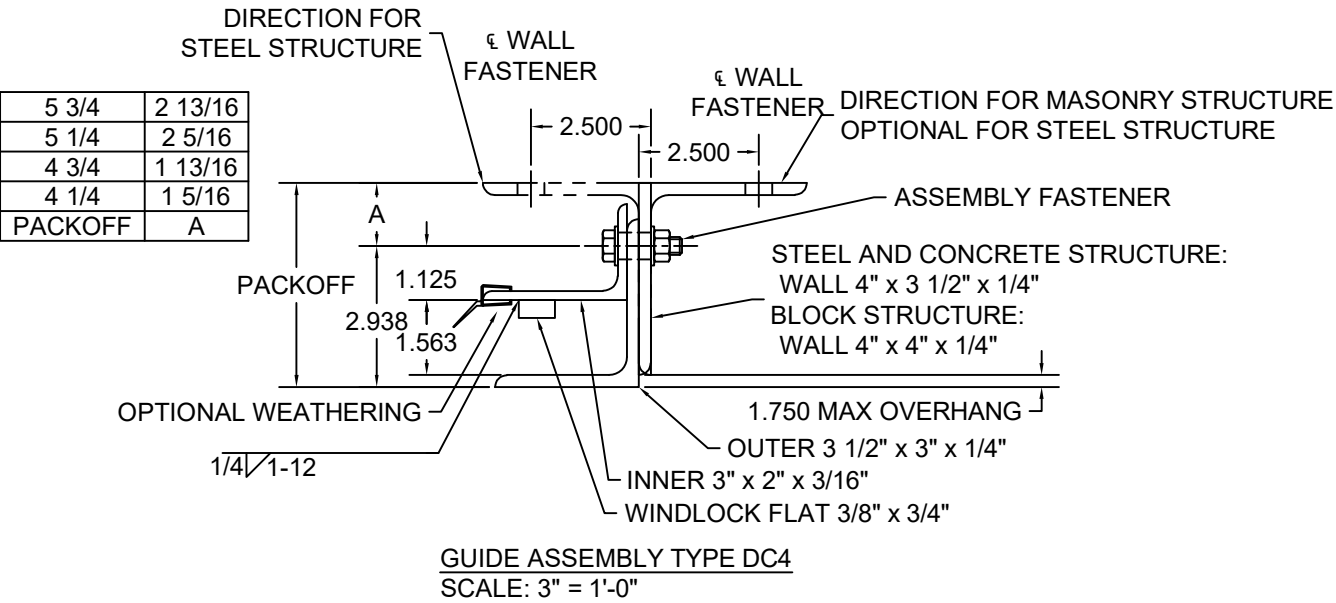
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|                                                                                                      |                          |            |                    |                |
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| TITLE:<br>WIND LOAD CONFIGURATION<br>INSULATED ROLLING STEEL DOOR<br>CP0001/CP0651 SLAT IMPACT RATED | DRAWN BY:<br>KAD         | SIZE:<br>B | SCALE:<br>AS NOTED | SHEET:<br>8/58 |
|                                                                                                      | DWG NO:<br>ES-16-137-CIW |            |                    |                |

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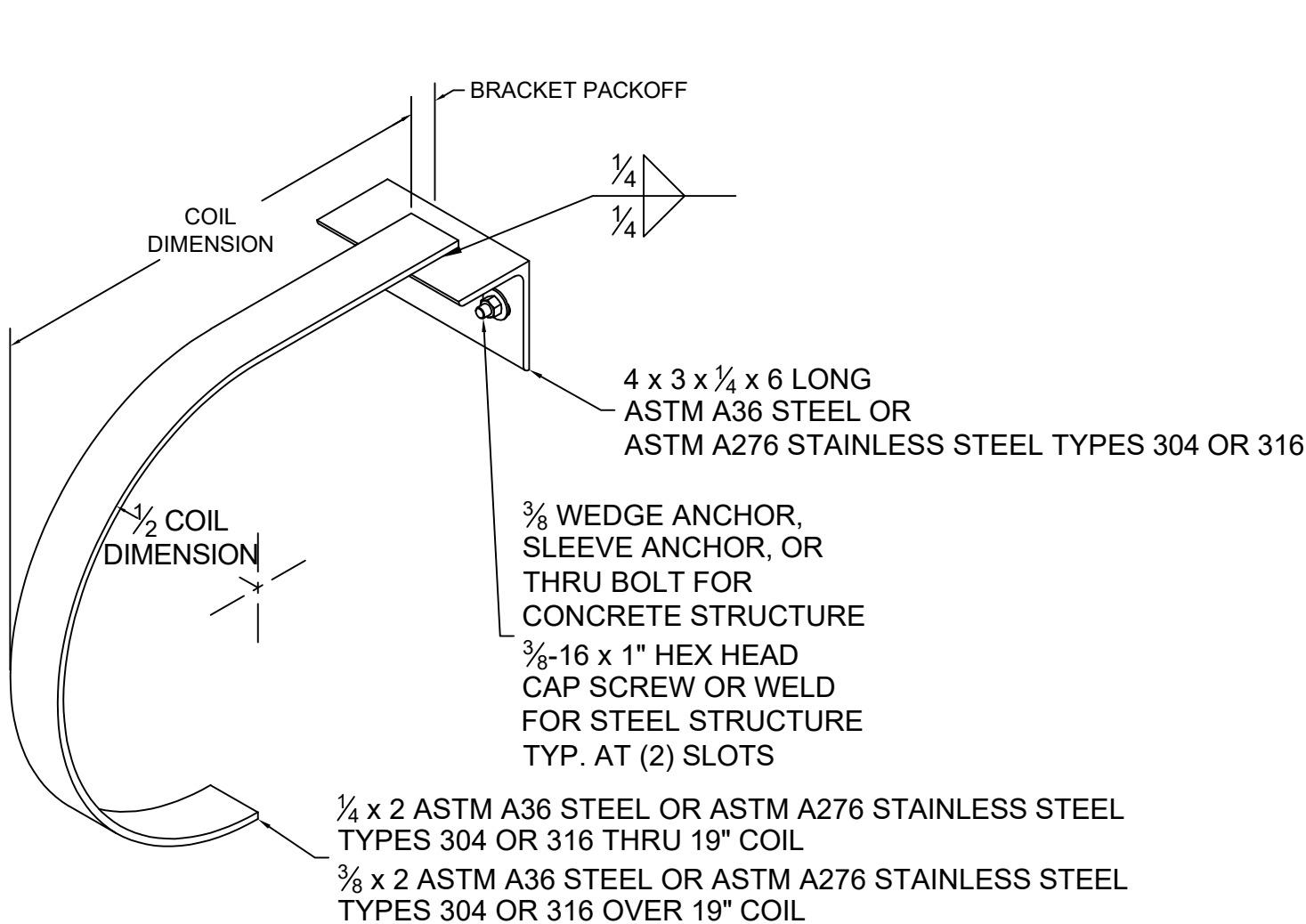
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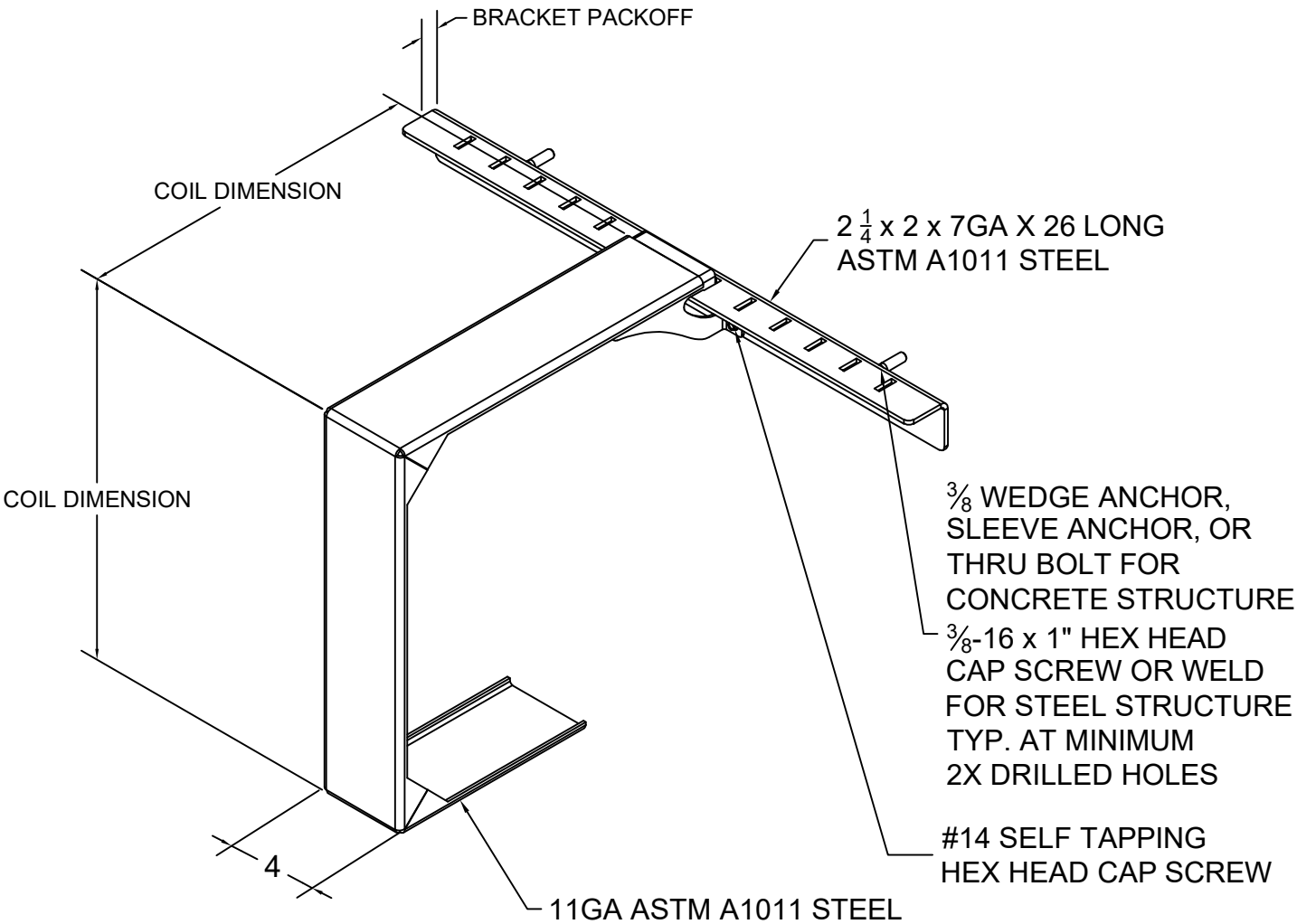
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SCALE: AS NOTED  
SHEET: 9/58  
DWG NO: ES-16-137-CIW

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MID-HOOD SUPPORT  
(WHEN REQUIRED)  
"D" SHAPE DEPICTED, SQUARE STYLE ALSO AVAILABLE  
SCALE: NTS



MID-HOOD SUPPORT  
(WHEN REQUIRED)  
SQUARE STYLE DEPICTED, "D" SHAPE ALSO AVAILABLE  
SCALE: NTS



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FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

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INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
DWG NO: ES-16-137-CIW

SIZE: B  
SCALE: AS NOTED  
SHEET: 10/58

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|      |                         |            |     |        |
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| Guide Construction |                        |       |                 |                |                          |                            |                           | CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF |     |       |     |                       |       |     |                       |       |     |             |       |     |                          |       |     |                             |         |     |                                          | Steel (Wall anchors are the same diameter as assembly fasteners) |         |                 |              |                    |               |                       |           |                         |                            |                         |                            |              |               |        |        |        |
|--------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|--------------------------------------------------------------------------------------|-----|-------|-----|-----------------------|-------|-----|-----------------------|-------|-----|-------------|-------|-----|--------------------------|-------|-----|-----------------------------|---------|-----|------------------------------------------|------------------------------------------------------------------|---------|-----------------|--------------|--------------------|---------------|-----------------------|-----------|-------------------------|----------------------------|-------------------------|----------------------------|--------------|---------------|--------|--------|--------|
| D.B.G. Up To       | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Filled CMU                                                                           |     |       |     |                       |       |     |                       |       |     |             |       |     |                          |       |     |                             |         |     |                                          | Welded                                                           |         | Through Bolt    |              |                    | Tapped Bolt   |                       |           | Superimposed Loads      |                            |                         |                            | D.B.G. Up To |               |        |        |        |
|                    |                        |       |                 |                |                          |                            |                           | Hilti Kwik Bolt TZ2 Carbon & Stainless Steel                                         |     |       |     | Powers Power-Stud+SD1 |       |     | Simpson Strong-Bolt 2 |       |     | Hilti KH-EZ |       |     | Simpson Strong-Tie Titen |       |     | Hilti KH-EZ Stainless Steel |         |     | Simpson Strong-Tie Titen Stainless Steel |                                                                  |         | Through Bolting |              | Min. Edge Distance | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. |              | Min Thickness | Vx (+) | Vy (+) | Vx (-) |
| 5'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                                                                   | 3/8 | 1 7/8 | 15  | 3/8                   | 2 3/8 | 15  | 3/8                   | 2 5/8 | 10  | 3/8         | 1 5/8 | 16  | 3/8                      | 2 3/4 | 11  | 3/8                         | 2       | 14  | 3/8                                      | 2 3/4                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 55           | 0             | 54     | 5'-5"  |        |
| 6'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                                                                   | 3/8 | 1 7/8 | 13  | 3/8                   | 2 3/8 | 12  | 3/8                   | 2 5/8 | 9   | 3/8         | 1 5/8 | 14  | 3/8                      | 2 3/4 | 9   | 3/8                         | 2       | 12  | 3/8                                      | 2 3/4                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 65           | 0             | 64     | 6'-5"  |        |
| 7'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                                                                   | 3/8 | 1 7/8 | 11  | 3/8                   | 2 3/8 | 11  | 3/8                   | 2 5/8 | 31  | 3/8         | 3 1/4 | 12  | 3/8                      | 2 3/4 | 8   | 3/8                         | 2       | 10  | 3/8                                      | 2 3/4                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 75           | 0             | 74     | 7'-5"  |        |
| 8'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                                                                    | 3/8 | 1 7/8 | 10  | 3/8                   | 2 3/8 | 9   | 3/8                   | 2 5/8 | 27  | 3/8         | 3 1/4 | 15  | 1/2                      | 3 1/2 | 27  | 3/8                         | 3 1/4   | 15  | 1/2                                      | 3 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 85           | 0             | 84     | 8'-5"  |        |
| 9'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 14                                                                                   | 3/8 | 3     | 8   | 3/8                   | 2 3/8 | 8   | 3/8                   | 2 5/8 | 24  | 3/8         | 3 1/4 | 13  | 1/2                      | 3 1/2 | 24  | 3/8                         | 3 1/4   | 13  | 1/2                                      | 3 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 95           | 0             | 94     | 9'-5"  |        |
| 10'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                                                                   | 3/8 | 3     | 8   | 3/8                   | 2 3/8 | 9   | 1/2                   | 3 1/2 | 22  | 3/8         | 3 1/4 | 12  | 1/2                      | 3 1/2 | 22  | 3/8                         | 3 1/4   | 12  | 1/2                                      | 3 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 105          | 0             | 104    | 10'-5" |        |
| 11'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                                                                   | 3/8 | 3     | 8   | 1/2                   | 2 1/2 | 8   | 1/2                   | 3 1/2 | 20  | 3/8         | 3 1/4 | 15  | 5/8                      | 4 1/2 | 20  | 3/8                         | 3 1/4   | 15  | 5/8                                      | 4 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 115          | 0             | 114    | 11'-5" |        |
| 12'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                                                                   | 3/8 | 3     | 8   | 1/2                   | 2 1/2 | 8   | 1/2                   | 3 1/2 | 18  | 3/8         | 3 1/4 | 14  | 5/8                      | 4 1/2 | 18  | 3/8                         | 3 1/4   | 14  | 5/8                                      | 4 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 125          | 0             | 124    | 12'-5" |        |
| 13'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                                                                   | 3/8 | 3     | 10  | 5/8                   | 3 3/8 | 12  | 5/8                   | 4 3/8 | 17  | 3/8         | 3 1/4 | 13  | 5/8                      | 4 1/2 | 17  | 3/8                         | 3 1/4   | 13  | 5/8                                      | 4 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 135          | 0             | 134    | 13'-5" |        |
| 14'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                                                                    | 3/8 | 3     | 9   | 5/8                   | 3 3/8 | 11  | 5/8                   | 4 3/8 | 16  | 3/8         | 3 1/4 | 12  | 5/8                      | 4 1/2 | 15  | 3/8                         | 3 1/4   | 12  | 5/8                                      | 4 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 145          | 0             | 144    | 14'-5" |        |
| 15'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                                                                    | 3/8 | 3     | 8   | 5/8                   | 3 3/8 | 11  | 5/8                   | 4 3/8 | 15  | 3/8         | 3 1/4 | 14  | 3/4                      | 5 1/2 | 14  | 3/8                         | 3 1/4   | 9   | 3/4                                      | 5 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 155          | 0             | 154    | 15'-5" |        |
| 16'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                                                                    | 3/8 | 3     | 8   | 5/8                   | 3 3/8 | 10  | 5/8                   | 4 3/8 | 14  | 3/8         | 3 1/4 | 13  | 3/4                      | 5 1/2 | 13  | 3/8                         | 3 1/4   | 8   | 3/4                                      | 5 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 36                      | 36                         | 3/16                    | 0                          | 165          | 0             | 164    | 16'-5" |        |
| 17'-5"             | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 10                                                                                   | 3/8 | 3     | 8   | 3/8                   | 2 3/8 | 8   | 3/8                   | 2 5/8 | 21  | 3/8         | 3 1/4 | 12  | 1/2                      | 3 1/2 | 20  | 3/8                         | 3 1/4   | 11  | 1/2                                      | 3 1/2                                                            | 8       | 3/8             | 5 3/4        | 36                 | 36            | 7/16" x 5/8"          | 36        | 28                      | 13                         | 11                      | 3/16                       | 254          | 175           | 240    | 174    | 17'-5" |
| 18'-5"             | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                                                                    | 1/2 | 3 3/4 | 9   | 5/8                   | 3 3/8 | 10  | 5/8                   | 4 3/8 | 14  | 3/8         | 3 1/4 | 14  | 3/4                      | 5 1/2 | 14  | 3/8                         | 3 1/4   | N/A | 8                                        | 3/8                                                              | 5 3/4   | 25              | 36           | 7/16" x 5/8"       | 24            | 18                    | 8         | 7                       | 3/16                       | 394                     | 185                        | 381          | 184           | 18'-5" |        |        |
| 19'-5"             | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 16                        | 9                                                                                    | 5/8 | 4 1/2 | N/A | N/A                   | N/A   | 8   | 5/8                   | 4 3/8 | 10  | 3/8         | 3 1/4 | N/A | N/A                      | N/A   | 10  | 3/8                         | 3 1/4   | N/A | 8                                        | 3/8                                                              | 5 3/4   | 19              | 36           | 7/16" x 5/8"       | 18            | 13                    | 6         | 5                       | 3/16                       | 526                     | 195                        | 514          | 195           | 19'-5" |        |        |
| 20'-5"             | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 13                        | 8                                                                                    | 5/8 | 4 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 13  | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 11  | 1/2                         | 4 1/4   | N/A | 8                                        | 3/8                                                              | 5 3/4   | 15              | 29           | 7/16" x 5/8"       | 14            | 9                     | 5         | N/A                     | 3/16                       | 653                     | 205                        | 641          | 205           | 20'-5" |        |        |
| 21'-5"             | 1 1/2                  | 0.719 | CP0629          | 344            | 10                       | 3/8                        | 12                        | 12                                                                                   | 3/4 | 5 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 9   | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 9   | 1/2                         | 4 1/4   | N/A | 8                                        | 3/8                                                              | 5 3/4   | 13              | 24           | 7/16" x 5/8"       | 11            | 7                     | N/A       | N/A                     | 3/16                       | 775                     | 215                        | 764          | 215           | 21'-5" |        |        |
| 22'-5"             | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                                                                    | 5/8 | 4 1/2 | N/A | N/A                   | N/A   | 8   | 3/4                   | 5 1/4 | 14  | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 11  | 1/2                         | 4 1/4   | N/A | 8                                        | 1/2                                                              | 6 13/16 | 23              | 36           | 9/16" x 3/4"       | 32            | 24                    | 11        | 8                       | 1/4                        | 692                     | 234                        | 685          | 234           | 22'-5" |        |        |
| 23'-5"             | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                                                                    | 5/8 | 4 1/2 | N/A | N/A                   | N/A   | 8   | 3/4                   | 5 1/4 | 14  | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 11  | 1/2                         | 4 1/4   | N/A | 8                                        | 1/2                                                              | 6 13/16 | 23              | 36           | 9/16" x 3/4"       | 32            | 24                    | 11        | 8                       | 1/4                        | 692                     | 234                        | 685          | 234           | 23'-5" |        |        |
| 24'-5"             | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 12                                                                                   | 3/4 | 5 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 11  | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 9   | 1/2                         | 4 1/4   | N/A | 8                                        | 1/2                                                              | 6 13/16 | 20              | 32           | 9/16" x 3/4"       | 28            | 21                    | 10        | 7                       | 1/4                        | 786                     | 244                        | 780          | 244           | 24'-5" |        |        |
| 25'-5"             | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 11                                                                                   | 3/4 | 5 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 9   | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 9   | 1/2                         | 4 1/4   | N/A | 8                                        | 1/2                                                              | 6 13/16 | 18              | 29           | 9/16" x 3/4"       | 25            | 18                    | 9         | 6                       | 1/4                        | 878                     | 254                        | 872          | 254           | 25'-5" |        |        |
| 26'-5"             | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 16                        | 9                                                                                    | 3/4 | 5 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 9   | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 8   | 1/2                         | 4 1/4   | N/A | 8                                        | 1/2                                                              | 6 13/16 | 16              | 25           | 9/16" x 3/4"       | 22            | 15                    | 7         | 5                       | 1/4                        | 1003                    | 264                        | 997          | 265           | 26'-5" |        |        |
| 27'-5"             | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 15                        | 9                                                                                    | 3/4 | 5 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 8   | 1/2         | 4 1/4 | N/A | N/A                      | N/A   | 8   | 1/2                         | 4 1/4   | N/A | 8                                        | 1/2                                                              | 6 13/16 | 14              | 23           | 9/16" x 3/4"       | 19            | 13                    | 7         | 5                       | 1/4                        | 1095                    | 274                        | 1088         | 275           | 27'-5" |        |        |
| 28'-5"             | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 14                        | 8                                                                                    | 3/4 | 5 1/2 | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 8   | 3/4         | 6 1/4 | N/A | N/A                      | N/A   | 8   | 1/2                         | 6 13/16 | 13  | 21                                       | 9/16" x 3/4"                                                     | 17      | 12              | 9/16" x 3/4" | 17                 | 12            | 6                     | N/A       | 1/4                     | 1186                       | 284                     | 1180                       | 285          | 28'-5"        |        |        |        |
| 29'-5"             | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 13                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | 8   | 3/4         | 6 1/4 | N/A | N/A                      | N/A   | 8   | 1/2                         | 6 13/16 | 12  | 20                                       | 9/16" x 3/4"                                                     | 16      | 11              | 9/16" x 3/4" | 16                 | 11            | 6                     | N/A       | 1/4                     | 1277                       | 294                     | 1270                       | 295          | 29'-5"        |        |        |        |
| 30'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 445            | 8                        | 1/2                        | 12                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | N/A | N/A         | N/A   | N/A | N/A                      | N/A   | 8   | 1/2                         | 6 13/16 | 11  | 18                                       | 9/16" x 3/4"                                                     | 14      | 14              | 9/16" x 3/4" | 14                 | 9             | 5                     | N/A       | 1/4                     | 1367                       | 304                     | 1361                       | 305          | 30'-5"        |        |        |        |
| 31'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 445            | 8                        | 1/2                        | 12                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | N/A | N/A         | N/A   | N/A | N/A                      | 8     | 1/2 | 6 13/16                     | 11      | 17  | 9/16" x 3/4"                             | 13                                                               | 13      | 9/16" x 3/4"    | 13           | 8                  | 5             | N/A                   | 1/4       | 1457                    | 315                        | 1451                    | 315                        | 31'-5"       |               |        |        |        |
| 32'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 18                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | N/A | N/A         | N/A   | N/A | N/A                      | 8     | 5/8 | 6 7/8                       | 12      | 19  | 11/16" x 7/8"                            | 21                                                               | 15      | 11/16" x 7/8"   | 21           | 15                 | 7             | 5                     | 5/16      | 1548                    | 325                        | 1542                    | 325                        | 32'-5"       |               |        |        |        |
| 33'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 17                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | N/A | N/A         | N/A   | N/A | N/A                      | 8     | 5/8 | 6 7/8                       | 11      | 18  | 11/16" x 7/8"                            | 20                                                               | 14      | 11/16" x 7/8"   | 20           | 14                 | 7             | 5                     | 5/16      | 1639                    | 335                        | 1632                    | 336                        | 33'-5"       |               |        |        |        |
| 34'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 446            | 6                        | 5/8                        | 16                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | N/A | N/A         | N/A   | N/A | N/A                      | 8     | 5/8 | 6 7/8                       | 10      | 17  | 11/16" x 7/8"                            | 19                                                               | 13      | 11/16" x 7/8"   | 19           | 13                 | 6             | 5                     | 5/16      | 1730                    | 345                        | 1723                    | 346                        | 34'-5"       |               |        |        |        |
| 35'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 446            | 6                        | 5/8                        | 15                        | N/A                                                                                  | N/A | N/A   | N/A | N/A                   | N/A   | N/A | N/A                   | N/A   | N/A | N/A         | N/A   | N/A | N/A                      |       |     |                             |         |     |                                          |                                                                  |         |                 |              |                    |               |                       |           |                         |                            |                         |                            |              |               |        |        |        |

|      |                         |            |     |        |
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| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF - Continued      |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |       |        |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|---------|--------|-------|--------|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |       |        |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |         |        |       |        |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |         |        |       |        |  |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 34                | 2 3/8 | 4                   | 33                     | 2 3/8 | 3 3/4               | 34                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 33                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 29    | 1 7/8               | 3 1/4                                  | 33    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 5'-5"   |        |       |        |  |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 31                | 2 3/8 | 4                   | 30                     | 2 3/8 | 3 3/4               | 31                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 30                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 27    | 1 7/8               | 3 1/4                                  | 31    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 6'-5"   |        |       |        |  |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 29                | 2 3/8 | 4                   | 28                     | 2 3/8 | 3 3/4               | 29                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 28                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 25    | 1 7/8               | 3 1/4                                  | 28    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 7'-5"   |        |       |        |  |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 27                | 2 3/8 | 4                   | 26                     | 2 3/8 | 3 3/4               | 27                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 26                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 23    | 1 7/8               | 3 1/4                                  | 27    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 8'-5"   |        |       |        |  |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 26                | 2 3/8 | 4                   | 25                     | 2 3/8 | 3 3/4               | 26                  | 2 1/2 | 4                   | 34          | 2 1/2 | 4                   | 25                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 22    | 1 7/8               | 3 1/4                                  | 25    | 2 1/2               | 4                           | 35    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 9'-5"   |        |       |        |  |
| 10'-5"                                                                                                | 344*              | N/A                   |       |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 32          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 21    | 1 7/8               | 3 1/4                                  | 24    | 2 1/2               | 4                           | 33    | 2 1/2               | 4                                   | 34    | 2 1/2               | 4                     | 5 3/4           | 10'-5"  |        |       |        |  |
| 11'-5"                                                                                                | 344*              | N/A                   |       |                     | 23                | 2 3/8 | 4                   | 22                     | 2 3/8 | 3 3/4               | 23                  | 2 1/2 | 4                   | 30          | 2 1/2 | 4                   | 22                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 20    | 1 7/8               | 3 1/4                                  | 23    | 2 1/2               | 4                           | 32    | 2 1/2               | 4                                   | 32    | 2 1/2               | 4                     | 5 3/4           | 11'-5"  |        |       |        |  |
| 12'-5"                                                                                                | 344*              | N/A                   |       |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 19    | 1 7/8               | 3 1/4                                  | 22    | 2 1/2               | 4                           | 30    | 2 1/2               | 4                                   | 31    | 2 1/2               | 4                     | 5 3/4           | 12'-5"  |        |       |        |  |
| 13'-5"                                                                                                | 344*              | N/A                   |       |                     | 21                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 21    | 2 1/2               | 4                           | 29    | 2 1/2               | 4                                   | 30    | 2 1/2               | 4                     | 5 3/4           | 13'-5"  |        |       |        |  |
| 14'-5"                                                                                                | 344*              | N/A                   |       |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 35                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 28    | 2 1/2               | 4                                   | 29    | 2 1/2               | 4                     | 5 3/4           | 14'-5"  |        |       |        |  |
| 15'-5"                                                                                                | 344*              | N/A                   |       |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 33                                       |       | N/A                 |                                           | 17    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 27    | 2 1/2               | 4                                   | 28    | 2 1/2               | 4                     | 5 3/4           | 15'-5"  |        |       |        |  |
| 16'-5"                                                                                                | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 31                                       |       | N/A                 |                                           | 17    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 27    | 2 1/2               | 4                     | 5 3/4           | 16'-5"  |        |       |        |  |
| 17'-5"                                                                                                | 344               | N/A                   |       |                     | 21                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 22    | 2 1/2               | 4                           | 30    | 2 1/2               | 4                                   | 30    | 2 1/2               | 4                     | 5 3/4           | 17'-5"  |        |       |        |  |
| 18'-5"                                                                                                | 344               | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 22         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 12    | 1 7/8               | 3 1/4                                  | 17    | 2 1/2               | 4                           | 24    | 2 1/2               | 4                                   | 24    | 2 1/2               | 4                     | 5 3/4           | 18'-5"  |        |       |        |  |
| 19'-5"                                                                                                | 344               | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 29                                       |       | N/A                 |                                           | 7     | 1 7/8               | 3 1/4                                  | 15    | 2 1/2               | 4                           | 20    | 2 1/2               | 4                                   | 20    | 2 1/2               | 4                     | 5 3/4           | 19'-5"  |        |       |        |  |
| 20'-5"                                                                                                | 344               | N/A                   |       |                     | 11                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 31                                            |                                                  | 21                                       |       | N/A                 |                                           |       |                     |                                        | 13    | 2 1/2               | 4                           | 16    | 2 1/2               | 4                                   | 15    | 2 1/2               | 4                     | 5 3/4           | 20'-5"  |        |       |        |  |
| 21'-5"                                                                                                | 344               | N/A                   |       |                     | 8                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 11                  | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 12         | 3 1/2 | 4 3/4               | 24                                            |                                                  | 16                                       |       | N/A                 |                                           |       |                     |                                        | 11    | 2 1/2               | 4                           | 5     | 2 1/2               | 4                                   | 17    | 3 1/4               | 5                     | 36              | 2 1/2   | 4      | 5 3/4 | 21'-5" |  |
| 22'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 24          | 4 1/4 | 6 3/4               | 19                  | 4     | 6                   | 25         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 21                  | 3 7/8                                     | 6     | 12                  | 2 1/2                                  | 4     | 20                  | 3 3/4                       | 5 1/2 | 22                  | 4 1/4                               | 6 3/4 | 26                  | 4                     | 6 1/4           | 6 13/16 | 22'-5" |       |        |  |
| 23'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 24          | 4 1/4 | 6 3/4               | 19                  | 4     | 6                   | 25         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 21                  | 3 7/8                                     | 6     | 12                  | 2 1/2                                  | 4     | 20                  | 3 3/4                       | 5 1/2 | 22                  | 4 1/4                               | 6 3/4 | 26                  | 4                     | 6 1/4           | 6 13/16 | 23'-5" |       |        |  |
| 24'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 17                | 3 5/8 | 6                   | 16                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 22          | 4 1/4 | 6 3/4               | 17                  | 4     | 6                   | 22         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 18                  | 3 7/8                                     | 6     | 10                  | 2 1/2                                  | 4     | 19                  | 3 3/4                       | 5 1/2 | 20                  | 4 1/4                               | 6 3/4 | 24                  | 4                     | 6 1/4           | 6 13/16 | 24'-5" |       |        |  |
| 25'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 15                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 20         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 16                  | 3 7/8                                     | 6     |                     |                                        |       | 18                  | 3 3/4                       | 5 1/2 | 17                  | 4 1/4                               | 6 3/4 | 23                  | 4                     | 6 1/4           | 6 13/16 | 25'-5" |       |        |  |
| 26'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 11                | 3 5/8 | 6                   | 13                     | 3 3/4 | 6                   | 15                  | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 31                                       |       | 15                  | 3 7/8                                     | 6     |                     |                                        |       | 16                  | 3 3/4                       | 5 1/2 | 14                  | 4 1/4                               | 6 3/4 | 21                  | 4                     | 6 1/4           | 6 13/16 | 26'-5" |       |        |  |
| 27'-5"                                                                                                | 445               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 11                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 12                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 27                                       |       | 13                  | 3 7/8                                     | 6     |                     |                                        |       | 15                  | 3 3/4                       | 5 1/2 | 12                  | 4 1/4                               | 6 3/4 | 18                  | 4                     | 6 1/4           | 6 13/16 | 27'-5" |       |        |  |
| 28'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 35                                            |                                                  | 24                                       |       | 12                  | 3 7/8                                     | 6     |                     |                                        |       | 13                  | 3 3/4                       | 5 1/2 | 10                  | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 28'-5" |       |        |  |
| 29'-5"                                                                                                | 445               | 12                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 32                                            |                                                  | 22                                       |       | 10                  | 3 7/8                                     | 6     |                     |                                        |       | 9                   | 3 3/4                       | 5 1/2 | 9                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 29'-5" |       |        |  |
| 30'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 29                                            |                                                  | 20                                       |       | 10                  | 3 7/8                                     | 6     |                     |                                        |       | 9                   | 3 3/4                       | 5 1/2 | 9                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 30'-5" |       |        |  |
| 31'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 6                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 8                   | 4     | 6                   | 11         | 4 1/4 | 5 1/2               | 27                                            |                                                  | 18                                       |       | 9                   | 3 7/8                                     | 6     |                     |                                        |       | 9                   | 3 3/4                       | 5 1/2 | 9                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 31'-5" |       |        |  |
| 32'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     |       |                     | 16         | 5     | 6 1/4               | 36                                            |                                                  | 34                                       |       | 16                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 10                  | 4 1/2                       | 6     |                     |                                     |       | 18                  | 5 1/2                 | 8 1/2           | 6 7/8   | 32'-5" |       |        |  |
| 33'-5"                                                                                                | 446               | 16                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     |       |                     | 13         | 5     | 6 1/4               | 36                                            |                                                  | 32                                       |       | 11                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 9                   | 4 1/2                       | 6     |                     |                                     |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8   | 33'-5" |       |        |  |
| 34'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     |       |                     | 12         | 5     | 6 1/4               | 36                                            |                                                  | 29                                       |       | 10                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 8                   | 4 1/2                       | 6     |                     |                                     |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8   | 34'-5" |       |        |  |
| 35'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     |       |                     | 11         | 5     | 6 1/4               | 36                                            |                                                  | 27                                       |       | 10                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 7                   | 4 1/2                       | 6     |                     |                                     |       | 9                   | 5 1/2                 | 8 1/2           | 6 7/8   | 35'-5" |       |        |  |
| 36'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     |       |                     | 9          | 5     | 6 1/4               | 36</                                          |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |       |        |  |

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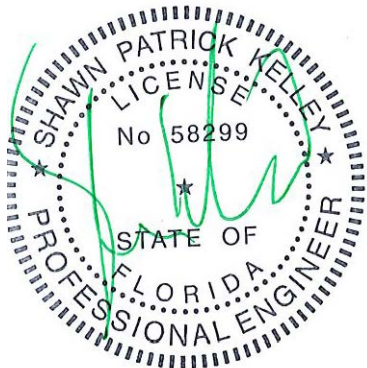
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| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.022 0.022 Minimum Thickness Galvanized or Stainless Steel - 30 PSF - Continued      |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |        |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--------|--------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |        |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |        |        |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |        |        |        |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 28                | 2 3/8 | 4                   | 27                     | 2 3/8 | 3 3/4               | 28                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 27                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 24    | 1 7/8               | 3 1/4                                  | 27    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 5'-5"  |        |        |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 25                | 2 3/8 | 4                   | 24                     | 2 3/8 | 3 3/4               | 25                  | 2 1/2 | 4                   | 33          | 2 1/2 | 4                   | 24                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 22    | 1 7/8               | 3 1/4                                  | 25    | 2 1/2               | 4                           | 35    | 2 1/2               | 4                                   | 35    | 2 1/2               | 4                     | 5 3/4           | 6'-5"  |        |        |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 20    | 1 7/8               | 3 1/4                                  | 23    | 2 1/2               | 4                           | 32    | 2 1/2               | 4                                   | 33    | 2 1/2               | 4                     | 5 3/4           | 7'-5"  |        |        |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 19    | 1 7/8               | 3 1/4                                  | 22    | 2 1/2               | 4                           | 30    | 2 1/2               | 4                                   | 31    | 2 1/2               | 4                     | 5 3/4           | 8'-5"  |        |        |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 20                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 29    | 2 1/2               | 4                                   | 29    | 2 1/2               | 4                     | 5 3/4           | 9'-5"  |        |        |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 33                                       |       | N/A                 |                                           | 17    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 27    | 2 1/2               | 4                                   | 28    | 2 1/2               | 4                     | 5 3/4           | 10'-5" |        |        |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 30                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 26    | 2 1/2               | 4                     | 5 3/4           | 11'-5" |        |        |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            |                                                  | 27                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 18    | 2 1/2               | 4                           | 25    | 2 1/2               | 4                                   | 25    | 2 1/2               | 4                     | 5 3/4           | 12'-5" |        |        |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 24         | 3 1/2 | 4 3/4               | 33                                            |                                                  | 25                                       |       | N/A                 |                                           | 15    | 1 7/8               | 3 1/4                                  | 17    | 2 1/2               | 4                           | 24    | 2 1/2               | 4                                   | 24    | 2 1/2               | 4                     | 5 3/4           | 13'-5" |        |        |
| 14'-5"                                                                                                | 344               |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 22                     | 2 3/8 | 3 3/4               | 23                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 22                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 23    | 2 1/2               | 4                           | 31    | 2 1/2               | 4                                   | 32    | 2 1/2               | 4                     | 5 3/4           | 14'-5" |        |        |
| 15'-5"                                                                                                | 344               |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 25         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 13    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 26    | 2 1/2               | 4                     | 5 3/4           | 15'-5" |        |        |
| 16'-5"                                                                                                | 344               |                       | N/A   |                     | 13                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 29                                       |       | N/A                 |                                           | 7     | 1 7/8               | 3 1/4                                  | 15    | 2 1/2               | 4                           | 20    | 2 1/2               | 4                                   | 20    | 2 1/2               | 4                     | 5 3/4           | 16'-5" |        |        |
| 17'-5"                                                                                                | 344               |                       | N/A   |                     | 10                | 2 3/8 | 4                   | 10                     | 2 3/8 | 3 3/4               | 12                  | 2 1/2 | 4                   | 15          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 28                                            |                                                  | 19                                       |       | N/A                 |                                           |       |                     |                                        |       | 12                  | 2 1/2                       | 4     | 5                   | 2 1/2                               | 4     | 18                  | 3 1/4                 | 5               | 5 3/4  | 17'-5" |        |
| 18'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 18                  | 4     | 6                   | 24         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 20    | 3 7/8               | 6                                         | 12    | 2 1/2               | 4                                      | 20    | 3 3/4               | 5 1/2                       | 22    | 4 1/4               | 6 3/4                               | 26    | 4                   | 6 1/4                 | 6 13/16         | 18'-5" |        |        |
| 19'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 18                  | 4     | 6                   | 24         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 20    | 3 7/8               | 6                                         | 12    | 2 1/2               | 4                                      | 20    | 3 3/4               | 5 1/2                       | 22    | 4 1/4               | 6 3/4                               | 26    | 4                   | 6 1/4                 | 6 13/16         | 19'-5" |        |        |
| 20'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 21         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 17    | 3 7/8               | 6                                         |       | N/A                 |                                        | 18    | 3 3/4               | 5 1/2                       | 19    | 4 1/4               | 6 3/4                               | 23    | 4                   | 6 1/4                 | 6 13/16         | 20'-5" |        |        |
| 21'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 11                | 3 5/8 | 6                   | 13                     | 3 3/4 | 6                   | 15                  | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 31                                       | 14    | 3 7/8               | 6                                         |       | N/A                 |                                        | 16    | 3 3/4               | 5 1/2                       | 14    | 4 1/4               | 6 3/4                               | 21    | 4                   | 6 1/4                 | 6 13/16         | 21'-5" |        |        |
| 22'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 26                                       | 12    | 3 7/8               | 6                                         |       | N/A                 |                                        | 14    | 3 3/4               | 5 1/2                       | 11    | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 22'-5" |        |        |
| 23'-5"                                                                                                | 445               | 12                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 32                                            |                                                  | 22                                       | 10    | 3 7/8               | 6                                         |       | N/A                 |                                        | 9     | 3 3/4               | 5 1/2                       | 9     | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 23'-5" |        |        |
| 24'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 12         | 4 1/4 | 5 1/2               | 28                                            |                                                  | 19                                       | 10    | 3 7/8               | 6                                         |       | N/A                 |                                        | 9     | 3 3/4               | 5 1/2                       | 9     | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 24'-5" |        |        |
| 25'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     |       |                     | 17         | 5     | 6 1/4               | 36                                            |                                                  | 35                                       | 16    | 5 1/8               | 7 7/8                                     |       | N/A                 |                                        | 10    | 4 1/2               | 6                           |       | N/A                 |                                     | 18    | 5 1/2               | 8 1/2                 | 6 7/8           | 25'-5" |        |        |
| 26'-5"                                                                                                | 446               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     |       |                     | 12         | 5     | 6 1/4               | 36                                            |                                                  | 31                                       | 11    | 5 1/8               | 7 7/8                                     |       | N/A                 |                                        | 9     | 4 1/2               | 6                           |       | N/A                 |                                     | 10    | 5 1/2               | 8 1/2                 | 6 7/8           | 26'-5" |        |        |
| 27'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     |       |                     | 11         | 5     | 6 1/4               | 36                                            |                                                  | 28                                       | 10    | 5 1/8               | 7 7/8                                     |       | N/A                 |                                        | 7     | 4 1/2               | 6                           |       | N/A                 |                                     | 10    | 5 1/2               | 8 1/2                 | 6 7/8           | 27'-5" |        |        |
| 28'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     |       |                     | 9          | 5     | 6 1/4               | 36                                            |                                                  | 25                                       | 9     | 5 1/8               | 7 7/8                                     |       | N/A                 |                                        | 6     | 4 1/2               | 6                           |       | N/A                 |                                     | 9     | 5 1/2               | 8 1/2                 | 6 7/8           | 28'-5" |        |        |
| 29'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 8           | 5     | 7                   |                     |       |                     | 6          | 5     | 6 1/4               | 33                                            |                                                  | 23                                       | 8     | 5 1/8               | 7 7/8                                     |       | N/A                 |                                        | 5     | 4 1/2               | 6                           |       | N/A                 |                                     | 8     | 5 1/2               | 8 1/2                 | 6 7/8           | 29'-5" |        |        |
| 30'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 7           | 5     | 7                   |                     |       |                     |            | N/A   |                     | 31                                            |                                                  | 21                                       | 7     | 5 1/8               | 7 7/8                                     |       | N/A                 |                                        |       | N/A                 |                             |       | N/A                 |                                     | 7     | 5 1/2               | 8 1/2                 | 6 7/8           | 30'-5" |        |        |
| 31'-5"                                                                                                | 548               | 16                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 18                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        |       | 14                  | 6 5/8                                         | 7 7/8                                            | 36                                       |       | 36                  | 18                                        | 5 3/4 | 8 3/4               |                                        | N/A   |                     | 11                          | 5 1/2 | 8                   |                                     | N/A   |                     | 25                    | 6 1/4           | 10     | 7 1/2  | 31'-5" |
| 32'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        |       | 13                  | 6 5/8                                         | 7 7/8                                            | 36                                       |       | 36                  | 17                                        | 5 3/4 | 8 3/4               |                                        | N/A   |                     | 10                          | 5 1/2 | 8                   |                                     | N/A   |                     | 24                    | 6 1/4           | 10     | 7 1/2  | 32'-5" |
| 33'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        |       | 13                  | 6 5/8                                         | 7 7/8                                            | 36                                       |       | 36                  | 12                                        | 5 3/4 | 8 3/4               |                                        | N/A   |                     | 9                           | 5 1/2 | 8                   |                                     | N/A   |                     | 11                    | 6 1/4           | 10     | 7 1/2  | 33'-5" |
| 34'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        |       | 12                  | 6 5/8                                         | 7 7/8                                            | 36                                       |       | 36                  | 12                                        | 5 3/4 | 8 3/4               |                                        | N/A   |                     | 8                           | 5 1/2 | 8                   |                                     | N/A   |                     | 11                    | 6 1/4           | 10     | 7 1/2  | 34'-5" |
| 35'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        |       | 11                  | 6 5/8                                         | 7 7/8                                            | 36                                       |       | 36                  | 11                                        | 5 3/4 | 8 3/4               |                                        | N/A   |                     | 7                           | 5 1/2 | 8                   |                                     | N/A   |                     | 10                    | 6 1/4           | 10     | 7 1/2  | 35'-5" |
| 36'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     |       |                     | N/A        |       | 9                   | 6 5/8                                         | 7 7/8                                            | 36                                       |       | 35                  | 10                                        | 5 3/4 | 8 3/4               |                                        | N/A   |                     | 6                           | 5 1/2 | 8                   |                                     | N/A   |                     | 9                     | 6 1/td          |        |        |        |

|      |                         |            |     |        |
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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.022, 0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                             |      |       |                                                                  |      |       |                 |         |                    |               |                       |              |                         |                            |                         |                            |                    |        |        |        |              |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|--------------------------|------|-------|-----------------------------|------|-------|------------------------------------------------------------------|------|-------|-----------------|---------|--------------------|---------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|--------------------|--------|--------|--------|--------------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                             |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |       |                 |         |                    |               |                       |              |                         |                            |                         |                            |                    |        |        |        |              |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |      |       | Simpson Strong-Tie Titen Stainless Steel                         |      |       | Through Bolting |         | Min. Edge Distance | Welded        |                       | Through Bolt |                         | Tapped Bolt                |                         |                            | Superimposed Loads |        |        |        | D.B.G. Up To |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                                                         | Dia. | Embed | Max O.C.        | Dia.    |                    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness      | Vx (+) | Vy (+) | Vx (-) | Vy (-)       |        |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/8  | 3     | 9                      | 1/2  | 2 1/2 | 9                     | 1/2  | 3 1/2 | 21          | 3/8  | 3 1/4 | 12                       | 1/2  | 3 1/2 | 21                          | 3/8  | 3 1/4 | 11                                                               | 1/2  | 3 1/2 | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 110    | 0      | 108          | 5'-5"  |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3     | 10                     | 5/8  | 3 3/8 | 13                    | 5/8  | 4 3/8 | 18          | 3/8  | 3 1/4 | 13                       | 5/8  | 4 1/2 | 17                          | 3/8  | 3 1/4 | 13                                                               | 5/8  | 4 1/2 | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 130    | 0      | 128          | 6'-5"  |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 3/8  | 3     | 9                      | 5/8  | 3 3/8 | 11                    | 5/8  | 4 3/8 | 15          | 3/8  | 3 1/4 | 15                       | 3/4  | 5 1/2 | 15                          | 3/8  | 3 1/4 | 9                                                                | 3/4  | 5 1/2 | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 150    | 0      | 148          | 7'-5"  |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3     |                        | N/A  |       | 10                    | 5/8  | 4 3/8 | 13          | 3/8  | 3 1/4 | 13                       | 3/4  | 5 1/2 | 13                          | 3/8  | 3 1/4 | 8                                                                | 3/4  | 5 1/2 | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 170    | 0      | 168          | 8'-5"  |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 5/8  | 4 3/8 | 12          | 3/8  | 3 1/4 |                          | N/A  |       | 12                          | 3/8  | 3 1/4 |                                                                  | N/A  |       | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 190    | 0      | 188          | 9'-5"  |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 |                          | N/A  |       | 11                          | 3/8  | 3 1/4 |                                                                  | N/A  |       | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 210    | 0      | 208          | 10'-5" |
| 11'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 3/4  | 5 1/4 | 10          | 3/8  | 3 1/4 |                          | N/A  |       | 10                          | 3/8  | 3 1/4 |                                                                  | N/A  |       | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 36                         | 3/16               | 0      | 230    | 0      | 228          | 11'-5" |
| 12'-5"                                                                                | 1 3/16                 | 0.407 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 10                                           | 3/8  | 3     | 10                     | 5/8  | 3 3/8 | 12                    | 5/8  | 4 3/8 | 20          | 3/8  | 3 1/4 | 13                       | 5/8  | 4 1/2 | 20                          | 3/8  | 3 1/4 | 12                                                               | 5/8  | 4 1/2 | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      | 35                         | 16                      | 13                         | 3/16               | 193    | 250    | 153    | 249          | 12'-5" |
| 13'-5"                                                                                | 1 5/16                 | 0.532 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 1/2  | 3 3/4 | 9                      | 5/8  | 3 3/8 | 11                    | 5/8  | 4 3/8 | 14          | 3/8  | 3 1/4 | 12                       | 5/8  | 4 1/2 | 14                          | 3/8  | 3 1/4 | 10                                                               | 5/8  | 4 1/2 | 8               | 3/8     | 5 3/4              | 28            | 36                    | 7/16" x 5/8" | 27                      | 21                         | 9                       | 8                          | 3/16               | 339    | 270    | 307    | 269          | 13'-5" |
| 14'-5"                                                                                | 1 3/8                  | 0.594 | CP0629          | 344            | 12                       | 3/8                        | 14                        | 8                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 3/4  | 5 1/4 |             | 3/8  | 3 1/4 |                          | N/A  |       | 12                          | 1/2  | 4 1/4 |                                                                  | N/A  |       | 8               | 3/8     | 5 3/4              | 18            | 32                    | 7/16" x 5/8" | 17                      | 12                         | 6                       | 5                          | 3/16               | 549    | 290    | 521    | 289          | 14'-5" |
| 15'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 12                        | 12                                           | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  |       | 12          | 1/2  | 4 1/4 |                          | N/A  |       | 9                           | 1/2  | 4 1/4 |                                                                  | N/A  |       | 8               | 3/8     | 5 3/4              | 15            | 27                    | 7/16" x 5/8" | 13                      | 9                          | 5                       | N/A                        | 3/16               | 665    | 310    | 642    | 309          | 15'-5" |
| 16'-5"                                                                                | 1 5/8                  | 0.844 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 12                                           | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  |       | 10          | 1/2  | 4 1/4 |                          | N/A  |       | 9                           | 1/2  | 4 1/4 |                                                                  | N/A  |       | 8               | 1/2     | 6 13/16            | 21            | 31                    | 9/16" x 3/4" | 28                      | 22                         | 10                      | 7                          | 1/4                | 773    | 328    | 756    | 329          | 16'-5" |
| 17'-5"                                                                                | 1 3/4                  | 0.969 | CP0629          | 445            | 10                       | 1/2                        | 17                        | 10                                           | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  |       | 9           | 1/2  | 4 1/4 |                          | N/A  |       | 8                           | 1/2  | 4 1/4 |                                                                  | N/A  |       | 8               | 1/2     | 6 13/16            | 18            | 28                    | 9/16" x 3/4" | 25                      | 19                         | 9                       | 6                          | 1/4                | 877    | 348    | 862    | 349          | 17'-5" |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 16                        | 10                                           | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  |       | 9           | 1/2  | 4 1/4 |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 1/2             | 6 13/16 | 17                 | 27            | 9/16" x 3/4"          | 23           | 17                      | 8                          | 6                       | 1/4                        | 932                | 368    | 920    | 369    | 18'-5"       |        |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 14                        | 8                                            | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  |       | 9           | 3/4  | 6 1/4 |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 1/2             | 6 13/16 | 14                 | 22            | 9/16" x 3/4"          | 19           | 13                      | 7                          | 5                       | 1/4                        | 1110               | 388    | 1097   | 389    | 19'-5"       |        |
| 20'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 1/2             | 6 13/16 | 12                 | 19            | 9/16" x 3/4"          | 15           | 10                      | 6                          | N/A                     | 1/4                        | 1282               | 408    | 1270   | 409    | 20'-5"       |        |
| 21'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 17                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 5/8             | 6 7/8   | 13                 | 20            | 11/16" x 7/8"         | 23           | 17                      | 8                          | 5                       | 5/16                       | 1451               | 428    | 1439   | 429    | 21'-5"       |        |
| 22'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 16                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 5/8             | 6 7/8   | 11                 | 18            | 11/16" x 7/8"         | 20           | 14                      | 7                          | 5                       | 5/16                       | 1617               | 448    | 1606   | 449    | 22'-5"       |        |
| 23'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 15                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 5/8             | 6 7/8   | 10                 | 16            | 11/16" x 7/8"         | 18           | 12                      | 6                          | N/A                     | 5/16                       | 1782               | 469    | 1771   | 470    | 23'-5"       |        |
| 24'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 5/8             | 6 7/8   | 9                  | 15            | 11/16" x 7/8"         | 16           | 11                      | 6                          | N/A                     | 5/16                       | 1947               | 489    | 1935   | 490    | 24'-5"       |        |
| 25'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 5/8             | 6 7/8   | 8                  | 14            | 11/16" x 7/8"         | 14           | 9                       | 5                          | N/A                     | 5/16                       | 2110               | 509    | 2099   | 510    | 25'-5"       |        |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 17                 | 20            | 7/8" x 1"             | 36           | 30                      | 13                         | 10                      | 3/8                        | 1850               | 528    | 1839   | 528    | 26'-5"       |        |
| 27'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 16                 | 18            | 7/8" x 1"             | 36           | 28                      | 12                         | 9                       | 3/8                        | 1990               | 548    | 1979   | 548    | 27'-5"       |        |
| 28'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 15                 | 17            | 7/8" x 1"             | 34           | 25                      | 12                         | 8                       | 3/8                        | 2131               | 568    | 2119   | 568    | 28'-5"       |        |
| 29'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 14                 | 16            | 7/8" x 1"             | 32           | 23                      | 11                         | 8                       | 3/8                        | 2271               | 588    | 2260   | 589    | 29'-5"       |        |
| 30'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 13                 | 15            | 7/8" x 1"             | 30           | 21                      | 10                         | 7                       | 3/8                        | 2413               | 609    | 2402   | 609    | 30'-5"       |        |
| 31'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 15                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 12                 | 14            | 7/8" x 1"             | 28           | 20                      | 10                         | 7                       | 3/8                        | 2555               | 629    | 2544   | 630    | 31'-5"       |        |
| 32'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 12                 | 13            | 7/8" x 1"             | 26           | 18                      | 9                          | 6                       | 3/8                        | 2698               | 649    | 2687   | 650    | 32'-5"       |        |
| 33'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 11                 | 13            | 7/8" x 1"             | 24           | 17                      | 9                          | 6                       | 3/8                        | 2842               | 670    | 2831   | 670    | 33'-5"       |        |
| 34'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 10                 | 12            | 7/8" x 1"             | 22           | 15                      | 8                          | 6                       | 3/8                        | 2987               | 690    | 2976   | 691    | 34'-5"       |        |
| 35'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 5                        | 3/4                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             | N/A  |       |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8     | 3/4             | 7 1/2   | 10                 | 11            | 7/8" x 1"             | 21           | 14                      | 8                          | 5                       | 3/8                        | 3134               | 711    | 3123   | 711    | 35'-5"       |        |



24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
MOUNTAINTOP, PA GOODYEAR, AZ  
  
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Unless otherwise specified,  
dimensions are in inches &  
tolerances are:  
  
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
SIZE: B  
SCALE: AS NOTED  
SHEET: 15/58  
DWG NO: ES-16-137-CIW

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF - Continued      |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |         |        |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|-------|-------------------------------------|---------|--------|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |         |        |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt TZ2 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |       | Simpson Titen HD Stainless<br>Steel |         |        | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |       |                                     |         |        |                       |                 |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36    | N/A                                              |          |                                          | 21                  | 1 7/8    | 3 1/4                                     | 23                  | 2 1/2    | 4                                      | 33                  | 2 1/2    | 4                           | 33                  | 2 1/2 | 4                                   | 5 3/4   | 5'-5"  |                       |                 |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36    | N/A                                              |          |                                          | 19                  | 1 7/8    | 3 1/4                                     | 22                  | 2 1/2    | 4                                      | 30                  | 2 1/2    | 4                           | 31                  | 2 1/2 | 4                                   | 5 3/4   | 6'-5"  |                       |                 |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 33         | 3 1/2 | 4 3/4               | 36                                            | 34    | N/A                                              |          |                                          | 18                  | 1 7/8    | 3 1/4                                     | 20                  | 2 1/2    | 4                                      | 28                  | 2 1/2    | 4                           | 28                  | 2 1/2 | 4                                   | 5 3/4   | 7'-5"  |                       |                 |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            | 30    | N/A                                              |          |                                          | 16                  | 1 7/8    | 3 1/4                                     | 19                  | 2 1/2    | 4                                      | 26                  | 2 1/2    | 4                           | 27                  | 2 1/2 | 4                                   | 5 3/4   | 8'-5"  |                       |                 |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            | 27    | N/A                                              |          |                                          | 16                  | 1 7/8    | 3 1/4                                     | 18                  | 2 1/2    | 4                                      | 25                  | 2 1/2    | 4                           | 25                  | 2 1/2 | 4                                   | 5 3/4   | 9'-5"  |                       |                 |
| 10'-5"                                                                                                | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            | 24    | N/A                                              |          |                                          | 15                  | 1 7/8    | 3 1/4                                     | 17                  | 2 1/2    | 4                                      | 23                  | 2 1/2    | 4                           | 24                  | 2 1/2 | 4                                   | 5 3/4   | 10'-5" |                       |                 |
| 11'-5"                                                                                                | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 29                                            | 22    | N/A                                              |          |                                          | 14                  | 1 7/8    | 3 1/4                                     | 16                  | 2 1/2    | 4                                      | 22                  | 2 1/2    | 4                           | 23                  | 2 1/2 | 4                                   | 5 3/4   | 11'-5" |                       |                 |
| 12'-5"                                                                                                | 344               | N/A                   |       |                     | 20                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            | 36    | N/A                                              |          |                                          | 16                  | 1 7/8    | 3 1/4                                     | 21                  | 2 1/2    | 4                                      | 29                  | 2 1/2    | 4                           | 29                  | 2 1/2 | 4                                   | 5 3/4   | 12'-5" |                       |                 |
| 13'-5"                                                                                                | 344               | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 22         | 3 1/2 | 4 3/4               | 36                                            | 36    | N/A                                              |          |                                          | 12                  | 1 7/8    | 3 1/4                                     | 17                  | 2 1/2    | 4                                      | 24                  | 2 1/2    | 4                           | 24                  | 2 1/2 | 4                                   | 5 3/4   | 13'-5" |                       |                 |
| 14'-5"                                                                                                | 344               | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 36                                            | 26    | N/A                                              |          |                                          | 6                   | 1 7/8    | 3 1/4                                     | 14                  | 2 1/2    | 4                                      | 19                  | 2 1/2    | 4                           | 18                  | 2 1/2 | 4                                   | 5 3/4   | 14'-5" |                       |                 |
| 15'-5"                                                                                                | 344               | N/A                   |       |                     | 10                | 2 3/8 | 4                   | 10                     | 2 3/8 | 4                   | 12                  | 2 1/2 | 4                   | 15          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 28                                            | 19    | N/A                                              |          |                                          |                     | N/A      |                                           | 12                  | 2 1/2    | 4                                      | 5                   | 2 1/2    | 4                           | 18                  | 3 1/4 | 5                                   | 5 3/4   | 15'-5" |                       |                 |
| 16'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 16                  | 4     | 6                   | 21         | 4 1/4 | 5 1/2               | 36                                            | 36    | 18                                               | 3 7/8    | 6                                        | 9                   | 2 1/2    | 4                                         | 18                  | 3 3/4    | 5 1/2                                  | 19                  | 4 1/4    | 6 3/4                       | 24                  | 4     | 6 1/4                               | 6 13/16 | 16'-5" |                       |                 |
| 17'-5"                                                                                                | 445               | 17                    | 3 7/8 | 6                   | 14                | 3 5/8 | 6                   | 14                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 20          | 4 1/4 | 6 3/4               | 14                  | 4     | 6                   | 19         | 4 1/4 | 5 1/2               | 36                                            | 35    | 16                                               | 3 7/8    | 6                                        |                     | N/A      |                                           | 17                  | 3 3/4    | 5 1/2                                  | 16                  | 4 1/4    | 6 3/4                       | 22                  | 4     | 6 1/4                               | 6 13/16 | 17'-5" |                       |                 |
| 18'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 12                | 3 5/8 | 6                   | 14                     | 3 3/4 | 6                   | 16                  | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 18         | 4 1/4 | 5 1/2               | 36                                            | 32    | 15                                               | 3 7/8    | 6                                        |                     | N/A      |                                           | 16                  | 3 3/4    | 5 1/2                                  | 14                  | 4 1/4    | 6 3/4                       | 21                  | 4     | 6 1/4                               | 6 13/16 | 18'-5" |                       |                 |
| 19'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            | 25    | 12                                               | 3 7/8    | 6                                        |                     | N/A      |                                           | 13                  | 3 3/4    | 5 1/2                                  | 10                  | 4 1/4    | 6 3/4                       | 7                   | 4     | 6 1/4                               | 6 13/16 | 19'-5" |                       |                 |
| 20'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 30                                            | 21    | 10                                               | 3 7/8    | 6                                        |                     | N/A      |                                           | 9                   | 3 3/4    | 5 1/2                                  | 9                   | 4 1/4    | 6 3/4                       | 7                   | 4     | 6 1/4                               | 6 13/16 | 20'-5" |                       |                 |
| 21'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 17         | 5     | 6 1/4               | 36                                            | 36    | 16                                               | 5 1/8    | 7 7/8                                    |                     | N/A      |                                           | 10                  | 4 1/2    | 6                                      |                     | N/A      |                             | 19                  | 5 1/2 | 8 1/2                               | 6 7/8   | 21'-5" |                       |                 |
| 22'-5"                                                                                                | 446               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            | 31    | 11                                               | 5 1/8    | 7 7/8                                    |                     | N/A      |                                           | 9                   | 4 1/2    | 6                                      |                     | N/A      |                             | 10                  | 5 1/2 | 8 1/2                               | 6 7/8   | 22'-5" |                       |                 |
| 23'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 10         | 5     | 6 1/4               | 36                                            | 27    | 9                                                | 5 1/8    | 7 7/8                                    |                     | N/A      |                                           | 7                   | 4 1/2    | 6                                      |                     | N/A      |                             | 9                   | 5 1/2 | 8 1/2                               | 6 7/8   | 23'-5" |                       |                 |
| 24'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 7          | 5     | 6 1/4               | 35                                            | 24    | 8                                                | 5 1/8    | 7 7/8                                    |                     | N/A      |                                           | 5                   | 4 1/2    | 6                                      |                     | N/A      |                             | 8                   | 5 1/2 | 8 1/2                               | 6 7/8   | 24'-5" |                       |                 |
| 25'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 8           | 5     | 7                   | N/A                 |       |                     | N/A        |       |                     | 31                                            | 21    | 7                                                | 5 1/8    | 7 7/8                                    |                     | N/A      |                                           | 7                   | 5 1/2    | 8 1/2                                  |                     | N/A      |                             | 7                   | 5 1/2 | 8 1/2                               | 6 7/8   | 25'-5" |                       |                 |
| 26'-5"                                                                                                | 548               | 16                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 11                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               | N/A                 |       | 14                  | 6 5/8      | 7 7/8 | 36                  | 36                                            | 18    | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          | 11                                        | 5 1/2               | 8        |                                        | N/A                 |          | 25                          | 6 1/4               | 10    | 7 1/2                               | 26'-5"  |        |                       |                 |
| 27'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   | N/A                    |       |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               | N/A                 |       | 13                  | 6 5/8      | 7 7/8 | 36                  | 36                                            | 16    | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          | 10                                        | 5 1/2               | 8        |                                        | N/A                 |          | 24                          | 6 1/4               | 10    | 7 1/2                               | 27'-5"  |        |                       |                 |
| 28'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   | N/A                    |       |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               | N/A                 |       | 13                  | 6 5/8      | 7 7/8 | 36                  | 36                                            | 12    | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          | 8                                         | 5 1/2               | 8        |                                        | N/A                 |          | 11                          | 6 1/4               | 10    | 7 1/2                               | 28'-5"  |        |                       |                 |
| 29'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   | N/A                    |       |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               | N/A                 |       | 11                  | 6 5/8      | 7 7/8 | 36                  | 36                                            | 11    | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          | 7                                         | 5 1/2               | 8        |                                        | N/A                 |          | 10                          | 6 1/4               | 10    | 7 1/2                               | 29'-5"  |        |                       |                 |
| 30'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       | 9                   | 6 5/8      | 7 7/8 | 36                  | 34                                            | 10    | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          | 6                                         | 5 1/2               | 8        |                                        | N/A                 |          | 9                           | 6 1/4               | 10    | 7 1/2                               | 30'-5"  |        |                       |                 |
| 31'-5"                                                                                                | 648               | 9                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               | N/A                 |       | 6                   | 6 5/8      | 7 7/8 | 36                  | 32                                            | 9     | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          | 5                                         | 5 1/2               | 8        |                                        | N/A                 |          | 8                           | 6 1/4               | 10    | 7 1/2                               | 31'-5"  |        |                       |                 |
| 32'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       | N/A                 |            |       | 36                  | 29                                            | 8     | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          |                                           | N/A                 |          |                                        | N/A                 |          | 7                           | 6 1/4               | 10    | 7 1/2                               | 32'-5"  |        |                       |                 |
| 33'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 6           | 6 1/4 | 8 1/8               | N/A                 |       | N/A                 |            |       | 36                  | 27                                            | 7     | 5 3/4                                            | 8 3/4    |                                          | N/A                 |          |                                           | N/A                 |          |                                        | N/A                 |          | 6                           | 6 1/4               | 10    | 7 1/2                               | 33'-5"  |        |                       |                 |
| 34'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       | N/A                 |            |       | 36                  | 25                                            |       | N/A                                              |          |                                          | N/A                 |          |                                           | N/A                 |          |                                        | N/A                 |          | 5                           | 6 1/4               | 10    | 7 1/2                               | 34'-5"  |        |                       |                 |
| 35'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | N/A         |       |                     | N/A                 |       | N/A                 |            |       | 34                  | 23                                            |       | N/A                                              |          |                                          | N/A                 |          |                                           | N/A                 |          |                                        | N/A                 |          |                             | N/A                 |       | 7 1/2                               | 35'-5"  |        |                       |                 |



24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
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Unless otherwise specified,  
dimensions are in inches &  
tolerances are:

0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
SIZE: B  
SCALE: AS NOTED  
SHEET: 16/58

DWG NO: ES-16-137-CIW

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED



|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 60 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |                           |          |      |                       |          |      |             |          |      |                             |          |      |                                |          |      |                                             |          |      |                                                                  |          |                       |         |                  |                          |               |                            |                               |                            |                               |                  |                    |        |        |        |                 |
|--------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|---------------------------|----------|------|-----------------------|----------|------|-------------|----------|------|-----------------------------|----------|------|--------------------------------|----------|------|---------------------------------------------|----------|------|------------------------------------------------------------------|----------|-----------------------|---------|------------------|--------------------------|---------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|--------------------|--------|--------|--------|-----------------|
| Guide Construction                                                                   |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |                           |          |      |                       |          |      |             |          |      |                             |          |      |                                |          |      |                                             |          |      | Steel (Wall anchors are the same diameter as assembly fasteners) |          |                       |         |                  |                          |               |                            |                               |                            |                               |                  |                    |        |        |        |                 |
| D.B.G.<br>Up To                                                                      | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T2Z<br>Carbon & Stainless Steel |      | Powers Power-Stud+<br>SD1 |          |      | Simpson Strong-Bolt 2 |          |      | Hilti KH-EZ |          |      | Simpson Strong-Tie<br>Titan |          |      | Hilti KH-EZ Stainless<br>Steel |          |      | Simpson Strong-Tie<br>Titan Stainless Steel |          |      | Through<br>Bolting                                               |          | Min. Edge<br>Distance | Welded  |                  | Through Bolt             |               |                            | Tapped Bolt                   |                            |                               |                  | Superimposed Loads |        |        |        | D.B.G.<br>Up To |
|                                                                                      |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed                     | Max O.C. | Dia. | Embed                 | Max O.C. | Dia. | Embed       | Max O.C. | Dia. | Embed                       | Max O.C. | Dia. | Embed                          | Max O.C. | Dia. | Embed                                       | Max O.C. | Dia. | Embed                                                            | Max O.C. |                       | Dia.    | Slot Max<br>O.C. | Heel and Toe<br>Max O.C. | Slot Size     | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+)             | Vy (+) | Vx (-) | Vy (-) |                 |
| 5'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3                         | 8        | 5/8  | 3 3/8                 | 10       | 5/8  | 4 3/8       | 14       | 3/8  | 3 1/4                       | 13       | 3/4  | 5 1/2                          | 14       | 3/8  | 3 1/4                                       | 8        | 3/4  | 5 1/2                                                            | 8        | 3/8                   | 5 3/4   | 36               | 36                       | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16             | 0                  | 165    | 0      | 163    | 5'-5"           |
| 6'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 5/8  | 4 1/2                     |          | N/A  |                       | 8        | 5/8  | 4 3/8       | 12       | 3/8  | 3 1/4                       |          | N/A  |                                | 11       | 3/8  | 3 1/4                                       |          | N/A  |                                                                  | 8        | 3/8                   | 5 3/4   | 36               | 36                       | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16             | 0                  | 195    | 0      | 193    | 6'-5"           |
| 7'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2                     |          | N/A  |                       | 8        | 3/4  | 5 1/4       | 10       | 3/8  | 3 1/4                       |          | N/A  |                                | 10       | 3/8  | 3 1/4                                       |          | N/A  |                                                                  | 8        | 3/8                   | 5 3/4   | 36               | 36                       | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16             | 0                  | 225    | 0      | 223    | 7'-5"           |
| 8'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 15                                              | 3/4  | 5 1/2                     |          | N/A  |                       |          | N/A  |             | 9        | 3/8  | 3 1/4                       |          | N/A  |                                | 12       | 1/2  | 4 1/4                                       |          | N/A  |                                                                  | 8        | 3/8                   | 5 3/4   | 36               | 36                       | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16             | 0                  | 255    | 0      | 253    | 8'-5"           |
| 9'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/4  | 5 1/2                     |          | N/A  |                       |          | N/A  |             | 8        | 3/8  | 3 1/4                       |          | N/A  |                                | 11       | 1/2  | 4 1/4                                       |          | N/A  |                                                                  | 8        | 3/8                   | 5 3/4   | 36               | 36                       | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16             | 0                  | 285    | 0      | 283    | 9'-5"           |
| 11'-5"                                                                               | 1 1/16                    | 0.282 | CP0629          | 344               | 10                          | 3/8                              | 11                              | 10                                              | 3/4  | 5 1/2                     |          | N/A  |                       |          | N/A  |             | 9        | 1/2  | 4 1/4                       |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/8                   | 5 3/4   | 12               | 21                       | 7/16" x 5/8"  | 10                         | 6                             | N/A                        | N/A                           | 3/16             | 808                | 345    | 748    | 344    | 11'-5"          |
| 12'-5"                                                                               | 1 5/16                    | 0.469 | CP0630 & CP0647 | DC4               | 12                          | 1/2                              | 18                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             | 8        | 1/2  | 4 1/4                       |          | N/A  |                                | 8        | 1/2  | 4 1/4                                       |          | N/A  |                                                                  | 8        | 1/2                   | 6 1/4   | 12               | 12                       | 9/16" x 3/4"  | 12                         | 7                             | 12                         | 7                             | 1/4              | 915                | 406    | 870    | 405    | 12'-5"          |
| 13'-5"                                                                               | 1 3/16                    | 0.344 | CP0630 & CP0647 | 445               | 8                           | 1/2                              | 11                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 1/2                   | 6 13/16 | 10               | 15                       | 9/16" x 3/4"  | 12                         | 8                             | 5                          | N/A                           | 1/4              | 1538               | 405    | 1495   | 406    | 13'-5"          |
| 14'-5"                                                                               | 1 1/4                     | 0.406 | CP0630 & CP0647 | 446               | 6                           | 5/8                              | 16                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 5/8                   | 6 7/8   | 10               | 16                       | 11/16" x 7/8" | 18                         | 13                            | 6                          | 5                             | 5/16             | 1737               | 436    | 1698   | 437    | 14'-5"          |
| 15'-5"                                                                               | 1 3/8                     | 0.531 | CP0630 & CP0647 | 446               | 6                           | 5/8                              | 16                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 5/8                   | 6 7/8   | 10               | 16                       | 11/16" x 7/8" | 18                         | 13                            | 6                          | N/A                           | 5/16             | 1756               | 465    | 1723   | 466    | 15'-5"          |
| 16'-5"                                                                               | 1 7/16                    | 0.594 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 5/8                   | 6 7/8   | 9                | 15                       | 11/16" x 7/8" | 16                         | 11                            | 6                          | N/A                           | 5/16             | 1945               | 495    | 1915   | 496    | 16'-5"          |
| 17'-5"                                                                               | 1 1/2                     | 0.656 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 5/8                   | 6 7/8   | 8                | 13                       | 11/16" x 7/8" | 14                         | 9                             | 5                          | N/A                           | 5/16             | 2122               | 525    | 2095   | 527    | 17'-5"          |
| 18'-5"                                                                               | 1 5/8                     | 0.781 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 12                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 5/8                   | 6 7/8   | 8                | 13                       | 11/16" x 7/8" | 13                         | 9                             | 5                          | N/A                           | 5/16             | 2171               | 555    | 2147   | 556    | 18'-5"          |
| 19'-5"                                                                               | 1 3/4                     | 0.906 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 14               | 16                       | 7/8" x 1"     | 32                         | 23                            | 11                         | 8                             | 3/8              | 2245               | 585    | 2215   | 586    | 19'-5"          |
| 20'-5"                                                                               | 1 7/8                     | 1.031 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 14               | 15                       | 7/8" x 1"     | 31                         | 22                            | 11                         | 8                             | 3/8              | 2315               | 615    | 2288   | 615    | 20'-5"          |
| 21'-5"                                                                               | 2                         | 1.156 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 13               | 15                       | 7/8" x 1"     | 30                         | 21                            | 10                         | 7                             | 3/8              | 2390               | 644    | 2366   | 645    | 21'-5"          |
| 22'-5"                                                                               | 2 1/8                     | 1.281 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 13               | 14                       | 7/8" x 1"     | 29                         | 20                            | 10                         | 7                             | 3/8              | 2468               | 674    | 2446   | 674    | 22'-5"          |
| 23'-5"                                                                               | 2 1/4                     | 1.406 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 15                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 12               | 14                       | 7/8" x 1"     | 28                         | 19                            | 10                         | 7                             | 3/8              | 2547               | 703    | 2527   | 704    | 23'-5"          |
| 24'-5"                                                                               | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 12               | 14                       | 7/8" x 1"     | 28                         | 20                            | 10                         | 7                             | 3/8              | 2510               | 732    | 2494   | 733    | 24'-5"          |
| 25'-5"                                                                               | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 12               | 13                       | 7/8" x 1"     | 26                         | 18                            | 9                          | 6                             | 3/8              | 2709               | 762    | 2693   | 763    | 25'-5"          |
| 26'-5"                                                                               | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 12                              |                                                 |      |                           |          | N/A  |                       |          | N/A  |             |          | N/A  |                             |          | N/A  |                                |          | N/A  |                                             |          | N/A  |                                                                  | 8        | 3/4                   | 7 1/2   | 11               | 12                       | 7/8" x 1"     | 23                         | 16                            | 8                          | 6                             | 3/8              | 2908               | 793    | 2892   | 793    | 26'-5"          |

| CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 60 PSF - Continued      |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |    |                                     |       |       |                       |                 |         |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|----|-------------------------------------|-------|-------|-----------------------|-----------------|---------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |    |                                     |       |       |                       |                 |         |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T2Z |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt T2Z Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |    | Simpson Titen HD Stainless<br>Steel |       |       | Min. Edge<br>Distance | D.B.G.<br>Up To |         |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |    |                                     |       |       |                       |                 |         |        |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 30         | 3 1/2 | 4 3/4               |                                               | 36    |                                                  | 31       |                                          |                     | N/A      |                                           |                     | 17       | 1 7/8                                  | 3 1/4               | 19       | 2 1/2                       | 4                   | 27 | 2 1/2                               | 4     | 27    | 2 1/2                 | 4               | 5 3/4   | 5'-5"  |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 25         | 3 1/2 | 4 3/4               |                                               | 34    |                                                  | 26       |                                          |                     | N/A      |                                           |                     | 15       | 1 7/8                                  | 3 1/4               | 17       | 2 1/2                       | 4                   | 24 | 2 1/2                               | 4     | 25    | 2 1/2                 | 4               | 5 3/4   | 6'-5"  |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 22         | 3 1/2 | 4 3/4               |                                               | 29    |                                                  | 23       |                                          |                     | N/A      |                                           |                     | 14       | 1 7/8                                  | 3 1/4               | 16       | 2 1/2                       | 4                   | 23 | 2 1/2                               | 4     | 23    | 2 1/2                 | 4               | 5 3/4   | 7'-5"  |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 15                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 19         | 3 1/2 | 4 3/4               |                                               | 26    |                                                  | 20       |                                          |                     | N/A      |                                           |                     | 13       | 1 7/8                                  | 3 1/4               | 15       | 2 1/2                       | 4                   | 21 | 2 1/2                               | 4     | 22    | 2 1/2                 | 4               | 5 3/4   | 8'-5"  |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 14                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               |                                               | 23    |                                                  | 18       |                                          |                     | N/A      |                                           |                     | 13       | 1 7/8                                  | 3 1/4               | 14       | 2 1/2                       | 4                   | 20 | 2 1/2                               | 4     | 20    | 2 1/2                 | 4               | 5 3/4   | 9'-5"  |
| 11'-5"                                                                                                | 344               |                       | N/A   |                     | 5                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 5                   | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 10         | 3 1/2 | 4 3/4               |                                               | 23    |                                                  | 15       |                                          |                     | N/A      |                                           |                     |          | 5                                      | 2 1/2               | 4        | 5                           | 2 1/2               | 4  | 6                                   | 3 1/4 | 5     | 5 3/4                 | 11'-5"          |         |        |
| 12'-5"                                                                                                | DC4               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               |                                               | 36    |                                                  | 18       |                                          | 13                  | 3 7/8    | 6                                         |                     | N/A      |                                        |                     | 9        | 3 3/4                       | 5 1/2               | 9  | 4 1/4                               | 6 3/4 | 7     | 4                     | 6 1/4           | 5 3/4   | 12'-5" |
| 13'-5"                                                                                                | 445               | 9                     | 3 7/8 | 6                   | 5                 | 3 5/8 | 6                   | 7                      | 3 3/4 | 6                   | 5                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 7                   | 4     | 6                   | 7          | 4 1/4 | 5 1/2               |                                               | 25    |                                                  | 17       |                                          | 8                   | 3 7/8    | 6                                         |                     | N/A      |                                        |                     | 7        | 3 3/4                       | 5 1/2               | 7  | 4 1/4                               | 6 3/4 | 6     | 4                     | 6 1/4           | 6 13/16 | 13'-5" |
| 14'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 11         | 5     | 6 1/4               |                                               | 36    |                                                  | 30       |                                          | 10                  | 5 1/8    | 7 7/8                                     |                     | N/A      |                                        |                     | 8        | 4 1/2                       | 6                   |    | N/A                                 |       | 10    | 5 1/2                 | 8 1/2           | 6 7/8   | 14'-5" |
| 15'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 11         | 5     | 6 1/4               |                                               | 36    |                                                  | 29       |                                          | 10                  | 5 1/8    | 7 7/8                                     |                     | N/A      |                                        |                     | 7        | 4 1/2                       | 6                   |    | N/A                                 |       | 9     | 5 1/2                 | 8 1/2           | 6 7/8   | 15'-5" |
| 16'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 7          | 5     | 6 1/4               |                                               | 36    |                                                  | 25       |                                          | 8                   | 5 1/8    | 7 7/8                                     |                     | N/A      |                                        |                     | 5        | 4 1/2                       | 6                   |    | N/A                                 |       | 8     | 5 1/2                 | 8 1/2           | 6 7/8   | 16'-5" |
| 17'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 7           | 5     | 7                   |                     | N/A   |                     |            | N/A   |                     |                                               | 32    |                                                  | 21       |                                          | 7                   | 5 1/8    | 7 7/8                                     |                     | N/A      |                                        |                     |          | N/A                         |                     |    | 7                                   | 5 1/2 | 8 1/2 | 6 7/8                 | 17'-5"          |         |        |
| 18'-5"                                                                                                | 546               | 7                     | 5 1/8 | 7 7/8               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 7           | 5     | 7                   |                     | N/A   |                     |            | N/A   |                     |                                               | 30    |                                                  | 20       |                                          |                     | N/A      |                                           |                     |          | N/A                                    |                     |          |                             | N/A                 |    |                                     | 6     | 5 1/2 | 8 1/2                 | 6 7/8           | 18'-5"  |        |
| 19'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 11         | 6 5/8 | 7 7/8               |                                               | 36    |                                                  | 36       |                                          | 11                  | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     | 8        | 5 1/2                       | 8                   |    | N/A                                 |       | 10    | 6 1/4                 | 10              | 7 1/2   | 19'-5" |
| 20'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 10         | 6 5/8 | 7 7/8               |                                               | 36    |                                                  | 36       |                                          | 11                  | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     | 7        | 5 1/2                       | 8                   |    | N/A                                 |       | 10    | 6 1/4                 | 10              | 7 1/2   | 20'-5" |
| 21'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 9          | 6 5/8 | 7 7/8               |                                               | 36    |                                                  | 36       |                                          | 10                  | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     | 6        | 5 1/2                       | 8                   |    | N/A                                 |       | 9     | 6 1/4                 | 10              | 7 1/2   | 21'-5" |
| 22'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 8          | 6 5/8 | 7 7/8               |                                               | 36    |                                                  | 34       |                                          | 10                  | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     | 6        | 5 1/2                       | 8                   |    | N/A                                 |       | 9     | 6 1/4                 | 10              | 7 1/2   | 22'-5" |
| 23'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 6          | 6 5/8 | 7 7/8               |                                               | 36    |                                                  | 32       |                                          | 9                   | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     | 5        | 5 1/2                       | 8                   |    | N/A                                 |       | 8     | 6 1/4                 | 10              | 7 1/2   | 23'-5" |
| 24'-5"                                                                                                | 648               | 9                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 6          | 6 5/8 | 7 7/8               |                                               | 36    |                                                  | 32       |                                          | 9                   | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     | 5        | 5 1/2                       | 8                   |    | N/A                                 |       | 8     | 6 1/4                 | 10              | 7 1/2   | 24'-5" |
| 25'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     |                                               | 36    |                                                  | 28       |                                          | 8                   | 5 3/4    | 8 3/4                                     |                     | N/A      |                                        |                     |          | N/A                         |                     |    | 7                                   | 6 1/4 | 10    | 7 1/2                 | 25'-5"          |         |        |
| 26'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 5           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     |                                               | 36    |                                                  | 26       |                                          |                     | N/A      |                                           |                     |          | N/A                                    |                     |          |                             | N/A                 |    |                                     | 5     | 6 1/4 | 10                    | 7 1/2           | 26'-5"  |        |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
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| CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |                       |          |       |             |          |       |                                             |          |       |                                |          |                                                                  |       |                    |       |                       |        |          |              |       |               |                          |           |                            |                               |                            |                               |                  |                 |        |        |
|--------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-----------------------|----------|-------|-------------|----------|-------|---------------------------------------------|----------|-------|--------------------------------|----------|------------------------------------------------------------------|-------|--------------------|-------|-----------------------|--------|----------|--------------|-------|---------------|--------------------------|-----------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|-----------------|--------|--------|
| Guide Construction                                                                   |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |                       |          |       |             |          |       |                                             |          |       |                                |          | Steel (Wall anchors are the same diameter as assembly fasteners) |       |                    |       |                       |        |          |              |       |               |                          |           |                            |                               |                            |                               |                  |                 |        |        |
| D.B.G.<br>Up To                                                                      | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      | Simpson Strong-Bolt 2 |          |       | Hilti KH-EZ |          |       | Simpson Strong-Tie<br>Titen Stainless Steel |          |       | Hilti KH-EZ Stainless<br>Steel |          | Simpson Strong-Tie<br>Titen Stainless Steel                      |       | Through<br>Bolting |       | Min. Edge<br>Distance | Welded |          | Through Bolt |       |               | Tapped Bolt              |           |                            | Superimposed Loads            |                            |                               |                  | D.B.G.<br>Up To |        |        |
|                                                                                      |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed                 | Max O.C. | Dia.  | Embed       | Max O.C. | Dia.  | Embed                                       | Max O.C. | Dia.  | Embed                          | Max O.C. | Dia.                                                             | Embed | Max O.C.           | Dia.  |                       | Embed  | Max O.C. | Dia.         | Embed | Max O.C.      | Heel and Toe<br>Max O.C. | Slot Size | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Min<br>Thickness |                 | Vx (+) | Vy (+) |
| 5'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4 | N/A                       |      | 9                     | 5/8      | 4 3/8 | 13          | 3/8      | 3 1/4 | 12                                          | 3/4      | 5 1/2 | 13                             | 3/8      | 3 1/4                                                            | 8     | 3/4                | 5 1/2 | 8                     | 3/8    | 5 3/4    | 36           | 36    | 7/16" x 5/8"  | 36                       | 36        | 36                         | 36                            | 3/16                       | 0                             | 179              | 0               | 176    | 5'-5"  |
| 6'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8  | 4 1/2 | N/A                       |      | 8                     | 5/8      | 4 3/8 | 11          | 3/8      | 3 1/4 | N/A                                         |          |       | 10                             | 3/8      | 3 1/4                                                            | N/A   |                    |       | 8                     | 3/8    | 5 3/4    | 36           | 36    | 7/16" x 5/8"  | 36                       | 36        | 36                         | 36                            | 3/16                       | 0                             | 211              | 0               | 209    | 6'-5"  |
| 7'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      | 8                     | 3/4      | 5 1/4 | 9           | 3/8      | 3 1/4 | N/A                                         |          |       | 9                              | 3/8      | 3 1/4                                                            | N/A   |                    |       | 8                     | 3/8    | 5 3/4    | 36           | 36    | 7/16" x 5/8"  | 36                       | 36        | 36                         | 36                            | 3/16                       | 0                             | 244              | 0               | 241    | 7'-5"  |
| 8'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2 | N/A                       |      | N/A                   |          |       | 8           | 3/8      | 3 1/4 | N/A                                         |          |       | 11                             | 1/2      | 4 1/4                                                            | N/A   |                    |       | 8                     | 3/8    | 5 3/4    | 36           | 36    | 7/16" x 5/8"  | 36                       | 36        | 36                         | 36                            | 3/16                       | 0                             | 276              | 0               | 274    | 8'-5"  |
| 9'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/4  | 5 1/2 | N/A                       |      | N/A                   |          |       | 12          | 1/2      | 4 1/4 | N/A                                         |          |       | 10                             | 1/2      | 4 1/4                                                            | N/A   |                    |       | 8                     | 3/8    | 5 3/4    | 36           | 36    | 7/16" x 5/8"  | 36                       | 36        | 34                         | 36                            | 3/16                       | 0                             | 309              | 0               | 306    | 9'-5"  |
| 12'-5"                                                                               | 1 5/16                    | 0.469 | CP0630 & CP0647 | DC4               | 12                          | 1/2                              | 18                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | 8           | 1/2      | 4 1/4 | N/A                                         |          |       | 8                              | 1/2      | 4 1/4                                                            | N/A   |                    |       | 8                     | 1/2    | 6 1/4    | 12           | 12    | 9/16" x 3/4"  | 12                       | 7         | 12                         | 7                             | 1/4                        | 915                           | 406              | 870             | 405    | 12'-5" |
| 13'-5"                                                                               | 1 3/16                    | 0.344 | CP0630 & CP0647 | 446               | 6                           | 5/8                              | 16                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 5/8    | 6 7/8    | 10           | 16    | 11/16" x 7/8" | 18                       | 13        | 6                          | N/A                           | 5/16                       | 1755                          | 440              | 1709            | 440    | 13'-5" |
| 14'-5"                                                                               | 1 1/4                     | 0.406 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 15                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 5/8    | 6 7/8    | 9            | 14    | 11/16" x 7/8" | 16                       | 11        | 6                          | N/A                           | 5/16                       | 1958                          | 472              | 1917            | 473    | 14'-5" |
| 15'-5"                                                                               | 1 5/16                    | 0.469 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 5/8    | 6 7/8    | 8            | 13    | 11/16" x 7/8" | 14                       | 9         | 5                          | N/A                           | 5/16                       | 2150                          | 505              | 2113            | 506    | 15'-5" |
| 16'-5"                                                                               | 1 3/8                     | 0.531 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 13           | 15    | 7/8" x 1"     | 31                       | 22        | 11                         | 7                             | 3/8                        | 2348                          | 539              | 2300            | 539    | 16'-5" |
| 17'-5"                                                                               | 1 7/16                    | 0.594 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 13           | 14    | 7/8" x 1"     | 28                       | 20        | 10                         | 7                             | 3/8                        | 2521                          | 571              | 2477            | 572    | 17'-5" |
| 18'-5"                                                                               | 1 1/2                     | 0.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 12           | 13    | 7/8" x 1"     | 26                       | 18        | 9                          | 6                             | 3/8                        | 2687                          | 604              | 2646            | 604    | 18'-5" |
| 19'-5"                                                                               | 1 1/2                     | 0.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 10           | 12    | 7/8" x 1"     | 22                       | 15        | 8                          | 6                             | 3/8                        | 3006                          | 638              | 2966            | 638    | 19'-5" |
| 20'-5"                                                                               | 1 5/8                     | 0.781 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 10           | 12    | 7/8" x 1"     | 22                       | 15        | 8                          | 6                             | 3/8                        | 3003                          | 669              | 2967            | 670    | 20'-5" |
| 21'-5"                                                                               | 1 3/4                     | 0.906 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 10           | 12    | 7/8" x 1"     | 22                       | 15        | 8                          | 6                             | 3/8                        | 3027                          | 701              | 2995            | 702    | 21'-5" |
| 22'-5"                                                                               | 1 7/8                     | 1.031 | CP0630 & CP0647 | 648               | 5                           | 3/4                              | 13                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 10           | 12    | 7/8" x 1"     | 22                       | 15        | 8                          | 6                             | 3/8                        | 3068                          | 733              | 3039            | 733    | 22'-5" |
| 23'-5"                                                                               | 2                         | 1.156 | CP0630 & CP0647 | 648               | 5                           | 3/4                              | 12                              |                                                 |      |       | N/A                       |      | N/A                   |          |       | N/A         |          |       | N/A                                         |          |       | N/A                            |          |                                                                  | N/A   |                    |       | 8                     | 3/4    | 7 1/2    | 10           | 11    | 7/8" x 1"     | 21                       | 14        | 8                          | 5                             | 3/8                        | 3120                          | 765              | 3094            | 765    | 23'-5" |

| CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued      |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |        |                     |                       |                 |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|--------|---------------------|-----------------------|-----------------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |        |                     |                       |                 |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt T22 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |        |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed  | Min. Wall<br>Thick. |                       |                 |        |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 27         | 3 1/2 | 4 3/4               | 36                                            | 29                                               | N/A                                      |       |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 26                                  | 2 1/2  | 4                   | 5 3/4                 | 5'-5"           |        |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            | 24                                               | N/A                                      |       |                     | 15                                        | 1 7/8 | 3 1/4               | 17                                     | 2 1/2 | 4                   | 23                          | 2 1/2 | 4                   | 24                                  | 2 1/2  | 4                   | 5 3/4                 | 6'-5"           |        |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 27                                            | 21                                               | N/A                                      |       |                     | 14                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 22                                  | 2 1/2  | 4                   | 5 3/4                 | 7'-5"           |        |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 24                                            | 18                                               | N/A                                      |       |                     | 13                                        | 1 7/8 | 3 1/4               | 15                                     | 2 1/2 | 4                   | 20                          | 2 1/2 | 4                   | 21                                  | 2 1/2  | 4                   | 5 3/4                 | 8'-5"           |        |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 21                                            | 16                                               | N/A                                      |       |                     | 12                                        | 1 7/8 | 3 1/4               | 14                                     | 2 1/2 | 4                   | 19                          | 2 1/2 | 4                   | 20                                  | 2 1/2  | 4                   | 5 3/4                 | 9'-5"           |        |
| 12'-5"                                                                                                | DC4               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            | 18                                               | 13                                       | 3 7/8 | 6                   | N/A                                       |       |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4      | 6 1/4               | 5 3/4                 | 12'-5"          |        |
| 13'-5"                                                                                                | 446               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   | N/A                 |       |                     | 10         | 5     | 6 1/4               | 36                                            | 30                                               | 9                                        | 5 1/8 | 7 7/8               | N/A                                       |       |                     | 7                                      | 4 1/2 | 6                   | N/A                         |       |                     | 9                                   | 5 1/2  | 8 1/2               | 6 7/8                 | 13'-5"          |        |
| 14'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 9           | 5     | 7                   | N/A                 |       |                     | 7          | 5     | 6 1/4               | 36                                            | 25                                               | 8                                        | 5 1/8 | 7 7/8               | N/A                                       |       |                     | 5                                      | 4 1/2 | 6                   | N/A                         |       |                     | 8                                   | 5 1/2  | 8 1/2               | 6 7/8                 | 14'-5"          |        |
| 15'-5"                                                                                                | 546               | 7                     | 5 1/8 | 7 7/8               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 7           | 5     | 7                   | N/A                 |       |                     | N/A        |       |                     | 32                                            | 21                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | N/A                         |       |                     | 6                                   | 5 1/2  | 8 1/2               | 6 7/8                 | 15'-5"          |        |
| 16'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               | N/A                 |       |                     | 10         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 11                                       | 5 3/4 | 8 3/4               | N/A                                       |       |                     | 7                                      | 5 1/2 | 8                   | N/A                         |       |                     | 10                                  | 6 1/4  | 10                  | 7 1/2                 | 16'-5"          |        |
| 17'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 8          | 6 5/8 | 7 7/8               | 36                                            | 35                                               | 10                                       | 5 3/4 | 8 3/4               | N/A                                       |       |                     | 6                                      | 5 1/2 | 8                   | N/A                         |       |                     | 8                                   | 6 1/4  | 10                  | 7 1/2                 | 17'-5"          |        |
| 18'-5"                                                                                                | 548               | 8                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 6                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 5          | 6 5/8 | 7 7/8               | 36                                            | 32                                               | 8                                        | 5 3/4 | 8 3/4               | N/A                                       |       |                     | N/A                                    |       |                     | 7                           | 6 1/4 | 10                  | 7 1/2                               | 18'-5" |                     |                       |                 |        |
| 19'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            | 27                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | N/A                         |       |                     | 5                                   | 6 1/4  | 10                  | 7 1/2                 | 19'-5"          |        |
| 20'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            | 26                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | N/A                         |       |                     | 5                                   | 6 1/4  | 10                  | 7 1/2                 | 20'-5"          |        |
| 21'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            | 26                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | N/A                         |       |                     | 5                                   | 6 1/4  | 10                  | 7 1/2                 | 21'-5"          |        |
| 22'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            | 25                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | N/A                         |       |                     | 5                                   | 6 1/4  | 10                  | 7 1/2                 | 22'-5"          |        |
| 23'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | N/A         |       |                     | N/A                 |       |                     | N/A        |       |                     | 35                                            | 24                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | N/A                         |       |                     | N/A                                 |        |                     | 7                     | 1/2             | 23'-5" |





REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZEDA circular professional engineer seal for Shawn Patrick Kelley. The outer ring contains the text "SHAWN PATRICK KELLEY" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring is a dotted circle containing the text "LICENSE" at the top, "No 58299" in the center, and "STATE OF FLORIDA" at the bottom, also separated by two stars. A large, stylized green signature is written across the seal, overlapping the text.

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| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                       |                 |                     |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|-----------------------|-----------------|---------------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                       |                 |                     |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       | Min. Edge<br>Distance | D.B.G.<br>Up To |                     |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed |                       |                 | Min. Wall<br>Thick. |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 34                | 2 3/8 | 4                   | 33                     | 2 3/8 | 3 3/4               | 34                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 33                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 29                                        | 1 7/8 | 3 1/4               | 33                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                     | 5 3/4           | 5'-5"               |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 31                | 2 3/8 | 4                   | 30                     | 2 3/8 | 3 3/4               | 31                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 30                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 27                                        | 1 7/8 | 3 1/4               | 31                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                     | 5 3/4           | 6'-5"               |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 29                | 2 3/8 | 4                   | 28                     | 2 3/8 | 3 3/4               | 29                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 28                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 25                                        | 1 7/8 | 3 1/4               | 28                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                     | 5 3/4           | 7'-5"               |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 27                | 2 3/8 | 4                   | 26                     | 2 3/8 | 3 3/4               | 27                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 26                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 23                                        | 1 7/8 | 3 1/4               | 27                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                     | 5 3/4           | 8'-5"               |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 26                | 2 3/8 | 4                   | 25                     | 2 3/8 | 3 3/4               | 26                  | 2 1/2 | 4                   | 34          | 2 1/2 | 4                   | 25                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 22                                        | 1 7/8 | 3 1/4               | 25                                     | 2 1/2 | 4                   | 35                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                     | 5 3/4           | 9'-5"               |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 32          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 21                                        | 1 7/8 | 3 1/4               | 24                                     | 2 1/2 | 4                   | 33                          | 2 1/2 | 4                   | 34                                  | 2 1/2 | 4                     | 5 3/4           | 10'-5"              |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 22                     | 2 3/8 | 3 3/4               | 23                  | 2 1/2 | 4                   | 30          | 2 1/2 | 4                   | 22                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 20                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 32                          | 2 1/2 | 4                   | 32                                  | 2 1/2 | 4                     | 5 3/4           | 11'-5"              |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 19                                        | 1 7/8 | 3 1/4               | 22                                     | 2 1/2 | 4                   | 30                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4                     | 5 3/4           | 12'-5"              |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 21                                     | 2 1/2 | 4                   | 29                          | 2 1/2 | 4                   | 30                                  | 2 1/2 | 4                     | 5 3/4           | 13'-5"              |
| 14'-5"                                                                                                | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            | 35                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 28                          | 2 1/2 | 4                   | 29                                  | 2 1/2 | 4                     | 5 3/4           | 14'-5"              |
| 15'-5"                                                                                                | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            | 33                                               |                                          | N/A   |                     | 17                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 27                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4                     | 5 3/4           | 15'-5"              |
| 16'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            | 31                                               |                                          | N/A   |                     | 17                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 27                                  | 2 1/2 | 4                     | 5 3/4           | 16'-5"              |
| 17'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            | 29                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 26                                  | 2 1/2 | 4                     | 5 3/4           | 17'-5"              |
| 18'-5"                                                                                                | 344               |                       | N/A   |                     | 15                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 19         | 3 1/2 | 4 3/4               | 36                                            | 35                                               |                                          | N/A   |                     | 10                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 22                                  | 2 1/2 | 4                     | 5 3/4           | 18'-5"              |
| 19'-5"                                                                                                | 344               |                       | N/A   |                     | 12                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 36                                            | 26                                               |                                          | N/A   |                     | 6                                         | 1 7/8 | 3 1/4               | 14                                     | 2 1/2 | 4                   | 19                          | 2 1/2 | 4                   | 19                                  | 2 1/2 | 4                     | 5 3/4           | 19'-5"              |
| 20'-5"                                                                                                | 344               |                       | N/A   |                     | 10                | 2 3/8 | 4                   | 10                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 16          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 28                                            | 19                                               |                                          | N/A   |                     |                                           | N/A   |                     | 13                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 18                                  | 3 1/4 | 5                     | 5 3/4           | 20'-5"              |
| 21'-5"                                                                                                | 344               |                       | N/A   |                     | 5                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 5                   | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 11         | 3 1/2 | 4 3/4               | 23                                            | 15                                               |                                          | N/A   |                     |                                           | N/A   |                     | 5                                      | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 16                                  | 3 1/4 | 5                     | 5 3/4           | 21'-5"              |
| 22'-5"                                                                                                | 445               | 22                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 22                                       | 3 7/8 | 6                   | 15                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 28                                  | 4     | 6 1/4                 | 6 13/16         | 22'-5"              |
| 23'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 19                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 18                  | 4     | 6                   | 24         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 20                                       | 3 7/8 | 6                   | 11                                        | 2 1/2 | 4                   | 20                                     | 3 3/4 | 5 1/2               | 21                          | 4 1/4 | 6 3/4               | 26                                  | 4     | 6 1/4                 | 6 13/16         | 23'-5"              |
| 24'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 22          | 4 1/4 | 6 3/4               | 16                  | 4     | 6                   | 21         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 18                                       | 3 7/8 | 6                   | 9                                         | 2 1/2 | 4                   | 18                                     | 3 3/4 | 5 1/2               | 19                          | 4 1/4 | 6 3/4               | 24                                  | 4     | 6 1/4                 | 6 13/16         | 24'-5"              |
| 25'-5"                                                                                                | 445               | 17                    | 3 7/8 | 6                   | 13                | 3 5/8 | 6                   | 14                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 20          | 4 1/4 | 6 3/4               | 14                  | 4     | 6                   | 19         | 4 1/4 | 5 1/2               | 36                                            | 34                                               | 16                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 17                                     | 3 3/4 | 5 1/2               | 16                          | 4 1/4 | 6 3/4               | 22                                  | 4     | 6 1/4                 | 6 13/16         | 25'-5"              |
| 26'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 11                | 3 5/8 | 6                   | 12                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            | 30                                               | 14                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 16                                     | 3 3/4 | 5 1/2               | 13                          | 4 1/4 | 6 3/4               | 21                                  | 4     | 6 1/4                 | 6 13/16         | 26'-5"              |
| 27'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 11                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 12                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            | 27                                               | 13                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 14                                     | 3 3/4 | 5 1/2               | 11                          | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4                 | 6 13/16         | 27'-5"              |
| 28'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 35                                            | 24                                               | 12                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 13                                     | 3 3/4 | 5 1/2               | 10                          | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4                 | 6 13/16         | 28'-5"              |
| 29'-5"                                                                                                | 445               | 12                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 31                                            | 21                                               | 10                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4                 | 6 13/16         | 29'-5"              |
| 30'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 12         | 4 1/4 | 5 1/2               | 29                                            | 19                                               | 10                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4                 | 6 13/16         | 30'-5"              |
| 31'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 6                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 8                   | 4     | 6                   | 10         | 4 1/4 | 5 1/2               | 26                                            | 17                                               | 9                                        | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 8                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4                 | 6 13/16         | 31'-5"              |
| 32'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 16         | 5     | 6 1/4               | 36                                            | 34                                               | 16                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 10                                     | 4 1/2 | 6                   |                             | N/A   |                     | 17                                  | 5 1/2 | 8 1/2                 | 6 7/8           | 32'-5"              |
| 33'-5"                                                                                                | 446               | 16                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   |                     | 13         | 5     | 6 1/4               | 36                                            | 31                                               | 11                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 9                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2                 | 6 7/8           | 33'-5"              |
| 34'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            | 29                                               | 10                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 8                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2                 | 6 7/8           | 34'-5"              |
| 35'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 10         | 5     | 6 1/4               | 36                                            | 27                                               | 10                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 7                                      | 4 1/2 | 6                   |                             | N/A   |                     | 9                                   | 5 1/2 | 8 1/2                 | 6 7/8           | 35'-5"              |
| 36'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 9          | 5     | 6 1/4               | 36                                            | 25                                               | 9                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 6                                      | 4 1/2 | 6                   |                             | N/A   |                     | 9                                   | 5 1/2 | 8 1/2                 | 6 7/8           | 36'-5"              |
| 37'-5"                                                                                                | 546               | 9                     | 5     |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                       |                 |                     |

|      |                         |            |     |        |
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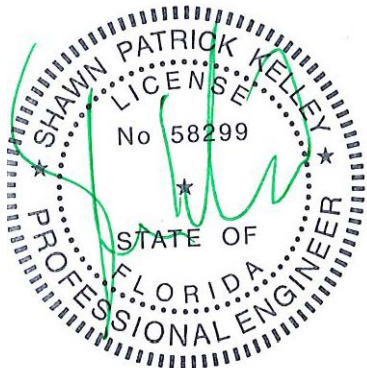
| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 30 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |                        |          |      |                       |          |      |             |          |      |                          |                                                                  |      |                             |          |                                          |       |                 |      |                    |               |                       |              |                         |                            |                         |                            |                    |        |        |        |              |        |      |      |        |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|------------------------|----------|------|-----------------------|----------|------|-------------|----------|------|--------------------------|------------------------------------------------------------------|------|-----------------------------|----------|------------------------------------------|-------|-----------------|------|--------------------|---------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|--------------------|--------|--------|--------|--------------|--------|------|------|--------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |                        |          |      |                       |          |      |             |          |      |                          | Steel (Wall anchors are the same diameter as assembly fasteners) |      |                             |          |                                          |       |                 |      |                    |               |                       |              |                         |                            |                         |                            |                    |        |        |        |              |        |      |      |        |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      | Powers Power-Stud+ SD1 |          |      | Simpson Strong-Bolt 2 |          |      | Hilti KH-EZ |          |      | Simpson Strong-Tie Titen |                                                                  |      | Hilti KH-EZ Stainless Steel |          | Simpson Strong-Tie Titen Stainless Steel |       | Through Bolting |      | Min. Edge Distance | Welded        |                       | Through Bolt |                         | Tapped Bolt                |                         |                            | Superimposed Loads |        |        |        | D.B.G. Up To |        |      |      |        |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed                  | Max O.C. | Dia. | Embed                 | Max O.C. | Dia. | Embed       | Max O.C. | Dia. | Embed                    | Max O.C.                                                         | Dia. | Embed                       | Max O.C. | Dia.                                     | Embed | Max O.C.        | Dia. |                    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness      | Vx (+) | Vy (+) | Vx (-) |              | Vy (-) |      |      |        |        |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 3/8  | 1 7/8                  | 10       | 3/8  | 2 3/8                 | 10       | 3/8  | 2 5/8       | 28       | 3/8  | 3 1/4                    | 16                                                               | 1/2  | 3 1/2                       | 28       | 3/8                                      | 3 1/4 | 15              | 1/2  | 3 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 83     | 0    | 81   | 5'-5"  |        |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 14                                           | 3/8  | 3                      | 8        | 3/8  | 2 3/8                 | 8        | 3/8  | 2 5/8       | 24       | 3/8  | 3 1/4                    | 13                                                               | 1/2  | 3 1/2                       | 23       | 3/8                                      | 3 1/4 | 13              | 1/2  | 3 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 98     | 0    | 96   | 6'-5"  |        |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/8  | 3                      | 9        | 1/2  | 2 1/2                 | 9        | 1/2  | 3 1/2       | 20       | 3/8  | 3 1/4                    | 15                                                               | 5/8  | 4 1/2                       | 20       | 3/8                                      | 3 1/4 | 15              | 5/8  | 4 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 113    | 0    | 111  | 7'-5"  |        |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3                      | 10       | 5/8  | 3 3/8                 | 13       | 5/8  | 4 3/8       | 18       | 3/8  | 3 1/4                    | 13                                                               | 5/8  | 4 1/2                       | 18       | 3/8                                      | 3 1/4 | 13              | 5/8  | 4 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 128    | 0    | 126  | 8'-5"  |        |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 3/8  | 3                      | 9        | 5/8  | 3 3/8                 | 11       | 5/8  | 4 3/8       | 16       | 3/8  | 3 1/4                    | 12                                                               | 5/8  | 4 1/2                       | 16       | 3/8                                      | 3 1/4 | 12              | 5/8  | 4 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 143    | 0    | 141  | 9'-5"  |        |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3                      | 8        | 5/8  | 3 3/8                 | 10       | 5/8  | 4 3/8       | 14       | 3/8  | 3 1/4                    | 14                                                               | 3/4  | 5 1/2                       | 14       | 3/8                                      | 3 1/4 | 9               | 3/4  | 5 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 158    | 0    | 156  | 10'-5" |        |
| 11'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3                      | N/A      |      |                       | 9        | 5/8  | 4 3/8       | 13       | 3/8  | 3 1/4                    | 13                                                               | 3/4  | 5 1/2                       | 13       | 3/8                                      | 3 1/4 | 8               | 3/4  | 5 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 173    | 0    | 171  | 11'-5" |        |
| 12'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 1/2  | 3 3/4                  | N/A      |      |                       | 9        | 5/8  | 4 3/8       | 12       | 3/8  | 3 1/4                    | 12                                                               | 3/4  | 5 1/2                       | 12       | 3/8                                      | 3 1/4 | N/A             |      |                    | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 188    | 0    | 186  | 12'-5" |        |
| 13'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2                  | N/A      |      |                       | 8        | 5/8  | 4 3/8       | 11       | 3/8  | 3 1/4                    | N/A                                                              |      |                             | 11       | 3/8                                      | 3 1/4 | N/A             |      |                    | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 36     | 36     | 3/16   | 0            | 203    | 0    | 201  | 13'-5" |        |
| 14'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 8                                            | 3/8  | 1 7/8                  | 9        | 1/2  | 2 1/2                 | 9        | 1/2  | 3 1/2       | 24       | 3/8  | 3 1/4                    | 12                                                               | 1/2  | 3 1/2                       | 24       | 3/8                                      | 3 1/4 | 11              | 1/2  | 3 1/2              | 8             | 3/8                   | 5 3/4        | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36                 | 18     | 15     | 3/16   | 172          | 217    | 151  | 216  | 14'-5" |        |
| 15'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 1/2  | 3 3/4                  | 9        | 5/8  | 3 3/8                 | 10       | 5/8  | 4 3/8       | 14       | 3/8  | 3 1/4                    | 14                                                               | 3/4  | 5 1/2                       | 13       | 3/8                                      | 3 1/4 | N/A             |      |                    | 8             | 3/8                   | 5 3/4        | 26                      | 36                         | 7/16" x 5/8"            | 25                         | 19                 | 9      | 7      | 3/16   | 377          | 232    | 358  | 232  | 15'-5" |        |
| 16'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 14                        | 8                                            | 5/8  | 4 1/2                  | N/A      |      |                       | 8        | 3/4  | 5 1/4       | 8        | 3/8  | 3 1/4                    | N/A                                                              |      |                             | 13       | 1/2                                      | 4 1/4 | N/A             |      |                    | 8             | 3/8                   | 5 3/4        | 17                      | 33                         | 7/16" x 5/8"            | 16                         | 11                 | 6      | 5      | 3/16   | 567          | 247    | 549  | 247  | 16'-5" |        |
| 17'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 11                        | 12                                           | 3/4  | 5 1/2                  | N/A      |      |                       | N/A      |      |             | 10       | 1/2  | 4 1/4                    | N/A                                                              |      |                             | 9        | 1/2                                      | 4 1/4 | N/A             |      |                    | 8             | 3/8                   | 5 3/4        | 13                      | 25                         | 7/16" x 5/8"            | 11                         | 7                  | N/A    |        | N/A    | 3/16         | 746    | 262  | 730  | 262    | 17'-5" |
| 18'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 9                                            | 5/8  | 4 1/2                  | N/A      |      |                       | 9        | 3/4  | 5 1/4       | 16       | 1/2  | 4 1/4                    | N/A                                                              |      |                             | 13       | 1/2                                      | 4 1/4 | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 27                      | 36                         | 9/16" x 3/4"            | 36                         | 29                 | 13     | 9      | 1/4    | 583          | 276    | 573  | 276  | 18'-5" |        |
| 19'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 13                                           | 3/4  | 5 1/2                  | N/A      |      |                       | N/A      |      |             | 12       | 1/2  | 4 1/4                    | N/A                                                              |      |                             | 10       | 1/2                                      | 4 1/4 | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 22                      | 35                         | 9/16" x 3/4"            | 30                         | 23                 | 11     | 8      | 1/4    | 722          | 291    | 713  | 291  | 19'-5" |        |
| 20'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 11                                           | 3/4  | 5 1/2                  | N/A      |      |                       | N/A      |      |             | 9        | 1/2  | 4 1/4                    | N/A                                                              |      |                             | 9        | 1/2                                      | 4 1/4 | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 18                      | 29                         | 9/16" x 3/4"            | 25                         | 19                 | 9      | 6      | 1/4    | 856          | 306    | 847  | 306  | 20'-5" |        |
| 21'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 15                        | 9                                            | 3/4  | 5 1/2                  | N/A      |      |                       | N/A      |      |             | 8        | 1/2  | 4 1/4                    | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 15                      | 24                         | 9/16" x 3/4"            | 21                         | 15                 | 7      | 5      | 1/4    | 1024         | 321    | 1015 | 322  | 21'-5" |        |
| 22'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 14                        | 8                                            | 3/4  | 5 1/2                  | N/A      |      |                       | N/A      |      |             | 8        | 3/4  | 6 1/4                    | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 14                      | 22                         | 9/16" x 3/4"            | 18                         | 12                 | 6      | N/A    |        | 1/4          | 1155   | 336  | 1146 | 337    | 22'-5" |
| 23'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 13                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 12                      | 19                         | 9/16" x 3/4"            | 15                         | 10                 | 6      | N/A    |        | 1/4          | 1284   | 351  | 1275 | 352    | 23'-5" |
| 24'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 11                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 1/2                   | 6 13/16      | 11                      | 18                         | 9/16" x 3/4"            | 13                         | 9                  | 5      | N/A    |        | 1/4          | 1411   | 366  | 1402 | 367    | 24'-5" |
| 25'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 17                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 5/8                   | 6 7/8        | 12                      | 19                         | 11/16" x 7/8"           | 21                         | 15                 | 7      | 5      | 5/16   | 1538         | 381    | 1529 | 382  | 25'-5" |        |
| 26'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 16                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 5/8                   | 6 7/8        | 11                      | 17                         | 11/16" x 7/8"           | 20                         | 14                 | 7      | 5      | 5/16   | 1664         | 397    | 1655 | 397  | 26'-5" |        |
| 27'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 15                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 5/8                   | 6 7/8        | 10                      | 16                         | 11/16" x 7/8"           | 18                         | 12                 | 6      | N/A    |        | 5/16         | 1790   | 412  | 1781 | 413    | 27'-5" |
| 28'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 5/8                   | 6 7/8        | 9                       | 15                         | 11/16" x 7/8"           | 16                         | 11                 | 6      | N/A    |        | 5/16         | 1917   | 427  | 1908 | 428    | 28'-5" |
| 29'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 5/8                   | 6 7/8        | 9                       | 14                         | 11/16" x 7/8"           | 15                         | 10                 | 5      | N/A    |        | 5/16         | 2043   | 442  | 2034 | 443    | 29'-5" |
| 30'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 18                      | 20                         | 7/8" x 1"               | 36                         | 31                 | 14     | 10     | 3/8    | 1778         | 456    | 1770 | 456  | 30'-5" |        |
| 31'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 17                      | 19                         | 7/8" x 1"               | 36                         | 30                 | 13     | 9      | 3/8    | 1887         | 471    | 1878 | 472  | 31'-5" |        |
| 32'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 16                      | 18                         | 7/8" x 1"               | 36                         | 28                 | 12     | 9      | 3/8    | 1996         | 486    | 1988 | 487  | 32'-5" |        |
| 33'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 15                      | 17                         | 7/8" x 1"               | 34                         | 26                 | 12     | 8      | 3/8    | 2106         | 502    | 2097 | 502  | 33'-5" |        |
| 34'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 14                      | 16                         | 7/8" x 1"               | 33                         | 24                 | 11     | 8      | 3/8    | 2216         | 517    | 2208 | 517  | 34'-5" |        |
| 35'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 14                      | 16                         | 7/8" x 1"               | 31                         | 22                 | 11     | 8      | 3/8    | 2328         | 532    | 2319 | 532  | 35'-5" |        |
| 36'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 13                      | 15                         | 7/8" x 1"               | 30                         | 21                 | 10     | 7      | 3/8    | 2440         | 547    | 2431 | 548  | 36'-5" |        |
| 37'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 12                      | 14                         | 7/8" x 1"               | 28                         | 20                 | 10     | 7      | 3/8    | 2553         | 563    | 2544 | 563  | 37'-5" |        |
| 38'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 12                      | 14                         | 7/8" x 1"               | 26                         | 18                 | 9      | 7      | 3/8    | 2666         | 578    | 2658 | 578  | 38'-5" |        |
| 39'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 11                      | 13                         | 7/8" x 1"               | 25                         | 17                 | 9      | 6      | 3/8    | 2781         | 593    | 2772 | 594  | 39'-5" |        |
| 40'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          |      |                        | N/A      |      |                       | N/A      |      |             | N/A      |      |                          | N/A                                                              |      |                             | N/A      |                                          |       | N/A             |      |                    | 8             | 3/4                   | 7 1/2        | 11                      | 12                         | 7/8" x 1"               | 24                         | 16                 | 8      | 6      | 3/8    | 2897         | 609    | 2888 | 609  | 40'-5" |        |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0236, 0.022 Minimum Thickness Galvanized or Stainless Steel - 30 PSF - Continued    |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |        |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |        |        |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 28                | 2 3/8 | 4                   | 27                     | 2 3/8 | 3 3/4               | 28                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 27                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 24    | 1 7/8               | 3 1/4                                  | 27    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 5'-5"  |        |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 25                | 2 3/8 | 4                   | 24                     | 2 3/8 | 3 3/4               | 25                  | 2 1/2 | 4                   | 33          | 2 1/2 | 4                   | 24                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 22    | 1 7/8               | 3 1/4                                  | 25    | 2 1/2               | 4                           | 35    | 2 1/2               | 4                                   | 35    | 2 1/2               | 4                     | 5 3/4           | 6'-5"  |        |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 20    | 1 7/8               | 3 1/4                                  | 23    | 2 1/2               | 4                           | 32    | 2 1/2               | 4                                   | 33    | 2 1/2               | 4                     | 5 3/4           | 7'-5"  |        |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 19    | 1 7/8               | 3 1/4                                  | 22    | 2 1/2               | 4                           | 30    | 2 1/2               | 4                                   | 31    | 2 1/2               | 4                     | 5 3/4           | 8'-5"  |        |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 20                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 29    | 2 1/2               | 4                                   | 29    | 2 1/2               | 4                     | 5 3/4           | 9'-5"  |        |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 33                                       |       | N/A                 |                                           | 17    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 27    | 2 1/2               | 4                                   | 28    | 2 1/2               | 4                     | 5 3/4           | 10'-5" |        |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 30                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 26    | 2 1/2               | 4                     | 5 3/4           | 11'-5" |        |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            |                                                  | 27                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 18    | 2 1/2               | 4                           | 25    | 2 1/2               | 4                                   | 25    | 2 1/2               | 4                     | 5 3/4           | 12'-5" |        |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 24         | 3 1/2 | 4 3/4               | 33                                            |                                                  | 25                                       |       | N/A                 |                                           | 15    | 1 7/8               | 3 1/4                                  | 17    | 2 1/2               | 4                           | 24    | 2 1/2               | 4                                   | 24    | 2 1/2               | 4                     | 5 3/4           | 13'-5" |        |
| 14'-5"                                                                                                | 344               |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 25                  | 2 1/2 | 4                   | 30          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 24    | 2 1/2               | 4                           | 33    | 2 1/2               | 4                                   | 33    | 2 1/2               | 4                     | 5 3/4           | 14'-5" |        |
| 15'-5"                                                                                                | 344               |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 12    | 1 7/8               | 3 1/4                                  | 17    | 2 1/2               | 4                           | 24    | 2 1/2               | 4                                   | 24    | 2 1/2               | 4                     | 5 3/4           | 15'-5" |        |
| 16'-5"                                                                                                | 344               |                       | N/A   |                     | 12                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 35                                            |                                                  | 25                                       |       | N/A                 |                                           | 6     | 1 7/8               | 3 1/4                                  | 14    | 2 1/2               | 4                           | 19    | 2 1/2               | 4                                   | 19    | 2 1/2               | 4                     | 5 3/4           | 16'-5" |        |
| 17'-5"                                                                                                | 344               |                       | N/A   |                     | 8                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 11                  | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 12         | 3 1/2 | 4 3/4               | 25                                            |                                                  | 17                                       |       | N/A                 |                                           |       | N/A                 |                                        | 11    | 2 1/2               | 4                           | 5     | 2 1/2               | 4                                   | 17    | 3 1/4               | 5                     | 5 3/4           | 17'-5" |        |
| 18'-5"                                                                                                | 445               | 22                    | 3 7/8 | 6                   | 20                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 28         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 22    | 3 7/8               | 6                                         | 15    | 2 1/2               | 4                                      | 22    | 3 3/4               | 5 1/2                       | 24    | 4 1/4               | 6 3/4                               | 28    | 4                   | 6 1/4                 | 6 13/16         | 18'-5" |        |
| 19'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 17                | 3 5/8 | 6                   | 16                     | 3 3/4 | 6                   | 19                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 17                  | 4     | 6                   | 23         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 19    | 3 7/8               | 6                                         | 11    | 2 1/2               | 4                                      | 19    | 3 3/4               | 5 1/2                       | 21    | 4 1/4               | 6 3/4                               | 25    | 4                   | 6 1/4                 | 6 13/16         | 19'-5" |        |
| 20'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 15                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 20         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 16    | 3 7/8               | 6                                         |       | N/A                 |                                        | 18    | 3 3/4               | 5 1/2                       | 17    | 4 1/4               | 6 3/4                               | 23    | 4                   | 6 1/4                 | 6 13/16         | 20'-5" |        |
| 21'-5"                                                                                                | 445               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 12                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 29                                       | 14    | 3 7/8               | 6                                         |       | N/A                 |                                        | 15    | 3 3/4               | 5 1/2                       | 13    | 4 1/4               | 6 3/4                               | 20    | 4                   | 6 1/4                 | 6 13/16         | 21'-5" |        |
| 22'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 25                                       | 12    | 3 7/8               | 6                                         |       | N/A                 |                                        | 13    | 3 3/4               | 5 1/2                       | 10    | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 22'-5" |        |
| 23'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 31                                            |                                                  | 21                                       | 10    | 3 7/8               | 6                                         |       | N/A                 |                                        | 9     | 3 3/4               | 5 1/2                       | 9     | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 23'-5" |        |
| 24'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 11         | 4 1/4 | 5 1/2               | 27                                            |                                                  | 18                                       | 9     | 3 7/8               | 6                                         |       | N/A                 |                                        | 9     | 3 3/4               | 5 1/2                       | 9     | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 24'-5" |        |
| 25'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     |       |                     | N/A        | 16    | 5                   | 6 1/4                                         | 36                                               |                                          | 34    | 16                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 10                  | 4 1/2                       | 6     |                     |                                     |       | 17                  | 5 1/2                 | 8 1/2           | 6 7/8  | 25'-5" |
| 26'-5"                                                                                                | 446               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     |       |                     | N/A        | 12    | 5                   | 6 1/4                                         | 36                                               |                                          | 30    | 11                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 8                   | 4 1/2                       | 6     |                     |                                     |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8  | 26'-5" |
| 27'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     |       |                     | N/A        | 11    | 5                   | 6 1/4                                         | 36                                               |                                          | 27    | 10                  | 5 1/8                                     | 7 7/8 |                     |                                        |       | 7                   | 4 1/2                       | 6     |                     |                                     |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8  | 27'-5" |
| 28'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     |       |                     | N/A        | 8     | 5                   | 6 1/4                                         | 36                                               |                                          | 25    | 9                   | 5 1/8                                     | 7 7/8 |                     |                                        |       | 6                   | 4 1/2                       | 6     |                     |                                     |       | 8                   | 5 1/2                 | 8 1/2           | 6 7/8  | 28'-5" |
| 29'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 8           | 5     | 7                   |                     |       |                     | N/A        | 6     | 5                   | 6 1/4                                         | 33                                               |                                          | 22    | 8                   | 5 1/8                                     | 7 7/8 |                     |                                        |       | 5                   | 4 1/2                       | 6     |                     |                                     |       | 7                   | 5 1/2                 | 8 1/2           | 6 7/8  | 29'-5" |
| 30'-5"                                                                                                | 548               | 18                    | 5 3/4 | 8 3/4               | 11                | 5 1/2 | 8                   | 8                      | 5 5/8 | 10                  | 19                  | 5 1/2 | 8                   | 20          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 20    | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 36    | 19                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 11                  | 5 1/2                       | 8     |                     |                                     |       | 27                  | 6 1/4                 | 10              | 7 1/2  | 30'-5" |
| 31'-5"                                                                                                | 548               | 16                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 11                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 14    | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 36    | 18                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 11                  | 5 1/2                       | 8     |                     |                                     |       | 25                  | 6 1/4                 | 10              | 7 1/2  | 31'-5" |
| 32'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 13    | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 36    | 17                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 10                  | 5 1/2                       | 8     |                     |                                     |       | 24                  | 6 1/4                 | 10              | 7 1/2  | 32'-5" |
| 33'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 13    | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 36    | 12                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 9                   | 5 1/2                       | 8     |                     |                                     |       | 11                  | 6 1/4                 | 10              | 7 1/2  | 33'-5" |
| 34'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 12    | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 36    | 11                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 8                   | 5 1/2                       | 8     |                     |                                     |       | 10                  | 6 1/4                 | 10              | 7 1/2  | 34'-5" |
| 35'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 10    | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 36    | 11                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 7                   | 5 1/2                       | 8     |                     |                                     |       | 10                  | 6 1/4                 | 10              | 7 1/2  | 35'-5" |
| 36'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     |       |                     | N/A        | 9     | 6 5/8               | 7 7/8                                         | 36                                               |                                          | 34    | 10                  | 5 3/4                                     | 8 3/4 |                     |                                        |       | 6                   | 5 1/2                       | 8     |                     |                                     |       | 9                   | 6 1/4                 | 10              | 7 1/2  | 36'-5" |
| 37'-5"                                                                                                | 548               |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |        |

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| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |       |       |                          |      |       |                             |                                                                  |       |                                          |      |       |                 |         |                    |                       |              |                         |                            |                         |                            |               |                    |        |        |        |              |        |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|-------|-------|--------------------------|------|-------|-----------------------------|------------------------------------------------------------------|-------|------------------------------------------|------|-------|-----------------|---------|--------------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------------------|--------|--------|--------|--------------|--------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |       |       |                          |      |       |                             | Steel (Wall anchors are the same diameter as assembly fasteners) |       |                                          |      |       |                 |         |                    |                       |              |                         |                            |                         |                            |               |                    |        |        |        |              |        |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt TZ2 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |       |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |                                                                  |       | Simpson Strong-Tie Titen Stainless Steel |      |       | Through Bolting |         | Min. Edge Distance | Welded                |              | Through Bolt            |                            | Tapped Bolt             |                            |               | Superimposed Loads |        |        |        | D.B.G. Up To |        |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia.                                                             | Embed | Max O.C.                                 | Dia. | Embed | Max O.C.        | Dia.    | Slot Max O.C.      | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+)             | Vy (+) | Vx (-) | Vy (-) |              |        |        |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/8  | 3     | 9                      | 1/2  | 2 1/2 | 9                     | 1/2  | 3 1/2 | 21          | 3/8   | 3 1/4 | 12                       | 1/2  | 3 1/2 | 21                          | 3/8                                                              | 3 1/4 | 11                                       | 1/2  | 3 1/2 | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 110    | 0      | 108          | 5'-5"  |        |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3     | 10                     | 5/8  | 3 3/8 | 13                    | 5/8  | 4 3/8 | 18          | 3/8   | 3 1/4 | 13                       | 5/8  | 4 1/2 | 17                          | 3/8                                                              | 3 1/4 | 13                                       | 5/8  | 4 1/2 | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 130    | 0      | 128          | 6'-5"  |        |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 3/8  | 3     | 9                      | 5/8  | 3 3/8 | 11                    | 5/8  | 4 3/8 | 15          | 3/8   | 3 1/4 | 15                       | 3/4  | 5 1/2 | 15                          | 3/8                                                              | 3 1/4 | 9                                        | 3/4  | 5 1/2 | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 150    | 0      | 148          | 7'-5"  |        |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3     |                        | N/A  |       | 10                    | 5/8  | 4 3/8 | 13          | 3/8   | 3 1/4 | 13                       | 3/4  | 5 1/2 | 13                          | 3/8                                                              | 3 1/4 | 8                                        | 3/4  | 5 1/2 | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 170    | 0      | 168          | 8'-5"  |        |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 5/8  | 4 3/8 | 12          | 3/8   | 3 1/4 |                          | N/A  |       | 12                          | 3/8                                                              | 3 1/4 |                                          | N/A  |       | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 190    | 0      | 188          | 9'-5"  |        |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 5/8  | 4 3/8 | 11          | 3/8   | 3 1/4 |                          | N/A  |       | 11                          | 3/8                                                              | 3 1/4 |                                          | N/A  |       | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 210    | 0      | 208          | 10'-5" |        |
| 11'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 3/4  | 5 1/4 | 10          | 3/8   | 3 1/4 |                          | N/A  |       | 10                          | 3/8                                                              | 3 1/4 |                                          | N/A  |       | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16               | 0      | 230    | 0      | 228          | 11'-5" |        |
| 12'-5"                                                                                | 1 7/16                 | 0.657 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 15                                           | 3/4  | 5 1/2 |                        | N/A  |       |                       | 9    | 3/8   | 3 1/4       |       | N/A   |                          | 9    | 3/8   | 3 1/4                       |                                                                  | N/A   |                                          | 8    | 3/8   | 5 3/4           | 36      | 36                 | 7/16" x 5/8"          | 36           | 36                      | 36                         | 36                      | 3/16                       | 7             | 250                | 0      | 248    | 12'-5" |              |        |        |
| 13'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 3/8  | 3     | 8                      | 1/2  | 2 1/2 | 8                     | 1/2  | 3 1/2 | 18          | 3/8   | 3 1/4 | 14                       | 5/8  | 4 1/2 | 18                          | 3/8                                                              | 3 1/4 | 12                                       | 5/8  | 4 1/2 | 8               | 3/8     | 5 3/4              | 36                    | 36           | 7/16" x 5/8"            | 36                         | 28                      | 13                         | 11            | 3/16               | 242    | 270    | 215    | 269          | 13'-5" |        |
| 14'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 14                        | 9                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 5/8  | 4 3/8 | 9           | 3/8   | 3 1/4 |                          | N/A  |       | 9                           | 3/8                                                              | 3 1/4 |                                          | N/A  |       | 8               | 3/8     | 5 3/4              | 20                    | 36           | 7/16" x 5/8"            | 18                         |                         | 14                         | 6             | 5                  | 3/16   | 500    | 290    | 476          | 289    | 14'-5" |
| 15'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 3/4  | 5 1/4 | 15          | 1/2   | 4 1/4 |                          | N/A  |       | 12                          | 1/2                                                              | 4 1/4 |                                          | N/A  |       | 8               | 1/2     | 6 13/16            | 27                    | 36           | 9/16" x 3/4"            | 36                         |                         | 29                         | 13            | 9                  | 1/4    | 587    | 328    | 575          | 328    | 15'-5" |
| 16'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 3/4  | 5 1/4 | 15          | 1/2   | 4 1/4 |                          | N/A  |       | 12                          | 1/2                                                              | 4 1/4 |                                          | N/A  |       | 8               | 1/2     | 6 13/16            | 27                    | 36           | 9/16" x 3/4"            | 36                         |                         | 29                         | 13            | 9                  | 1/4    | 587    | 328    | 575          | 328    | 16'-5" |
| 17'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 12                                           | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  | 10    | 1/2         | 4 1/4 |       | N/A                      |      | 9     | 1/2                         | 4 1/4                                                            |       | N/A                                      |      | 8     | 1/2             | 6 13/16 | 21                 | 32                    | 9/16" x 3/4" | 28                      |                            | 22                      | 10                         | 7             | 1/4                | 770    | 348    | 757    | 348          | 17'-5" |        |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 15                        | 9                                            | 3/4  | 5 1/2 |                        | N/A  |       |                       | N/A  | 8     | 1/2         | 4 1/4 |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 1/2   | 6 13/16         | 16      | 25                 | 9/16" x 3/4"          | 22           |                         | 16                         | 8                       | 5                          | 1/4           | 984                | 368    | 972    | 369    | 18'-5"       |        |        |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  | 8     | 3/4         | 6 1/4 |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 1/2   | 6 13/16         | 14      | 21                 | 9/16" x 3/4"          | 18           |                         | 12                         | 6                       |                            | N/A           | 1/4                | 1156   | 388    | 1144   | 389          | 19'-5" |        |
| 20'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 1/2   | 6 13/16         | 12      | 19                 | 9/16" x 3/4"          | 15           |                         | 10                         | 6                       |                            | N/A           | 1/4                | 1324   | 408    | 1312   | 409          | 20'-5" |        |
| 21'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 17                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 5/8   | 6 7/8           | 12      | 19                 | 11/16" x 7/8"         | 22           |                         | 16                         | 8                       | 5                          | 5/16          | 1489               | 428    | 1478   | 429    | 21'-5"       |        |        |
| 22'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 16                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 5/8   | 6 7/8           | 11      | 17                 | 11/16" x 7/8"         | 20           |                         | 14                         | 7                       | 5                          | 5/16          | 1652               | 448    | 1641   | 449    | 22'-5"       |        |        |
| 23'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 5/8   | 6 7/8           | 10      | 16                 | 11/16" x 7/8"         | 17           |                         | 12                         | 6                       |                            | N/A           | 5/16               | 1815   | 468    | 1803   | 470          | 23'-5" |        |
| 24'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 5/8   | 6 7/8           | 9       | 15                 | 11/16" x 7/8"         | 15           |                         | 11                         | 6                       |                            | N/A           | 5/16               | 1976   | 489    | 1965   | 490          | 24'-5" |        |
| 25'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 5/8   | 6 7/8           | 8       | 13                 | 11/16" x 7/8"         | 14           |                         | 9                          | 5                       |                            | N/A           | 5/16               | 2138   | 509    | 2126   | 510          | 25'-5" |        |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 17      | 19                 | 7/8" x 1"             | 36           |                         | 30                         | 13                      | 9                          | 3/8           | 1875               | 528    | 1864   | 528    | 26'-5"       |        |        |
| 27'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 16      | 18                 | 7/8" x 1"             | 36           |                         | 27                         | 12                      | 9                          | 3/8           | 2014               | 548    | 2003   | 548    | 27'-5"       |        |        |
| 28'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 15      | 17                 | 7/8" x 1"             | 33           |                         | 25                         | 11                      | 8                          | 3/8           | 2152               | 568    | 2141   | 569    | 28'-5"       |        |        |
| 29'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 14      | 16                 | 7/8" x 1"             | 31           |                         | 23                         | 11                      | 8                          | 3/8           | 2291               | 588    | 2281   | 589    | 29'-5"       |        |        |
| 30'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 13      | 15                 | 7/8" x 1"             | 30           |                         | 21                         | 10                      | 7                          | 3/8           | 2432               | 609    | 2421   | 609    | 30'-5"       |        |        |
| 31'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 15                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 12      | 14                 | 7/8" x 1"             | 28           |                         | 19                         | 10                      | 7                          | 3/8           | 2573               | 629    | 2562   | 629    | 31'-5"       |        |        |
| 32'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 12      | 13                 | 7/8" x 1"             | 26           |                         | 18                         | 9                       | 6                          | 3/8           | 2715               | 649    | 2704   | 650    | 32'-5"       |        |        |
| 33'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 11      | 13                 | 7/8" x 1"             | 24           |                         | 16                         | 9                       | 6                          | 3/8           | 2858               | 670    | 2847   | 670    | 33'-5"       |        |        |
| 34'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 10      | 12                 | 7/8" x 1"             | 22           |                         | 15                         | 8                       | 6                          | 3/8           | 3002               | 690    | 2991   | 691    | 34'-5"       |        |        |
| 35'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 5                        | 3/4                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 7 1/2           | 10      | 11                 | 7/8" x 1"             | 21           |                         | 14                         | 8                       | 5                          | 3/8           | 3148               | 711    | 3137   | 711    | 35'-5"       |        |        |
| 36'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 12                        |                                              | N/A  |       |                        | N/A  |       |                       | N/A  |       |             |       |       | N/A                      |      |       | N/A                         |                                                                  | N/A   |                                          | 8    | 3/4   | 9 1/4           | 18      | 10                 | 7/8" x 1"             | 36           |                         | 33                         | 19                      |                            | 14            | 3/8                | 3295   | 731    | 3284   | 732          | 36'-5" |        |



24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
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Unless otherwise specified,  
dimensions are in inches &  
tolerances are:

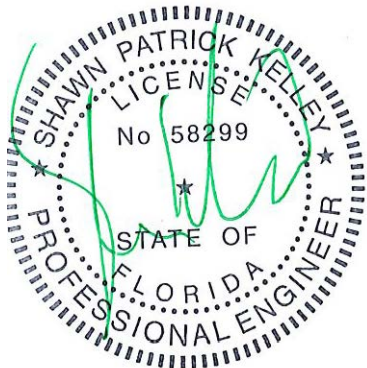
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
SIZE: B  
SCALE: AS NOTED  
SHEET:

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt T22 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |        |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       | N/A   |                     |                                           | 21    | 1 7/8               | 3 1/4                                  | 23    | 2 1/2               | 4                           | 33    | 2 1/2               | 4                                   | 33    | 2 1/2               | 4                     | 5 3/4           | 5'-5"  |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       | N/A   |                     |                                           | 19    | 1 7/8               | 3 1/4                                  | 22    | 2 1/2               | 4                           | 30    | 2 1/2               | 4                                   | 31    | 2 1/2               | 4                     | 5 3/4           | 6'-5"  |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 33         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 34                                       | N/A   |                     |                                           | 18    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 28    | 2 1/2               | 4                                   | 28    | 2 1/2               | 4                     | 5 3/4           | 7'-5"  |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 30                                       | N/A   |                     |                                           | 16    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 27    | 2 1/2               | 4                     | 5 3/4           | 8'-5"  |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            |                                                  | 27                                       | N/A   |                     |                                           | 16    | 1 7/8               | 3 1/4                                  | 18    | 2 1/2               | 4                           | 25    | 2 1/2               | 4                                   | 25    | 2 1/2               | 4                     | 5 3/4           | 9'-5"  |
| 10'-5"                                                                                                | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            |                                                  | 24                                       | N/A   |                     |                                           | 15    | 1 7/8               | 3 1/4                                  | 17    | 2 1/2               | 4                           | 23    | 2 1/2               | 4                                   | 24    | 2 1/2               | 4                     | 5 3/4           | 10'-5" |
| 11'-5"                                                                                                | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 29                                            |                                                  | 22                                       | N/A   |                     |                                           | 14    | 1 7/8               | 3 1/4                                  | 16    | 2 1/2               | 4                           | 22    | 2 1/2               | 4                                   | 23    | 2 1/2               | 4                     | 5 3/4           | 11'-5" |
| 12'-5"                                                                                                | 344               | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 27                                            |                                                  | 21                                       | N/A   |                     |                                           | 14    | 1 7/8               | 3 1/4                                  | 15    | 2 1/2               | 4                           | 22    | 2 1/2               | 4                                   | 22    | 2 1/2               | 4                     | 5 3/4           | 12'-5" |
| 13'-5"                                                                                                | 344               | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       | N/A   |                     |                                           | 15    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 28    | 2 1/2               | 4                                   | 28    | 2 1/2               | 4                     | 5 3/4           | 13'-5" |
| 14'-5"                                                                                                | 344               | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 28                                       | N/A   |                     |                                           | 7     | 1 7/8               | 3 1/4                                  | 14    | 2 1/2               | 4                           | 20    | 2 1/2               | 4                                   | 20    | 2 1/2               | 4                     | 5 3/4           | 14'-5" |
| 15'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 21    | 3 7/8               | 6                                         | 14    | 2 1/2               | 4                                      | 21    | 3 3/4               | 5 1/2                       | 23    | 4 1/4               | 6 3/4                               | 27    | 4                   | 6 1/4                 | 6 13/16         | 15'-5" |
| 16'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 21    | 3 7/8               | 6                                         | 14    | 2 1/2               | 4                                      | 21    | 3 3/4               | 5 1/2                       | 23    | 4 1/4               | 6 3/4                               | 27    | 4                   | 6 1/4                 | 6 13/16         | 16'-5" |
| 17'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 16                  | 4     | 6                   | 21         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       | 17    | 3 7/8               | 6                                         | 9     | 2 1/2               | 4                                      | 18    | 3 3/4               | 5 1/2                       | 20    | 4 1/4               | 6 3/4                               | 24    | 4                   | 6 1/4                 | 6 13/16         | 17'-5" |
| 18'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 10                | 3 5/8 | 6                   | 12                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 30                                       | 14    | 3 7/8               | 6                                         |       |                     | 16                                     | 3 3/4 | 5 1/2               | 13                          | 4 1/4 | 6 3/4               | 21                                  | 4     | 6 1/4               | 6 13/16               | 18'-5"          |        |
| 19'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 35                                            |                                                  | 24                                       | 11    | 3 7/8               | 6                                         |       |                     | 13                                     | 3 3/4 | 5 1/2               | 10                          | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 19'-5"          |        |
| 20'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 29                                            |                                                  | 20                                       | 10    | 3 7/8               | 6                                         |       |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 20'-5"          |        |
| 21'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 17         | 5     | 6 1/4               | 36                                            |                                                  | 35                                       | 16    | 5 1/8               | 7 7/8                                     |       |                     | 10                                     | 4 1/2 | 6                   |                             | N/A   |                     | 18                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 21'-5"          |        |
| 22'-5"                                                                                                | 446               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            |                                                  | 30                                       | 11    | 5 1/8               | 7 7/8                                     |       |                     | 8                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 22'-5"          |        |
| 23'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 10         | 5     | 6 1/4               | 36                                            |                                                  | 26                                       | 9     | 5 1/8               | 7 7/8                                     |       |                     | 7                                      | 4 1/2 | 6                   |                             | N/A   |                     | 9                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 23'-5"          |        |
| 24'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 7          | 5     | 6 1/4               | 34                                            |                                                  | 23                                       | 8     | 5 1/8               | 7 7/8                                     |       |                     | 5                                      | 4 1/2 | 6                   |                             | N/A   |                     | 8                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 24'-5"          |        |
| 25'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 7           | 5     | 7                   |                     | N/A   |                     |            | N/A   |                     | 30                                            |                                                  | 21                                       |       | N/A                 |                                           |       |                     | N/A                                    |       |                     | N/A                         |       | 6                   | 5 1/2                               | 8 1/2 | 6 7/8               | 25'-5"                |                 |        |
| 26'-5"                                                                                                | 548               | 16                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 14         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 18    | 5 3/4               | 8 3/4                                     |       |                     | 10                                     | 5 1/2 | 8                   |                             | N/A   |                     | 25                                  | 6 1/4 | 10                  | 7 1/2                 | 26'-5"          |        |
| 27'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 16    | 5 3/4               | 8 3/4                                     |       |                     | 9                                      | 5 1/2 | 8                   |                             | N/A   |                     | 24                                  | 6 1/4 | 10                  | 7 1/2                 | 27'-5"          |        |
| 28'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 12         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 12    | 5 3/4               | 8 3/4                                     |       |                     | 8                                      | 5 1/2 | 8                   |                             | N/A   |                     | 11                                  | 6 1/4 | 10                  | 7 1/2                 | 28'-5"          |        |
| 29'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 11         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 11    | 5 3/4               | 8 3/4                                     |       |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   |                     | 10                                  | 6 1/4 | 10                  | 7 1/2                 | 29'-5"          |        |
| 30'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 8          | 6 5/8 | 7 7/8               | 36                                            |                                                  | 34                                       | 10    | 5 3/4               | 8 3/4                                     |       |                     | 6                                      | 5 1/2 | 8                   |                             | N/A   |                     | 9                                   | 6 1/4 | 10                  | 7 1/2                 | 30'-5"          |        |
| 31'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 6          | 6 5/8 | 7 7/8               | 36                                            |                                                  | 31                                       | 9     | 5 3/4               | 8 3/4                                     |       |                     | 5                                      | 5 1/2 | 8                   |                             | N/A   |                     | 8                                   | 6 1/4 | 10                  | 7 1/2                 | 31'-5"          |        |
| 32'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            |                                                  | 29                                       | 8     | 5 3/4               | 8 3/4                                     |       |                     |                                        | N/A   |                     |                             | N/A   |                     | 7                                   | 6 1/4 | 10                  | 7 1/2                 | 32'-5"          |        |
| 33'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 6           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            |                                                  | 27                                       | 7     | 5 3/4               | 8 3/4                                     |       |                     |                                        | N/A   |                     |                             | N/A   |                     | 6                                   | 6 1/4 | 10                  | 7 1/2                 | 33'-5"          |        |
| 34'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 5           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            |                                                  | 25                                       |       | N/A                 |                                           |       |                     | N/A                                    |       |                     | N/A                         |       | 5                   | 6 1/4                               | 10    | 7 1/2               | 34'-5"                |                 |        |
| 35'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     |             | N/A   |                     |                     | N/A   |                     |            | N/A   |                     | 34                                            |                                                  | 23                                       |       | N/A                 |                                           |       |                     | N/A                                    |       |                     | N/A                         |       |                     | N/A                                 |       |                     | 7 1/2                 | 35'-5"          |        |
| 36'-5"                                                                                                | DC6               | 9                     | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 9          | 6 5/8 | 7 7/8               | 36                                            |                                                  | 33                                       | 10    | 5 3/4               | 8 3/4                                     | 8     | 4 1/2               | 6                                      | 7     | 5 1/2               | 8                           |       | N/A                 |                                     | 8     | 6 1/4               | 10                    | 9 1/4           | 36'-5" |



24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
MOUNTAINTOP, PA GOODYEAR, AZ  
  
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TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
DWG NO: ES-16-137-CIW

Unless otherwise specified,  
dimensions are in inches &  
tolerances are:  
  
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

SIZE: B  
SCALE: AS NOTED  
SHEET: 27/58

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 50 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |                        |          |      |                       |          |      |             |          |      |                          |          |      |                             |          |      |                                                                  |          |      |                 |          |                    |         |               |                       |              |                         |                            |                         |                            |               |        |        |              |        |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|------------------------|----------|------|-----------------------|----------|------|-------------|----------|------|--------------------------|----------|------|-----------------------------|----------|------|------------------------------------------------------------------|----------|------|-----------------|----------|--------------------|---------|---------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------|--------------|--------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |                        |          |      |                       |          |      |             |          |      |                          |          |      |                             |          |      | Steel (Wall anchors are the same diameter as assembly fasteners) |          |      |                 |          |                    |         |               |                       |              |                         |                            |                         |                            |               |        |        |              |        |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      | Powers Power-Stud+ SD1 |          |      | Simpson Strong-Bolt 2 |          |      | Hilti KH-EZ |          |      | Simpson Strong-Tie Titen |          |      | Hilti KH-EZ Stainless Steel |          |      | Simpson Strong-Tie Titen Stainless Steel                         |          |      | Through Bolting |          | Min. Edge Distance | Welded  |               | Through Bolt          |              | Tapped Bolt             |                            |                         | Superimposed Loads         |               |        |        | D.B.G. Up To |        |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed                  | Max O.C. | Dia. | Embed                 | Max O.C. | Dia. | Embed       | Max O.C. | Dia. | Embed                    | Max O.C. | Dia. | Embed                       | Max O.C. | Dia. | Embed                                                            | Max O.C. | Dia. | Embed           | Max O.C. |                    | Dia.    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) | Vy (+) |              | Vx (-) | Vy (-) |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3                      | 9        | 5/8  | 3 3/8                 | 12       | 5/8  | 4 3/8       | 17       | 3/8  | 3 1/4                    | 12       | 5/8  | 4 1/2                       | 16       | 3/8  | 3 1/4                                                            | 12       | 5/8  | 4 1/2           | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 3/16                       | 0             | 138    | 0      | 135          | 5'-5"  |        |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3                      | 8        | 5/8  | 3 3/8                 | 10       | 5/8  | 4 3/8       | 14       | 3/8  | 3 1/4                    | 13       | 3/4  | 5 1/2                       | 14       | 3/8  | 3 1/4                                                            | 9        | 3/4  | 5 1/2           | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 3/16                       | 0             | 163    | 0      | 160          | 6'-5"  |        |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 1/2  | 3 3/4                  | N/A      | N/A  | N/A                   | 9        | 5/8  | 4 3/8       | 12       | 3/8  | 3 1/4                    | 12       | 3/4  | 5 1/2                       | 12       | 3/8  | 3 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 3/16                       | 0             | 188    | 0      | 185          | 7'-5"  |        |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2                  | N/A      | N/A  | N/A                   | 8        | 5/8  | 4 3/8       | 11       | 3/8  | 3 1/4                    | N/A      | N/A  | N/A                         | 10       | 3/8  | 3 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 3/16                       | 0             | 213    | 0      | 210          | 8'-5"  |        |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2                  | N/A      | N/A  | N/A                   | 8        | 3/4  | 5 1/4       | 9        | 3/8  | 3 1/4                    | N/A      | N/A  | N/A                         | 8        | 3/8  | 3 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 3/16                       | 0             | 238    | 0      | 235          | 9'-5"  |        |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 14                                           | 3/4  | 5 1/2                  | N/A      | N/A  | N/A                   | 8        | 3/8  | 3 1/4       | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | 12       | 1/2  | 4 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 36                      | 3/16                       | 0             | 263    | 0      | 260          | 10'-5" |        |
| 11'-5"                                                                                | 1 1/4                  | 0.469 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 8                                            | 3/8  | 3                      | N/A      | N/A  | N/A                   | 8        | 5/8  | 4 3/8       | 15       | 3/8  | 3 1/4                    | N/A      | N/A  | N/A                         | 15       | 3/8  | 3 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                         | 20                      | 17                         | 3/16          | 145    | 287    | 100          | 286    | 11'-5" |
| 12'-5"                                                                                | 1 3/8                  | 0.594 | CP0629          | 344            | 12                       | 3/8                        | 17                        | 9                                            | 1/2  | 3 3/4                  | 9        | 5/8  | 3 3/8                 | 11       | 5/8  | 4 3/8       | 12       | 3/8  | 3 1/4                    | 15       | 3/4  | 5 1/2                       | 12       | 3/8  | 3 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 27            | 36                    | 7/16" x 5/8" | 25                      | 20                         | 9                       | 7                          | 3/16          | 353    | 312    | 317          | 311    | 12'-5" |
| 13'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 13                        | 8                                            | 5/8  | 4 1/2                  | N/A      | N/A  | N/A                   | 8        | 3/4  | 5 1/4       | 8        | 3/8  | 3 1/4                    | N/A      | N/A  | N/A                         | 12       | 1/2  | 4 1/4                                                            | N/A      | N/A  | N/A             | 8        | 3/8                | 5 3/4   | 18            | 33                    | 7/16" x 5/8" | 17                      | 12                         | 6                       | 5                          | 3/16          | 537    | 337    | 507          | 336    | 13'-5" |
| 14'-5"                                                                                | 1 3/4                  | 0.969 | CP0629          | 445            | 10                       | 1/2                        | 17                        | 10                                           | 3/4  | 5 1/2                  | N/A      | N/A  | N/A                   | 9        | 1/2  | 4 1/4       | N/A      | 8    | 1/2                      | 4 1/4    | N/A  | N/A                         | 8        | 1/2  | 4 1/4                                                            | N/A      | N/A  | N/A             | 8        | 1/2                | 6 13/16 | 19            | 29                    | 9/16" x 3/4" | 26                      | 20                         | 9                       | 6                          | 1/4           | 844    | 385    | 825          | 386    | 14'-5" |
| 15'-5"                                                                                | 1 3/4                  | 0.969 | CP0629          | 445            | 10                       | 1/2                        | 17                        | 10                                           | 3/4  | 5 1/2                  | N/A      | N/A  | N/A                   | 9        | 1/2  | 4 1/4       | N/A      | 8    | 1/2                      | 4 1/4    | N/A  | N/A                         | 8        | 1/2  | 4 1/4                                                            | N/A      | N/A  | N/A             | 8        | 1/2                | 6 13/16 | 19            | 29                    | 9/16" x 3/4" | 26                      | 20                         | 9                       | 6                          | 1/4           | 844    | 385    | 825          | 386    | 15'-5" |
| 16'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 15                        | 9                                            | 3/4  | 5 1/2                  | N/A      | N/A  | N/A                   | 8        | 1/2  | 4 1/4       | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | 8        | 1/2  | 4 1/4                                                            | N/A      | N/A  | N/A             | 8        | 1/2                | 6 13/16 | 17            | 26                    | 9/16" x 3/4" | 23                      | 17                         | 8                       | 6                          | 1/4           | 934    | 410    | 919          | 411    | 16'-5" |
| 17'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 13                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | 8        | 3/4  | 6 1/4       | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | N/A  | N/A             | 8        | 1/2                | 6 13/16 | 14            | 22                    | 9/16" x 3/4" | 18                      | 13                         | 6                       | 5                          | 1/4           | 1148   | 435    | 1133         | 436    | 17'-5" |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 11                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8               | 1/2      | 6 13/16            | 11      | 18            | 9/16" x 3/4"          | 14           | 10                      | 5                          | N/A                     | 1/4                        | 1355          | 460    | 1341   | 461          | 18'-5" |        |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 16                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8               | 5/8      | 6 7/8              | 12      | 19            | 11/16" x 7/8"         | 21           | 15                      | 7                          | 5                       | 5/16                       | 1558          | 485    | 1544   | 486          | 19'-5" |        |
| 20'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 5/8             | 6 7/8    | 10                 | 16      | 11/16" x 7/8" | 18                    | 13           | 6                       | N/A                        | 5/16                    | 1757                       | 510           | 1743   | 511    | 20'-5"       |        |        |
| 21'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 5/8             | 6 7/8    | 9                  | 15      | 11/16" x 7/8" | 16                    | 11           | 6                       | N/A                        | 5/16                    | 1954                       | 535           | 1940   | 537    | 21'-5"       |        |        |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 18                 | 21      | 7/8" x 1"     | 36                    | 32           | 14                      | 10                         | 3/8                     | 1735                       | 559           | 1721   | 560    | 22'-5"       |        |        |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 17                 | 19      | 7/8" x 1"     | 36                    | 29           | 13                      | 9                          | 3/8                     | 1902                       | 584           | 1889   | 585    | 23'-5"       |        |        |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 15                 | 17      | 7/8" x 1"     | 35                    | 26           | 12                      | 8                          | 3/8                     | 2069                       | 610           | 2056   | 610    | 24'-5"       |        |        |
| 25'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 14                 | 16      | 7/8" x 1"     | 32                    | 23           | 11                      | 8                          | 3/8                     | 2237                       | 635           | 2223   | 635    | 25'-5"       |        |        |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 13                 | 15      | 7/8" x 1"     | 30                    | 21           | 10                      | 7                          | 3/8                     | 2404                       | 660           | 2391   | 661    | 26'-5"       |        |        |
| 27'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 12                 | 14      | 7/8" x 1"     | 27                    | 19           | 10                      | 7                          | 3/8                     | 2573                       | 685           | 2559   | 686    | 27'-5"       |        |        |
| 28'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 11                 | 13      | 7/8" x 1"     | 25                    | 17           | 9                       | 6                          | 3/8                     | 2742                       | 711           | 2729   | 711    | 28'-5"       |        |        |
| 29'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 11                 | 12      | 7/8" x 1"     | 23                    | 16           | 8                       | 6                          | 3/8                     | 2913                       | 736           | 2899   | 737    | 29'-5"       |        |        |
| 30'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 5                        | 3/4                        | 12                        | N/A                                          | N/A  | N/A                    | N/A      | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                      | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                                                              | N/A      | 8    | 3/4             | 7 1/2    | 10                 | 12      | 7/8" x 1"     | 21                    | 15           | 8                       | 6                          | 3/8                     | 3085                       | 762           | 3071   | 762    | 30'-5"       |        |        |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 50 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |          |                                  |                  |        |                    |              |  |  |  |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|-------|--------------------------------------------|----------|---------------------------------------|------------------|----------|----------------------------------------|------------------|----------|-------------------------------------|------------------|----------|-----------------------------|------------------|----------|----------------------------------|------------------|--------|--------------------|--------------|--|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |          |                                  |                  |        |                    |              |  |  |  |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T22 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. |       | Through Bolting - Stainless Steel Max O.C. |          | Simpson Strong-Bolt 2 Stainless Steel |                  |          | Powers Power-Stud+ SD4 Stainless Steel |                  |          | Hilti Kwik Bolt T22 Stainless Steel |                  |          | Hilti KH-EZ Stainless Steel |                  |          | Simpson Titen HD Stainless Steel |                  |        | Min. Edge Distance | D.B.G. Up To |  |  |  |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. | Max O.C.                                | Embed | Min. Wall Thick.                           | Max O.C. | Embed                                 | Min. Wall Thick. | Max O.C. | Embed                                  | Min. Wall Thick. | Max O.C. | Embed                               | Min. Wall Thick. | Max O.C. | Embed                       | Min. Wall Thick. | Max O.C. | Embed                            | Min. Wall Thick. |        |                    |              |  |  |  |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 21                | 2 3/8 | 4                | 20                     | 2 3/8 | 3 3/4            | 21                  | 2 1/2 | 4                | 28          | 2 1/2 | 4                | 20                  | 2 1/4 | 4                | 36         | 3 1/2 | 4 3/4            | 36                                      |       | 36                                         |          | N/A                                   |                  |          | 18                                     | 1 7/8            | 3 1/4    | 21                                  | 2 1/2            | 4        | 29                          | 2 1/2            | 4        | 30                               | 2 1/2            | 4      | 5 3/4              | 5'-5"        |  |  |  |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 19                | 2 3/8 | 4                | 19                     | 2 3/8 | 3 3/4            | 20                  | 2 1/2 | 4                | 26          | 2 1/2 | 4                | 17                  | 2 1/4 | 4                | 30         | 3 1/2 | 4 3/4            | 36                                      |       | 32                                         |          | N/A                                   |                  |          | 17                                     | 1 7/8            | 3 1/4    | 19                                  | 2 1/2            | 4        | 27                          | 2 1/2            | 4        | 27                               | 2 1/2            | 4      | 5 3/4              | 6'-5"        |  |  |  |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 18                | 2 3/8 | 4                | 17                     | 2 3/8 | 3 3/4            | 18                  | 2 1/2 | 4                | 24          | 2 1/2 | 4                | 15                  | 2 1/4 | 4                | 26         | 3 1/2 | 4 3/4            | 35                                      |       | 27                                         |          | N/A                                   |                  |          | 16                                     | 1 7/8            | 3 1/4    | 18                                  | 2 1/2            | 4        | 25                          | 2 1/2            | 4        | 25                               | 2 1/2            | 4      | 5 3/4              | 7'-5"        |  |  |  |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 17                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 23         | 3 1/2 | 4 3/4            | 31                                      |       | 24                                         |          | N/A                                   |                  |          | 15                                     | 1 7/8            | 3 1/4    | 17                                  | 2 1/2            | 4        | 23                          | 2 1/2            | 4        | 24                               | 2 1/2            | 4      | 5 3/4              | 8'-5"        |  |  |  |
| 9'-5"                                                                                                 | 344*           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 15                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 12                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 28                                      |       | 21                                         |          | N/A                                   |                  |          | 14                                     | 1 7/8            | 3 1/4    | 16                                  | 2 1/2            | 4        | 22                          | 2 1/2            | 4        | 22                               | 2 1/2            | 4      | 5 3/4              | 9'-5"        |  |  |  |
| 10'-5"                                                                                                | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 18         | 3 1/2 | 4 3/4            | 25                                      |       | 19                                         |          | N/A                                   |                  |          | 13                                     | 1 7/8            | 3 1/4    | 15                                  | 2 1/2            | 4        | 21                          | 2 1/2            | 4        | 21                               | 2 1/2            | 4      | 5 3/4              | 10'-5"       |  |  |  |
| 11'-5"                                                                                                | 344            | N/A                   |       |                  | 19                | 2 3/8 | 4                | 19                     | 2 3/8 | 3 3/4            | 20                  | 2 1/2 | 4                | 24          | 2 1/2 | 4                | 17                  | 2 1/4 | 4                | 27         | 3 1/2 | 4 3/4            | 34                                      |       | 27                                         |          | N/A                                   |                  |          | 15                                     | 1 7/8            | 3 1/4    | 19                                  | 2 1/2            | 4        | 27                          | 2 1/2            | 4        | 27                               | 2 1/2            | 4      | 5 3/4              | 11'-5"       |  |  |  |
| 12'-5"                                                                                                | 344            | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 14                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 36                                      |       | 36                                         |          | N/A                                   |                  |          | 11                                     | 1 7/8            | 3 1/4    | 17                                  | 2 1/2            | 4        | 23                          | 2 1/2            | 4        | 23                               | 2 1/2            | 4      | 5 3/4              | 12'-5"       |  |  |  |
| 13'-5"                                                                                                | 344            | N/A                   |       |                  | 11                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 17          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 15         | 3 1/2 | 4 3/4            | 35                                      |       | 25                                         |          | N/A                                   |                  |          | 6                                      | 1 7/8            | 3 1/4    | 14                                  | 2 1/2            | 4        | 18                          | 2 1/2            | 4        | 18                               | 2 1/2            | 4      | 5 3/4              | 13'-5"       |  |  |  |
| 14'-5"                                                                                                | 445            | 17                    | 3 7/8 | 6                | 14                | 3 5/8 | 6                | 14                     | 3 3/4 | 6                | 17                  | 3 3/4 | 5 1/2            | 20          | 4 1/4 | 6 3/4            | 14                  | 4     | 6                | 19         | 4 1/4 | 5 1/2            | 36                                      |       | 36                                         |          | 16                                    | 3 7/8            | 6        | N/A                                    |                  |          | 17                                  | 3 3/4            | 5 1/2    | 16                          | 4 1/4            | 6 3/4    | 22                               | 4                | 6 1/4  | 6 13/16            | 14'-5"       |  |  |  |
| 15'-5"                                                                                                | 445            | 17                    | 3 7/8 | 6                | 14                | 3 5/8 | 6                | 14                     | 3 3/4 | 6                | 17                  | 3 3/4 | 5 1/2            | 20          | 4 1/4 | 6 3/4            | 14                  | 4     | 6                | 19         | 4 1/4 | 5 1/2            | 36                                      |       | 36                                         |          | 16                                    | 3 7/8            | 6        | N/A                                    |                  |          | 17                                  | 3 3/4            | 5 1/2    | 16                          | 4 1/4            | 6 3/4    | 22                               | 4                | 6 1/4  | 6 13/16            | 15'-5"       |  |  |  |
| 16'-5"                                                                                                | 445            | 16                    | 3 7/8 | 6                | 11                | 3 5/8 | 6                | 13                     | 3 3/4 | 6                | 15                  | 3 3/4 | 5 1/2            | 19          | 4 1/4 | 6 3/4            | 13                  | 4     | 6                | 17         | 4 1/4 | 5 1/2            | 36                                      |       | 31                                         |          | 14                                    | 3 7/8            | 6        | N/A                                    |                  |          | 16                                  | 3 3/4            | 5 1/2    | 14                          | 4 1/4            | 6 3/4    | 21                               | 4                | 6 1/4  | 6 13/16            | 16'-5"       |  |  |  |
| 17'-5"                                                                                                | 445            | 13                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 17          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 14         | 4 1/4 | 5 1/2            | 34                                      |       | 24                                         |          | 11                                    | 3 7/8            | 6        | N/A                                    |                  |          | 9                                   | 3 3/4            | 5 1/2    | 9                           | 4 1/4            | 6 3/4    | 7                                | 4                | 6 1/4  | 6 13/16            | 17'-5"       |  |  |  |
| 18'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 7                 | 3 5/8 | 6                | 8                      | 3 3/4 | 6                | 7                   | 3 3/4 | 5 1/2            | 9           | 4 1/4 | 6 3/4            | 9                   | 4     | 6                | 12         | 4 1/4 | 5 1/2            | 28                                      |       | 19                                         |          | 9                                     | 3 7/8            | 6        | N/A                                    |                  |          | 9                                   | 3 3/4            | 5 1/2    | 9                           | 4 1/4            | 6 3/4    | 7                                | 4                | 6 1/4  | 6 13/16            | 18'-5"       |  |  |  |
| 19'-5"                                                                                                | 446            | 16                    | 5 1/8 | 7 7/8            | 9                 | 4 1/2 | 6                | 9                      | 4 5/8 | 7                | 9                   | 4 1/2 | 6                | 16          | 5     | 7                | N/A                 |       |                  | 13         | 5     | 6 1/4            | 36                                      |       | 32                                         |          | 11                                    | 5 1/8            | 7 7/8    | N/A                                    |                  |          | 9                                   | 4 1/2            | 6        | N/A                         |                  |          | 10                               | 5 1/2            | 8 1/2  | 6 7/8              | 19'-5"       |  |  |  |
| 20'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       |                  | 11         | 5     | 6 1/4            | 36                                      |       | 27                                         |          | 10                                    | 5 1/8            | 7 7/8    | N/A                                    |                  |          | 7                                   | 4 1/2            | 6        | N/A                         |                  |          | 9                                | 5 1/2            | 8 1/2  | 6 7/8              | 20'-5"       |  |  |  |
| 21'-5"                                                                                                | 546            | 9                     | 5 1/8 | 7 7/8            | 6                 | 4 1/2 | 6                | 5                      | 4 5/8 | 7                | 5                   | 4 1/2 | 6                | 9           | 5     | 7                | N/A                 |       |                  | 7          | 5     | 6 1/4            | 34                                      |       | 23                                         |          | 8                                     | 5 1/8            | 7 7/8    | N/A                                    |                  |          | 5                                   | 4 1/2            | 6        | N/A                         |                  |          | 8                                | 5 1/2            | 8 1/2  | 6 7/8              | 21'-5"       |  |  |  |
| 22'-5"                                                                                                | 548            | 17                    | 5 3/4 | 8 3/4            | 11                | 5 1/2 | 8                | 7                      | 5 5/8 | 10               | 19                  | 5 1/2 | 8                | 19          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 20         | 6 5/8 | 7 7/8            | 36                                      |       | 36                                         |          | 19                                    | 5 3/4            | 8 3/4    | N/A                                    |                  |          | 11                                  | 5 1/2            | 8        | N/A                         |                  |          | 26                               | 6 1/4            | 10     | 7 1/2              | 22'-5"       |  |  |  |
| 23'-5"                                                                                                | 548            | 13                    | 5 3/4 | 8 3/4            | 9                 | 5 1/2 | 8                | N/A                    |       |                  | 11                  | 5 1/2 | 8                | 18          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 14         | 6 5/8 | 7 7/8            | 36                                      |       | 36                                         |          | 17                                    | 5 3/4            | 8 3/4    | N/A                                    |                  |          | 10                                  | 5 1/2            | 8        | N/A                         |                  |          | 24                               | 6 1/4            | 10     | 7 1/2              | 23'-5"       |  |  |  |
| 24'-5"                                                                                                | 548            | 12                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    |       |                  | 10                  | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      |       | 36                                         |          | 12                                    | 5 3/4            | 8 3/4    | N/A                                    |                  |          | 9                                   | 5 1/2            | 8        | N/A                         |                  |          | 11                               | 6 1/4            | 10     | 7 1/2              | 24'-5"       |  |  |  |
| 25'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 10          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 11         | 6 5/8 | 7 7/8            | 36                                      |       | 36                                         |          | 11                                    | 5 3/4            | 8 3/4    | N/A                                    |                  |          | 7                                   | 5 1/2            | 8        | N/A                         |                  |          | 10                               | 6 1/4            | 10     | 7 1/2              | 25'-5"       |  |  |  |
| 26'-5"                                                                                                | 548            | 9                     | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 8          | 6 5/8 | 7 7/8            | 36                                      |       | 34                                         |          | 10                                    | 5 3/4            | 8 3/4    | N/A                                    |                  |          | 6                                   | 5 1/2            | 8        | N/A                         |                  |          | 9                                | 6 1/4            | 10     | 7 1/2              | 26'-5"       |  |  |  |
| 27'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 6                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 6          | 6 5/8 | 7 7/8            | 36                                      |       | 31                                         |          | 9                                     | 5 3/4            | 8 3/4    | N/A                                    |                  |          | 5                                   | 5 1/2            | 8        | N/A                         |                  |          | 8                                | 6 1/4            | 10     | 7 1/2              | 27'-5"       |  |  |  |
| 28'-5"                                                                                                | 648            | 7                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   | 5 1/2 | 8                | 7           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      |       | 28                                         |          | 8                                     | 5 3/4            | 8 3/4    | N/A                                    |                  |          | N/A                                 |                  |          | 7                           | 6 1/4            | 10       | 7 1/2                            | 28'-5"           |        |                    |              |  |  |  |
| 29'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      |       | 26                                         |          | 7                                     | 5 3/4            | 8 3/4    | N/A                                    |                  |          | N/A                                 |                  |          | 5                           | 6 1/4            | 10       | 7 1/2                            | 29'-5"           |        |                    |              |  |  |  |
| 30'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | N/A         |       |                  | N/A                 |       |                  | N/A        |       |                  | 35                                      |       | 24                                         |          | N/A                                   |                  |          | N/A                                    |                  |          | N/A                                 |                  |          | N/A                         |                  |          | 7                                | 1/2              | 30'-5" |                    |              |  |  |  |

|      |                         |            |     |        |
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| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 60 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                                                                  |      |       |                                          |      |       |                 |      |                    |               |          |              |               |                       |           |                         |                            |                         |                            |               |              |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|--------------------------|------|-------|------------------------------------------------------------------|------|-------|------------------------------------------|------|-------|-----------------|------|--------------------|---------------|----------|--------------|---------------|-----------------------|-----------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |       |                                          |      |       |                 |      |                    |               |          |              |               |                       |           |                         |                            |                         |                            |               |              |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel                                      |      |       | Simpson Strong-Tie Titen Stainless Steel |      |       | Through Bolting |      | Min. Edge Distance | Welded        |          | Through Bolt |               | Tapped Bolt           |           |                         | Superimposed Loads         |                         |                            |               | D.B.G. Up To |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                                                         | Dia. | Embed | Max O.C.                                 | Dia. | Embed | Max O.C.        | Dia. |                    | Embed         | Max O.C. | Dia.         | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness |              | Vx (+) |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3     | 8                      | 5/8  | 3 3/8 | 10                    | 5/8  | 4 3/8 | 14          | 3/8  | 3 1/4 | 13                       | 3/4  | 5 1/2 | 14                                                               | 3/8  | 3 1/4 | 8                                        | 3/4  | 5 1/2 | 8               | 3/8  | 5 3/4              | 36            | 36       | 7/16" x 5/8" | 36            | 36                    | 36        | 36                      | 3/16                       | 0                       | 165                        | 0             | 163          | 5'-5"  |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 5/8  | 4 1/2 | N/A                    |      |       | 8                     | 5/8  | 4 3/8 | 12          | 3/8  | 3 1/4 | N/A                      |      |       | 11                                                               | 3/8  | 3 1/4 | N/A                                      | 8    | 3/8   | 5 3/4           | 36   | 36                 | 7/16" x 5/8"  | 36       | 36           | 36            | 36                    | 3/16      | 0                       | 195                        | 0                       | 193                        | 6'-5"         |              |        |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 | N/A                    |      |       | 8                     | 3/4  | 5 1/4 | 10          | 3/8  | 3 1/4 | N/A                      |      |       | 10                                                               | 3/8  | 3 1/4 | N/A                                      | 8    | 3/8   | 5 3/4           | 36   | 36                 | 7/16" x 5/8"  | 36       | 36           | 36            | 36                    | 3/16      | 0                       | 225                        | 0                       | 223                        | 7'-5"         |              |        |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 9           | 3/8  | 3 1/4 | N/A                      |      |       | 12                                                               | 1/2  | 4 1/4 | N/A                                      | 8    | 3/8   | 5 3/4           | 36   | 36                 | 7/16" x 5/8"  | 36       | 36           | 36            | 36                    | 3/16      | 0                       | 255                        | 0                       | 253                        | 8'-5"         |              |        |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 8           | 3/8  | 3 1/4 | N/A                      |      |       | 11                                                               | 1/2  | 4 1/4 | N/A                                      | 8    | 3/8   | 5 3/4           | 36   | 36                 | 7/16" x 5/8"  | 36       | 36           | 36            | 36                    | 3/16      | 0                       | 285                        | 0                       | 283                        | 9'-5"         |              |        |
| 10'-5"                                                                                | 1 1/8                  | 0.344 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 8                                            | 3/8  | 3     | N/A                    |      |       | 9                     | 5/8  | 4 3/8 | 16          | 3/8  | 3 1/4 | 12                       | 3/4  | 5 1/2 | 16                                                               | 3/8  | 3 1/4 | N/A                                      | 8    | 3/8   | 5 3/4           | 36   | 36                 | 7/16" x 5/8"  | 36       | 32           | 15            | 12                    | 3/16      | 208                     | 315                        | 147                     | 313                        | 10'-5"        |              |        |
| 11'-5"                                                                                | 1 3/16                 | 0.407 | CP0629          | 344            | 12                       | 3/8                        | 13                        | 13                                           | 3/4  | 5 1/2 | N/A                    |      |       | 8                     | 3/4  | 5 1/4 | 13          | 1/2  | 4 1/4 | N/A                      |      |       | 10                                                               | 1/2  | 4 1/4 | N/A                                      | 8    | 3/8   | 5 3/4           | 17   | 29                 | 7/16" x 5/8"  | 16       | 11           | 6             | 5                     | 3/16      | 563                     | 345                        | 513                     | 343                        | 11'-5"        |              |        |
| 12'-5"                                                                                | 1 5/16                 | 0.469 | CP0630 & CP0647 | DC4            | 12                       | 1/2                        | 18                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | 8           | 1/2  | 4 1/4 | N/A                      |      |       | 8                                                                | 1/2  | 4 1/4 | N/A                                      | 8    | 1/2   | 6 1/4           | 12   | 12                 | 9/16" x 3/4"  | 12       | 7            | 12            | 7                     | 1/4       | 915                     | 406                        | 870                     | 405                        | 12'-5"        |              |        |
| 13'-5"                                                                                | 1 7/16                 | 0.594 | CP0630          | 445            | 10                       | 1/2                        | 16                        | 8                                            | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 8           | 1/2  | 4 1/4 | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 1/2   | 6 13/16         | 16   | 23                 | 9/16" x 3/4"  | 21       | 15           | 7             | 5                     | 1/4       | 1010                    | 404                        | 979                     | 404                        | 13'-5"        |              |        |
| 14'-5"                                                                                | 1 1/2                  | 0.656 | CP0630          | 445            | 8                        | 1/2                        | 13                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 1/2   | 6 13/16         | 13   | 19                 | 9/16" x 3/4"  | 16       | 11           | 6             | N/A                   | 1/4       | 1250                    | 434                        | 1222                    | 434                        | 14'-5"        |              |        |
| 15'-5"                                                                                | 1 3/4                  | 0.906 | CP0630          | 445            | 8                        | 1/2                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 1/2   | 6 13/16         | 13   | 20                 | 9/16" x 3/4"  | 17       | 11           | 6             | N/A                   | 1/4       | 1222                    | 463                        | 1200                    | 464                        | 15'-5"        |              |        |
| 16'-5"                                                                                | 1 7/8                  | 1.031 | CP0630          | 445            | 8                        | 1/2                        | 11                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 1/2   | 6 13/16         | 11   | 18                 | 9/16" x 3/4"  | 14       | 9            | 5             | N/A                   | 1/4       | 1360                    | 492                        | 1341                    | 493                        | 16'-5"        |              |        |
| 17'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 16                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 5/8   | 6 7/8           | 12   | 19                 | 11/16" x 7/8" | 22       | 16           | 8             | 5                     | 5/16      | 1490                    | 522                        | 1473                    | 523                        | 17'-5"        |              |        |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 5/8   | 6 7/8           | 11   | 17                 | 11/16" x 7/8" | 19       | 13           | 6             | 5                     | 5/16      | 1726                    | 552                        | 1710                    | 553                        | 18'-5"        |              |        |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 5/8   | 6 7/8           | 9    | 15                 | 11/16" x 7/8" | 16       | 11           | 6             | N/A                   | 5/16      | 1959                    | 582                        | 1943                    | 584                        | 19'-5"        |              |        |
| 20'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 18   | 20                 | 7/8" x 1"     | 36       | 31           | 14            | 10                    | 3/8       | 1757                    | 611                        | 1740                    | 611                        | 20'-5"        |              |        |
| 21'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 16   | 18                 | 7/8" x 1"     | 36       | 28           | 13            | 9                     | 3/8       | 1953                    | 641                        | 1937                    | 641                        | 21'-5"        |              |        |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 15   | 17                 | 7/8" x 1"     | 33       | 25           | 11            | 8                     | 3/8       | 2149                    | 671                        | 2133                    | 672                        | 22'-5"        |              |        |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 13   | 15                 | 7/8" x 1"     | 30       | 22           | 10            | 7                     | 3/8       | 2344                    | 702                        | 2328                    | 702                        | 23'-5"        |              |        |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 12   | 14                 | 7/8" x 1"     | 28       | 20           | 10            | 7                     | 3/8       | 2540                    | 732                        | 2524                    | 732                        | 24'-5"        |              |        |
| 25'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 11   | 13                 | 7/8" x 1"     | 25       | 17           | 9             | 6                     | 3/8       | 2736                    | 762                        | 2720                    | 763                        | 25'-5"        |              |        |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                                                              |      |       | N/A                                      | 8    | 3/4   | 7 1/2           | 11   | 12                 | 7/8" x 1"     | 23       | 16           | 8             | 6                     | 3/8       | 2933                    | 793                        | 2918                    | 793                        | 26'-5"        |              |        |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 60 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |       |                  |                    |              |        |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|-------|------------------|----------------------------------------|-------|------------------|-------------------------------------|-------|------------------|-----------------------------|-------|------------------|----------------------------------|-------|------------------|--------------------|--------------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |       |                  |                    |              |        |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T22 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. | Through Bolting - Stainless Steel Max O.C. | Simpson Strong-Bolt 2 Stainless Steel |       |                  | Powers Power-Stud+ SD4 Stainless Steel |       |                  | Hilti Kwik Bolt T22 Stainless Steel |       |                  | Hilti KH-EZ Stainless Steel |       |                  | Simpson Titen HD Stainless Steel |       |                  | Min. Edge Distance | D.B.G. Up To |        |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. |                                         |                                            | Max O.C.                              | Embed | Min. Wall Thick. | Max O.C.                               | Embed | Min. Wall Thick. | Max O.C.                            | Embed | Min. Wall Thick. | Max O.C.                    | Embed | Min. Wall Thick. | Max O.C.                         | Embed | Min. Wall Thick. |                    |              |        |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 19                | 2 3/8 | 4                | 19                     | 2 3/8 | 3 3/4            | 19                  | 2 1/2 | 4                | 25          | 2 1/2 | 4                | 17                  | 2 1/4 | 4                | 30         | 3 1/2 | 4 3/4            | 36                                      |                                            | 31                                    | N/A   |                  |                                        | 17    | 1 7/8            | 3 1/4                               | 19    | 2 1/2            | 4                           | 27    | 2 1/2            | 4                                | 27    | 2 1/2            | 4                  | 5 3/4        | 5'-5"  |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 18                | 2 3/8 | 4                | 17                     | 2 3/8 | 3 3/4            | 18                  | 2 1/2 | 4                | 23          | 2 1/2 | 4                | 14                  | 2 1/4 | 4                | 25         | 3 1/2 | 4 3/4            | 34                                      |                                            | 26                                    | N/A   |                  |                                        | 15    | 1 7/8            | 3 1/4                               | 17    | 2 1/2            | 4                           | 24    | 2 1/2            | 4                                | 25    | 2 1/2            | 4                  | 5 3/4        | 6'-5"  |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 12                  | 2 1/4 | 4                | 22         | 3 1/2 | 4 3/4            | 29                                      |                                            | 23                                    | N/A   |                  |                                        | 14    | 1 7/8            | 3 1/4                               | 16    | 2 1/2            | 4                           | 23    | 2 1/2            | 4                                | 23    | 2 1/2            | 4                  | 5 3/4        | 7'-5"  |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 19         | 3 1/2 | 4 3/4            | 26                                      |                                            | 20                                    | N/A   |                  |                                        | 13    | 1 7/8            | 3 1/4                               | 15    | 2 1/2            | 4                           | 21    | 2 1/2            | 4                                | 22    | 2 1/2            | 4                  | 5 3/4        | 8'-5"  |
| 9'-5"                                                                                                 | 344*           | N/A                   |       |                  | 14                | 2 3/8 | 4                | 13                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 17         | 3 1/2 | 4 3/4            | 23                                      |                                            | 18                                    | N/A   |                  |                                        | 13    | 1 7/8            | 3 1/4                               | 14    | 2 1/2            | 4                           | 20    | 2 1/2            | 4                                | 20    | 2 1/2            | 4                  | 5 3/4        | 9'-5"  |
| 10'-5"                                                                                                | 344            | N/A                   |       |                  | 18                | 2 3/8 | 4                | 18                     | 2 3/8 | 3 3/4            | 19                  | 2 1/2 | 4                | 24          | 2 1/2 | 4                | 17                  | 2 1/4 | 4                | 25         | 3 1/2 | 4 3/4            | 36                                      |                                            | 29                                    | N/A   |                  |                                        | 14    | 1 7/8            | 3 1/4                               | 19    | 2 1/2            | 4                           | 26    | 2 1/2            | 4                                | 26    | 2 1/2            | 4                  | 5 3/4        | 10'-5" |
| 11'-5"                                                                                                | 344            | N/A                   |       |                  | 10                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 16          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 13         | 3 1/2 | 4 3/4            | 36                                      |                                            | 25                                    | N/A   |                  |                                        | 13    | 1 7/8            | 3 1/4                               | 19    | 2 1/2            | 4                           | 15    | 2 1/2            | 4                                | 15    | 2 1/2            | 4                  | 5 3/4        | 11'-5" |
| 12'-5"                                                                                                | DC4            | 15                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 16         | 4 1/4 | 5 1/2            | 36                                      |                                            | 18                                    | 13    | 3 7/8            | 6                                      |       | N/A              | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 5 3/4              | 12'-5"       |        |
| 13'-5"                                                                                                | 445            | 15                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 11                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 12                  | 4     | 6                | 16         | 4 1/4 | 5 1/2            | 36                                      |                                            | 30                                    | 13    | 3 7/8            | 6                                      |       | N/A              | 15                                  | 3 3/4 | 5 1/2            | 12                          | 4 1/4 | 6 3/4            | 18                               | 4     | 6 1/4            | 6 13/16            | 13'-5"       |        |
| 14'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 8                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 13         | 4 1/4 | 5 1/2            | 32                                      |                                            | 22                                    | 10    | 3 7/8            | 6                                      |       | N/A              | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 14'-5"       |        |
| 15'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 13         | 4 1/4 | 5 1/2            | 32                                      |                                            | 22                                    | 10    | 3 7/8            | 6                                      |       | N/A              | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 15'-5"       |        |
| 16'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 7                 | 3 5/8 | 6                | 8                      | 3 3/4 | 6                | 6                   | 3 3/4 | 5 1/2            | 9           | 4 1/4 | 6 3/4            | 9                   | 4     | 6                | 11         | 4 1/4 | 5 1/2            | 27                                      |                                            | 18                                    | 9     | 3 7/8            | 6                                      |       | N/A              | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 16'-5"       |        |
| 17'-5"                                                                                                | 446            | 17                    | 5 1/8 | 7 7/8            | 10                | 4 1/2 | 6                | 9                      | 4 5/8 | 7                | 10                  | 4 1/2 | 6                | 17          | 5     | 7                |                     | N/A   | 16               | 5          | 6 1/4 | 36               |                                         | 33                                         | 15                                    | 5 1/8 | 7 7/8            |                                        | N/A   | 9                | 4 1/2                               | 6     |                  | N/A                         | 10    | 5 1/2            | 8 1/2                            | 6 7/8 | 17'-5"           |                    |              |        |
| 18'-5"                                                                                                | 546            | 11                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                |                     | N/A   | 11               | 5          | 6 1/4 | 36               |                                         | 27                                         | 10                                    | 5 1/8 | 7 7/8            |                                        | N/A   | 7                | 4 1/2                               | 6     |                  | N/A                         | 9     | 5 1/2            | 8 1/2                            | 6 7/8 | 18'-5"           |                    |              |        |
| 19'-5"                                                                                                | 546            | 9                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | 5                      | 4 5/8 | 7                | 5                   | 4 1/2 | 6                | 8           | 5     | 7                |                     | N/A   | 6                | 5          | 6 1/4 | 33               |                                         | 23                                         | 8                                     | 5 1/8 | 7 7/8            |                                        | N/A   | 5                | 4 1/2                               | 6     |                  | N/A                         | 8     | 5 1/2            | 8 1/2                            | 6 7/8 | 19'-5"           |                    |              |        |
| 20'-5"                                                                                                | 548            | 17                    | 5 3/4 | 8 3/4            | 10                | 5 1/2 | 8                | 7                      | 5 5/8 | 10               | 18                  | 5 1/2 | 8                | 19          | 6 1/4 | 8 1/8            |                     | N/A   | 20               | 6 5/8      | 7 7/8 | 36               |                                         | 36                                         | 18                                    | 5 3/4 | 8 3/4            |                                        | N/A   | 11               | 5 1/2                               | 8     |                  | N/A                         | 26    | 6 1/4            | 10                               | 7 1/2 | 20'-5"           |                    |              |        |
| 21'-5"                                                                                                | 548            | 12                    | 5 3/4 | 8 3/4            | 9                 | 5 1/2 | 8                |                        | N/A   |                  | 10                  | 5 1/2 | 8                | 17          | 6 1/4 | 8 1/8            |                     | N/A   | 13               | 6 5/8      | 7 7/8 | 36               |                                         | 36                                         | 16                                    | 5 3/4 | 8 3/4            |                                        | N/A   | 9                | 5 1/2                               | 8     |                  | N/A                         | 24    | 6 1/4            | 10                               | 7 1/2 | 21'-5"           |                    |              |        |
| 22'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                |                        | N/A   |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            |                     | N/A   | 12               | 6 5/8      | 7 7/8 | 36               |                                         | 36                                         | 11                                    | 5 3/4 | 8 3/4            |                                        | N/A   | 8                | 5 1/2                               | 8     |                  | N/A                         | 10    | 6 1/4            | 10                               | 7 1/2 | 22'-5"           |                    |              |        |
| 23'-5"                                                                                                | 548            | 10                    | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                |                        | N/A   |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            |                     | N/A   | 9                | 6 5/8      | 7 7/8 | 36               |                                         | 36                                         | 10                                    | 5 3/4 | 8 3/4            |                                        | N/A   | 6                | 5 1/2                               | 8     |                  | N/A                         | 9     | 6 1/4            | 10                               | 7 1/2 | 23'-5"           |                    |              |        |
| 24'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            |                   | N/A   |                  |                        | N/A   |                  | 6                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            |                     | N/A   | 6                | 6 5/8      | 7 7/8 | 36               |                                         | 31                                         | 9                                     | 5 3/4 | 8 3/4            |                                        | N/A   | 5                | 5 1/2                               | 8     |                  | N/A                         | 8     | 6 1/4            | 10                               | 7 1/2 | 24'-5"           |                    |              |        |
| 25'-5"                                                                                                | 648            | 7                     | 5 3/4 | 8 3/4            |                   | N/A   |                  |                        | N/A   |                  |                     | N/A   |                  | 7           | 6 1/4 | 8 1/8            |                     | N/A   |                  | N/A        |       | 36               |                                         | 28                                         | 8                                     | 5 3/4 | 8 3/4            |                                        | N/A   |                  | N/A                                 |       | N/A              |                             | N/A   | 6                | 6 1/4                            | 10    | 7 1/2            | 25'-5"             |              |        |
| 26'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            |                   | N/A   |                  |                        | N/A   |                  |                     | N/A   |                  | 5           | 6 1/4 | 8 1/8            |                     | N/A   |                  | N/A        |       | 36               |                                         | 25                                         |                                       | N/A   |                  |                                        | N/A   |                  | N/A                                 |       | N/A              |                             | N/A   | 5                | 6 1/4                            | 10    | 7 1/2            | 26'-5"             |              |        |

|      |                         |            |     |        |
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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| Guide Construction |                           |       |                 |                   |                             |                                  |                                 |                                                 |      | CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                |      |       |                                             |      |       |                    |      |                       |               | Steel (Wall anchors are the same diameter as assembly fasteners) |               |                            |                               |                            |                               |                    |        |        |        |                 |        |  |  |  |  |  |
|--------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|-----------------------------|------|-------|--------------------------------|------|-------|---------------------------------------------|------|-------|--------------------|------|-----------------------|---------------|------------------------------------------------------------------|---------------|----------------------------|-------------------------------|----------------------------|-------------------------------|--------------------|--------|--------|--------|-----------------|--------|--|--|--|--|--|
| D.B.G.<br>Up To    | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt TZ2<br>Carbon & Stainless Steel |      |                                                                                       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie<br>Titen |      |       | Hilti KH-EZ Stainless<br>Steel |      |       | Simpson Strong-Tie<br>Titen Stainless Steel |      |       | Through<br>Bolting |      | Min. Edge<br>Distance | Welded        |                                                                  | Through Bolt  |                            | Tapped Bolt                   |                            |                               | Superimposed Loads |        |        |        | D.B.G.<br>Up To |        |  |  |  |  |  |
|                    |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed                                                                                 | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia. | Embed | Max O.C.                                    | Dia. | Embed | Max O.C.           | Dia. |                       | Slot Max O.C. | Heel and Toe<br>Max O.C.                                         | Slot Size     | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Min<br>Thickness   | Vx (+) | Vy (+) | Vx (-) |                 | Vy (-) |  |  |  |  |  |
| 5'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4                                                                                 | N/A                       |      |       | 9                     | 5/8  | 4 3/8 | 13          | 3/8  | 3 1/4 | 12                          | 3/4  | 5 1/2 | 13                             | 3/8  | 3 1/4 | 8                                           | 3/4  | 5 1/2 | 8                  | 3/8  | 5 3/4                 | 36            | 36                                                               | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16               | 0      | 179    | 0      | 176             | 5'-5"  |  |  |  |  |  |
| 6'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8  | 4 1/2                                                                                 | N/A                       |      |       | 8                     | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 | N/A                         |      |       | 10                             | 3/8  | 3 1/4 | N/A                                         |      |       | 8                  | 3/8  | 5 3/4                 | 36            | 36                                                               | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16               | 0      | 211    | 0      | 209             | 6'-5"  |  |  |  |  |  |
| 7'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2                                                                                 | N/A                       |      |       | 8                     | 3/4  | 5 1/4 | 9           | 3/8  | 3 1/4 | N/A                         |      |       | 9                              | 3/8  | 3 1/4 | N/A                                         |      |       | 8                  | 3/8  | 5 3/4                 | 36            | 36                                                               | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16               | 0      | 244    | 0      | 241             | 7'-5"  |  |  |  |  |  |
| 8'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2                                                                                 | N/A                       |      |       | N/A                   |      |       | 8           | 3/8  | 3 1/4 | N/A                         |      |       | 11                             | 1/2  | 4 1/4 | N/A                                         |      |       | 8                  | 3/8  | 5 3/4                 | 36            | 36                                                               | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 36                            | 3/16               | 0      | 276    | 0      | 274             | 8'-5"  |  |  |  |  |  |
| 9'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/4  | 5 1/2                                                                                 | N/A                       |      |       | N/A                   |      |       | 12          | 1/2  | 4 1/4 | N/A                         |      |       | 10                             | 1/2  | 4 1/4 | N/A                                         |      |       | 8                  | 3/8  | 5 3/4                 | 36            | 36                                                               | 7/16" x 5/8"  | 36                         | 36                            | 36                         | 34                            | 3/16               | 0      | 309    | 0      | 306             | 9'-5"  |  |  |  |  |  |
| 10'-5"             | 1 1/8                     | 0.344 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 8                                               | 1/2  | 3 3/4                                                                                 | 9                         | 5/8  | 3 3/8 | 11                    | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 | 12                          | 5/8  | 4 1/2 | 10                             | 3/8  | 3 1/4 | 9                                           | 5/8  | 4 1/2 | 8                  | 3/8  | 5 3/4                 | 27            | 36                                                               | 7/16" x 5/8"  | 25                         | 19                            | 9                          | 7                             | 3/16               | 356    | 341    | 293    | 339             | 10'-5" |  |  |  |  |  |
| 11'-5"             | 1 3/16                    | 0.407 | CP0629          | 344               | 12                          | 3/8                              | 11                              | 11                                              | 3/4  | 5 1/2                                                                                 | N/A                       |      |       | N/A                   |      |       | 9           | 1/2  | 4 1/4 | N/A                         |      |       | 8                              | 1/2  | 4 1/4 | N/A                                         |      |       | 8                  | 3/8  | 5 3/4                 | 14            | 24                                                               | 7/16" x 5/8"  | 12                         | 8                             | N/A                        | N/A                           | 3/16               | 719    | 374    | 667    | 372             | 11'-5" |  |  |  |  |  |
| 12'-5"             | 1 5/16                    | 0.469 | CP0630 & CP0647 | DC4               | 12                          | 1/2                              | 18                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | 8           | 1/2  | 4 1/4 | N/A                         |      |       | 8                              | 1/2  | 4 1/4 | N/A                                         |      |       | 8                  | 1/2  | 6 1/4                 | 12            | 12                                                               | 9/16" x 3/4"  | 12                         | 7                             | 12                         | 7                             | 1/4                | 915    | 406    | 870    | 405             | 12'-5" |  |  |  |  |  |
| 13'-5"             | 1 7/16                    | 0.594 | CP0630          | 445               | 9                           | 1/2                              | 14                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | 8           | 3/4  | 6 1/4 | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 1/2  | 6 13/16               | 13            | 20                                                               | 9/16" x 3/4"  | 18                         | 12                            | 6                          | N/A                           | 1/4                | 1174   | 437    | 1141   | 438             | 13'-5" |  |  |  |  |  |
| 14'-5"             | 1 1/2                     | 0.656 | CP0630          | 445               | 8                           | 1/2                              | 11                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 1/2  | 6 13/16               | 11            | 17                                                               | 9/16" x 3/4"  | 13                         | 9                             | 5                          | N/A                           | 1/4                | 1423   | 470    | 1393   | 471             | 14'-5" |  |  |  |  |  |
| 15'-5"             | 1 5/8                     | 0.781 | CP0630 & CP0647 | 446               | 8                           | 5/8                              | 17                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 5/8  | 6 7/8                 | 12            | 18                                                               | 11/16" x 7/8" | 21                         | 15                            | 7                          | 5                             | 5/16               | 1550   | 502    | 1524   | 503             | 15'-5" |  |  |  |  |  |
| 16'-5"             | 1 3/4                     | 0.906 | CP0630 & CP0647 | 546               | 8                           | 5/8                              | 15                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 5/8  | 6 7/8                 | 11            | 17                                                               | 11/16" x 7/8" | 19                         | 14                            | 7                          | 5                             | 5/16               | 1675   | 534    | 1652   | 535             | 16'-5" |  |  |  |  |  |
| 17'-5"             | 2                         | 1.156 | CP0630 & CP0647 | 546               | 8                           | 5/8                              | 15                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 5/8  | 6 7/8                 | 11            | 17                                                               | 11/16" x 7/8" | 20                         | 14                            | 7                          | 5                             | 5/16               | 1660   | 565    | 1642   | 567             | 17'-5" |  |  |  |  |  |
| 18'-5"             | 2                         | 1.156 | CP0630 & CP0647 | 546               | 7                           | 5/8                              | 13                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 5/8  | 6 7/8                 | 9             | 15                                                               | 11/16" x 7/8" | 16                         | 11                            | 6                          | N/A                           | 5/16               | 1912   | 598    | 1894   | 600             | 18'-5" |  |  |  |  |  |
| 19'-5"             | 2 3/8                     | 1.531 | CP0630 & CP0647 | 548               | 7                           | 3/4                              | 18                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 17            | 20                                                               | 7/8" x 1"     | 36                         | 30                            | 13                         | 10                            | 3/8                | 1816   | 630    | 1796   | 630             | 19'-5" |  |  |  |  |  |
| 20'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 7                           | 3/4                              | 18                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 16            | 18                                                               | 7/8" x 1"     | 36                         | 28                            | 13                         | 9                             | 3/8                | 1936   | 662    | 1919   | 662             | 20'-5" |  |  |  |  |  |
| 21'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 7                           | 3/4                              | 16                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 15            | 17                                                               | 7/8" x 1"     | 33                         | 25                            | 11                         | 8                             | 3/8                | 2146   | 695    | 2129   | 695             | 21'-5" |  |  |  |  |  |
| 22'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 13            | 15                                                               | 7/8" x 1"     | 30                         | 22                            | 10                         | 7                             | 3/8                | 2356   | 727    | 2338   | 728             | 22'-5" |  |  |  |  |  |
| 23'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 12            | 14                                                               | 7/8" x 1"     | 27                         | 19                            | 9                          | 7                             | 3/8                | 2565   | 760    | 2548   | 761             | 23'-5" |  |  |  |  |  |
| 24'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 11            | 13                                                               | 7/8" x 1"     | 25                         | 17                            | 9                          | 6                             | 3/8                | 2775   | 793    | 2758   | 794             | 24'-5" |  |  |  |  |  |
| 25'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 12                              | N/A                                             |      |                                                                                       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |      |       | N/A                                         |      |       | 8                  | 3/4  | 7 1/2                 | 10            | 12                                                               | 7/8" x 1"     | 22                         | 15                            | 8                          | 6                             | 3/8                | 2985   | 826    | 2969   | 827             | 25'-5" |  |  |  |  |  |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |    |                                     |       |         |                       |                 |  |  |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|----|-------------------------------------|-------|---------|-----------------------|-----------------|--|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |    |                                     |       |         |                       |                 |  |  |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt TZ2 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |    | Simpson Titen HD Stainless<br>Steel |       |         | Min. Edge<br>Distance | D.B.G.<br>Up To |  |  |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |    |                                     |       |         |                       |                 |  |  |  |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 27         | 3 1/2 | 4 3/4               | 36                                            |       | 29                                               | N/A      |                                          |                     | 16       | 1 7/8                                     | 3 1/4               | 18       | 2 1/2                                  | 4                   | 26       | 2 1/2                       | 4                   | 26 | 2 1/2                               | 4     | 5 3/4   | 5'-5"                 |                 |  |  |  |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            |       | 24                                               | N/A      |                                          |                     | 15       | 1 7/8                                     | 3 1/4               | 17       | 2 1/2                                  | 4                   | 23       | 2 1/2                       | 4                   | 24 | 2 1/2                               | 4     | 5 3/4   | 6'-5"                 |                 |  |  |  |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 27                                            |       | 21                                               | N/A      |                                          |                     | 14       | 1 7/8                                     | 3 1/4               | 16       | 2 1/2                                  | 4                   | 22       | 2 1/2                       | 4                   | 22 | 2 1/2                               | 4     | 5 3/4   | 7'-5"                 |                 |  |  |  |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 24                                            |       | 18                                               | N/A      |                                          |                     | 13       | 1 7/8                                     | 3 1/4               | 15       | 2 1/2                                  | 4                   | 20       | 2 1/2                       | 4                   | 21 | 2 1/2                               | 4     | 5 3/4   | 8'-5"                 |                 |  |  |  |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 21                                            |       | 16                                               | N/A      |                                          |                     | 12       | 1 7/8                                     | 3 1/4               | 14       | 2 1/2                                  | 4                   | 19       | 2 1/2                       | 4                   | 20 | 2 1/2                               | 4     | 5 3/4   | 9'-5"                 |                 |  |  |  |
| 10'-5"                                                                                                | 344               | N/A                   |       |                     | 14                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 36                                            |       | 36                                               | N/A      |                                          |                     | 9        | 1 7/8                                     | 3 1/4               | 15       | 2 1/2                                  | 4                   | 21       | 2 1/2                       | 4                   | 21 | 2 1/2                               | 4     | 5 3/4   | 10'-5"                |                 |  |  |  |
| 11'-5"                                                                                                | 344               | N/A                   |       |                     | 5                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 5                   | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 11         | 3 1/2 | 4 3/4               | 26                                            |       | 18                                               | N/A      |                                          |                     |          | N/A                                       |                     | 5        | 2 1/2                                  | 4                   | 5        | 2 1/2                       | 4                   | 6  | 3 1/4                               | 5     | 5 3/4   | 11'-5"                |                 |  |  |  |
| 12'-5"                                                                                                | DC4               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            |       | 18                                               | 13       | 3 7/8                                    | 6                   |          | N/A                                       |                     | 9        | 3 3/4                                  | 5 1/2               | 9        | 4 1/4                       | 6 3/4               | 7  | 4                                   | 6 1/4 | 5 3/4   | 12'-5"                |                 |  |  |  |
| 13'-5"                                                                                                | 445               | 12                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 35                                            |       | 24                                               | 11       | 3 7/8                                    | 6                   |          | N/A                                       |                     | 9        | 3 3/4                                  | 5 1/2               | 9        | 4 1/4                       | 6 3/4               | 7  | 4                                   | 6 1/4 | 6 13/16 | 13'-5"                |                 |  |  |  |
| 14'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 6                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 6                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 8                   | 4     | 6                   | 10         | 4 1/4 | 5 1/2               | 27                                            |       | 18                                               | 9        | 3 7/8                                    | 6                   |          | N/A                                       |                     | 8        | 3 3/4                                  | 5 1/2               | 8        | 4 1/4                       | 6 3/4               | 7  | 4                                   | 6 1/4 | 6 13/16 | 14'-5"                |                 |  |  |  |
| 15'-5"                                                                                                | 446               | 16                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     |       | N/A                 | 13         | 5     | 6 1/4               | 36                                            |       | 33                                               | 11       | 5 1/8                                    | 7 7/8               |          | N/A                                       |                     | 9        | 4 1/2                                  | 6                   |          | N/A                         |                     | 10 | 5 1/2                               | 8 1/2 | 6 7/8   | 15'-5"                |                 |  |  |  |
| 16'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     |       | N/A                 | 12         | 5     | 6 1/4               | 36                                            |       | 29                                               | 10       | 5 1/8                                    | 7 7/8               |          | N/A                                       |                     | 8        | 4 1/2                                  | 6                   |          | N/A                         |                     | 10 | 5 1/2                               | 8 1/2 | 6 7/8   | 16'-5"                |                 |  |  |  |
| 17'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     |       | N/A                 | 12         | 5     | 6 1/4               | 36                                            |       | 29                                               | 10       | 5 1/8                                    | 7 7/8               |          | N/A                                       |                     | 8        | 4 1/2                                  | 6                   |          | N/A                         |                     | 10 | 5 1/2                               | 8 1/2 | 6 7/8   | 17'-5"                |                 |  |  |  |
| 18'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     |       | N/A                 | 7          | 5     | 6 1/4               | 34                                            |       | 24                                               | 8        | 5 1/8                                    | 7 7/8               |          | N/A                                       |                     | 5        | 4 1/2                                  | 6                   |          | N/A                         |                     | 8  | 5 1/2                               | 8 1/2 | 6 7/8   | 18'-5"                |                 |  |  |  |
| 19'-5"                                                                                                | 548               | 16                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 14         | 6 5/8 | 7 7/8               | 36                                            |       | 36                                               | 18       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | 11       | 5 1/2                                  | 8                   |          | N/A                         |                     | 25 | 6 1/4                               | 10    | 7 1/2   | 19'-5"                |                 |  |  |  |
| 20'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 13         | 6 5/8 | 7 7/8               | 36                                            |       | 36                                               | 16       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | 10       | 5 1/2                                  | 8                   |          | N/A                         |                     | 24 | 6 1/4                               | 10    | 7 1/2   | 20'-5"                |                 |  |  |  |
| 21'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 12         | 6 5/8 | 7 7/8               | 36                                            |       | 36                                               | 11       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | 8        | 5 1/2                                  | 8                   |          | N/A                         |                     | 10 | 6 1/4                               | 10    | 7 1/2   | 21'-5"                |                 |  |  |  |
| 22'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     |       | N/A                 | 9          | 6 5/8 | 7 7/8               | 36                                            |       | 34                                               | 10       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | 6        | 5 1/2                                  | 8                   |          | N/A                         |                     | 9  | 6 1/4                               | 10    | 7 1/2   | 22'-5"                |                 |  |  |  |
| 23'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     |       | N/A                 | 5          | 6 5/8 | 7 7/8               | 36                                            |       | 30                                               | 9        | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | 5        | 5 1/2                                  | 8                   |          | N/A                         |                     | 8  | 6 1/4                               | 10    | 7 1/2   | 23'-5"                |                 |  |  |  |
| 24'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 6           | 6 1/4 | 8 1/8               |                     |       | N/A                 |            | N/A   |                     | 36                                            |       | 27                                               | 7        | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     |          | N/A                                    |                     |          | N/A                         |                     | 6  | 6 1/4                               | 10    | 7 1/2   | 24'-5"                |                 |  |  |  |
| 25'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 5           | 6 1/4 | 8 1/8               |                     |       | N/A                 |            | N/A   |                     | 36                                            |       | 24                                               |          | N/A                                      |                     |          | N/A                                       |                     |          | N/A                                    |                     |          | N/A                         |                     | 5  | 6 1/4                               | 10    | 7 1/2   | 25'-5"                |                 |  |  |  |

|      |                         |            |     |        |
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| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 70 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |       |       |             |       |       |                          |      |       |                             |       |       |                                                                  |      |               |                       |           |                    |                         |                            |                         |                            |               |        |        |                    |        |     |        |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|-------|-------|-------------|-------|-------|--------------------------|------|-------|-----------------------------|-------|-------|------------------------------------------------------------------|------|---------------|-----------------------|-----------|--------------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------|--------------------|--------|-----|--------|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |       |       |             |       |       |                          |      |       |                             |       |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |               |                       |           |                    |                         |                            |                         |                            |               |        |        |                    |        |     |        |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt TZ2 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |       |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |       |       | Simpson Strong-Tie Titen Stainless Steel                         |      |               | Through Bolting       |           | Min. Edge Distance | Welded                  |                            | Through Bolt            |                            | Tapped Bolt   |        |        | Superimposed Loads |        |     |        | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia.  | Embed | Max O.C.                                                         | Dia. | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size |                    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) | Vy (+) | Vx (-)             | Vy (-) |     |        |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344"           | N/A                      | 3/8                        | 24                        | 10                                           | 5/8  | 4 1/2 | N/A                    | N/A  | 8     | 5/8                   | 4 3/8 | 12    | 3/8         | 3 1/4 | N/A   | N/A                      | N/A  | 12    | 3/8                         | 3 1/4 | N/A   | N/A                                                              | 8    | 3/8           | 5 3/4                 | 36        | 36                 | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16   | 0      | 193                | 0      | 190 | 5'-5"  |              |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344"           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 | N/A                    | N/A  | 8     | 3/4                   | 5 1/4 | 10    | 3/8         | 3 1/4 | N/A   | N/A                      | N/A  | 10    | 3/8                         | 3 1/4 | N/A   | N/A                                                              | 8    | 3/8           | 5 3/4                 | 36        | 36                 | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16   | 0      | 228                | 0      | 225 | 6'-5"  |              |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344"           | N/A                      | 3/8                        | 24                        | 14                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | N/A                   | N/A   | 8     | 3/8         | 3 1/4 | N/A   | N/A                      | N/A  | 12    | 1/2                         | 4 1/4 | N/A   | N/A                                                              | 8    | 3/8           | 5 3/4                 | 36        | 36                 | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 36            | 3/16   | 0      | 263                | 0      | 260 | 7'-5"  |              |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344"           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | N/A                   | N/A   | 13    | 1/2         | 4 1/4 | N/A   | N/A                      | N/A  | 10    | 1/2                         | 4 1/4 | N/A   | N/A                                                              | 8    | 3/8           | 5 3/4                 | 36        | 36                 | 7/16" x 5/8"            | 36                         | 36                      | 36                         | 35            | 3/16   | 0      | 298                | 0      | 295 | 8'-5"  |              |
| 10'-5"                                                                                | 1 1/16                 | 0.282 | CP0629          | 344            | 12                       | 3/8                        | 11                        | 10                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 1/2                   | 4 1/4 | N/A   | 9           | 1/2   | 4 1/4 | N/A                      | N/A  | 8     | 1/2                         | 4 1/4 | N/A   | N/A                                                              | 8    | 3/8           | 5 3/4                 | 13        | 22                 | 7/16" x 5/8"            | 11                         | 8                       | N/A                        | N/A           | 3/16   | 724    | 368                | 655    | 366 | 10'-5" |              |
| 11'-5"                                                                                | 1 1/4                  | 0.406 | CP0630          | 344            | 10                       | 3/8                        | 9                         | 9                                            | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | N/A                   | N/A   | 8     | 1/2         | 4 1/4 | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/8           | 5 3/4                 | 11        | 20                 | 7/16" x 5/8"            | 9                          | 5                       | N/A                        | N/A           | 3/16   | 876    | 403                | 824    | 401 | 11'-5" |              |
| 12'-5"                                                                                | 1 5/16                 | 0.469 | CP0630          | 445            | 8                        | 1/2                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 1/2           | 6 13/16               | 13        | 20                 | 9/16" x 3/4"            | 17                         | 12                      | 6                          | N/A           | 1/4    | 1189   | 437                | 1148   | 437 | 12'-5" |              |
| 13'-5"                                                                                | 1 3/8                  | 0.531 | CP0630 & CP0647 | 445            | 8                        | 1/2                        | 11                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 1/2           | 6 13/16               | 11        | 16                 | 9/16" x 3/4"            | 13                         | 8                       | 5                          | N/A           | 1/4    | 1471   | 472                | 1434   | 473 | 13'-5" |              |
| 14'-5"                                                                                | 1 1/2                  | 0.656 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 5/8           | 6 7/8                 | 11        | 18                 | 11/16" x 7/8"           | 21                         | 15                      | 7                          | 5             | 5/16   | 1596   | 506                | 1564   | 507 | 14'-5" |              |
| 15'-5"                                                                                | 1 5/8                  | 0.781 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 15                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 5/8           | 6 7/8                 | 11        | 17                 | 11/16" x 7/8"           | 19                         | 13                      | 6                          | 5             | 5/16   | 1725   | 541                | 1697   | 542 | 15'-5" |              |
| 16'-5"                                                                                | 1 3/4                  | 0.906 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 5/8           | 6 7/8                 | 10        | 16                 | 11/16" x 7/8"           | 17                         | 12                      | 6                          | N/A           | 5/16   | 1852   | 575                | 1828   | 577 | 16'-5" |              |
| 17'-5"                                                                                | 1 7/8                  | 1.031 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 5/8           | 6 7/8                 | 9         | 15                 | 11/16" x 7/8"           | 15                         | 11                      | 6                          | N/A           | 5/16   | 1976   | 610                | 1955   | 611 | 17'-5" |              |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 15        | 17                 | 7/8" x 1"               | 34                         | 25                      | 12                         | 8             | 3/8    | 2108   | 646                | 2080   | 646 | 18'-5" |              |
| 19'-5"                                                                                | 2 1/4                  | 1.406 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 15        | 17                 | 7/8" x 1"               | 34                         | 25                      | 12                         | 8             | 3/8    | 2100   | 679                | 2077   | 680 | 19'-5" |              |
| 20'-5"                                                                                | 2 3/8                  | 1.531 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 14        | 16                 | 7/8" x 1"               | 32                         | 24                      | 11                         | 8             | 3/8    | 2221   | 714                | 2201   | 714 | 20'-5" |              |
| 21'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 15                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 13        | 15                 | 7/8" x 1"               | 30                         | 22                      | 10                         | 7             | 3/8    | 2339   | 748                | 2321   | 749 | 21'-5" |              |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 12        | 14                 | 7/8" x 1"               | 27                         | 19                      | 9                          | 7             | 3/8    | 2562   | 783                | 2544   | 784 | 22'-5" |              |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 11        | 13                 | 7/8" x 1"               | 24                         | 17                      | 9                          | 6             | 3/8    | 2786   | 819                | 2768   | 820 | 23'-5" |              |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | N/A  | N/A   | N/A                         | N/A   | N/A   | N/A                                                              | 8    | 3/4           | 7 1/2                 | 10        | 12                 | 7/8" x 1"               | 22                         | 15                      | 8                          | 6             | 3/8    | 3010   | 854                | 2992   | 855 | 24'-5" |              |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 70 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |       |                  |                    |              |        |        |        |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|-------|------------------|----------------------------------------|-------|------------------|-------------------------------------|-------|------------------|-----------------------------|-------|------------------|----------------------------------|-------|------------------|--------------------|--------------|--------|--------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |       |                  |                    |              |        |        |        |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt TZ2 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. | Through Bolting - Stainless Steel Max O.C. | Simpson Strong-Bolt 2 Stainless Steel |       |                  | Powers Power-Stud+ SD4 Stainless Steel |       |                  | Hilti Kwik Bolt TZ2 Stainless Steel |       |                  | Hilti KH-EZ Stainless Steel |       |                  | Simpson Titen HD Stainless Steel |       |                  | Min. Edge Distance | D.B.G. Up To |        |        |        |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. |                                         |                                            | Max O.C.                              | Embed | Min. Wall Thick. | Max O.C.                               | Embed | Min. Wall Thick. | Max O.C.                            | Embed | Min. Wall Thick. | Max O.C.                    | Embed | Min. Wall Thick. | Max O.C.                         | Embed | Min. Wall Thick. |                    |              |        |        |        |
| 5'-5"                                                                                                 | 344"           | N/A                   |       |                  | 18                | 2 3/8 | 4                | 17                     | 2 3/8 | 3 3/4            | 18                  | 2 1/2 | 4                | 23          | 2 1/2 | 4                | 15                  | 2 1/4 | 4                | 25         | 3 1/2 | 4 3/4            | 34                                      |                                            | 27                                    | N/A   | N/A              | N/A                                    | 15    | 1 7/8            | 3 1/4                               | 18    | 2 1/2            | 4                           | 25    | 2 1/2            | 4                                | 25    | 2 1/2            | 4                  | 5 3/4        | 5'-5"  |        |        |
| 6'-5"                                                                                                 | 344"           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 12                  | 2 1/4 | 4                | 21         | 3 1/2 | 4 3/4            | 29                                      |                                            | 22                                    | N/A   | N/A              | N/A                                    | 14    | 1 7/8            | 3 1/4                               | 16    | 2 1/2            | 4                           | 23    | 2 1/2            | 4                                | 23    | 2 1/2            | 4                  | 5 3/4        | 6'-5"  |        |        |
| 7'-5"                                                                                                 | 344"           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 18         | 3 1/2 | 4 3/4            | 25                                      |                                            | 19                                    | N/A   | N/A              | N/A                                    | 13    | 1 7/8            | 3 1/4                               | 15    | 2 1/2            | 4                           | 21    | 2 1/2            | 4                                | 21    | 2 1/2            | 4                  | 5 3/4        | 7'-5"  |        |        |
| 8'-5"                                                                                                 | 344"           | N/A                   |       |                  | 14                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 16         | 3 1/2 | 4 3/4            | 22                                      |                                            | 17                                    | N/A   | N/A              | N/A                                    | 12    | 1 7/8            | 3 1/4                               | 14    | 2 1/2            | 4                           | 20    | 2 1/2            | 4                                | 20    | 2 1/2            | 4                  | 5 3/4        | 8'-5"  |        |        |
| 10'-5"                                                                                                | 344            | N/A                   |       |                  | 5                 | 2 3/8 | 4                | 5                      | 2 3/8 | 4                | 5                   | 2 1/2 | 4                | 5           | 2 1/2 | 4                | 5                   | 2 1/4 | 4                | 10         | 3 1/2 | 4 3/4            | 27                                      |                                            | 18                                    | N/A   | N/A              | N/A                                    |       |                  |                                     | 5     | 2 1/2            | 4                           | 5     | 2 1/2            | 4                                | 6     | 3 1/4            | 5                  | 5 3/4        | 10'-5" |        |        |
| 11'-5"                                                                                                | 344            | N/A                   |       |                  | 5                 | 2 3/8 | 4                | 5                      | 2 3/8 | 4                | 5                   | 2 1/2 | 4                | 5           | 2 1/2 | 4                | 5                   | 2 1/4 | 4                | 10         | 3 1/2 | 4 3/4            | 19                                      |                                            | 12                                    | N/A   | N/A              | N/A                                    |       |                  |                                     | 5     | 2 1/2            | 4                           | 5     | 2 1/2            | 4                                | 6     | 3 1/4            | 5                  | 5 3/4        | 11'-5" |        |        |
| 12'-5"                                                                                                | 445            | 12                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 14         | 4 1/4 | 5 1/2            | 35                                      |                                            | 24                                    | 10    | 3 7/8            | 6                                      | N/A   | N/A              | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 12'-5"       |        |        |        |
| 13'-5"                                                                                                | 445            | 9                     | 3 7/8 | 6                | 6                 | 3 5/8 | 6                | 7                      | 3 3/4 | 6                | 5                   | 3 3/4 | 5 1/2            | 9           | 4 1/4 | 6 3/4            | 8                   | 4     | 6                | 8          | 4 1/4 | 5 1/2            | 26                                      |                                            | 17                                    | 8     | 3 7/8            | 6                                      | N/A   | N/A              | 8                                   | 3 3/4 | 5 1/2            | 8                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 13'-5"       |        |        |        |
| 14'-5"                                                                                                | 446            | 15                    | 5 1/8 | 7 7/8            | 9                 | 4 1/2 | 6                | 8                      | 4 5/8 | 7                | 9                   | 4 1/2 | 6                | 11          | 5     | 7                | N/A                 |       |                  | 12         | 5     | 6 1/4            | 36                                      |                                            | 32                                    | 11    | 5 1/8            | 7 7/8                                  | N/A   | N/A              | 8                                   | 4 1/2 | 6                | N/A                         |       |                  | 10                               | 5 1/2 | 8 1/2            | 6 7/8              | 14'-5"       |        |        |        |
| 15'-5"                                                                                                | 546            | 11                    | 5 1/8 | 7 7/8            | 8                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       |                  | 11         | 5     | 6 1/4            | 36                                      |                                            | 28                                    | 10    | 5 1/8            | 7 7/8                                  | N/A   | N/A              | 7                                   | 4 1/2 | 6                | N/A                         |       |                  | 10                               | 5 1/2 | 8 1/2            | 6 7/8              | 15'-5"       |        |        |        |
| 16'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 6                 | 4 1/2 | 6                | 6                      | 4 5/8 | 7                | 6                   | 4 1/2 | 6                | 9           | 5     | 7                | N/A                 |       |                  | 8          | 5     | 6 1/4            | 36                                      |                                            | 25                                    | 9     | 5 1/8            | 7 7/8                                  | N/A   | N/A              | 6                                   | 4 1/2 | 6                | N/A                         |       |                  | 8                                | 5 1/2 | 8 1/2            | 6 7/8              | 16'-5"       |        |        |        |
| 17'-5"                                                                                                | 546            | 8                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | N/A                    | N/A   |                  | 5                   | 4 1/2 | 6                | 8           | 5     | 7                | N/A                 |       |                  | 6          | 5     | 6 1/4            | 33                                      |                                            | 23                                    | 7     | 5 1/8            | 7 7/8                                  | N/A   | N/A              | 5                                   | 4 1/2 | 6                | N/A                         |       |                  | 7                                | 5 1/2 | 8 1/2            | 6 7/8              | 17'-5"       |        |        |        |
| 18'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    | N/A   |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      |                                            | 36                                    | 12    | 5 3/4            | 8 3/4                                  | N/A   | N/A              | 8                                   | 5 1/2 | 8                | N/A                         |       |                  | 11                               | 6 1/4 | 10               | 7 1/2              | 18'-5"       |        |        |        |
| 19'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    | N/A   |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      |                                            | 36                                    | 12    | 5 3/4            | 8 3/4                                  | N/A   | N/A              | 8                                   | 5 1/2 | 8                | N/A                         |       |                  | 11                               | 6 1/4 | 10               | 7 1/2              | 19'-5"       |        |        |        |
| 20'-5"                                                                                                | 548            | 10                    | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                | N/A                    | N/A   |                  | 8                   | 5 1/2 | 8                | 10          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 11         | 6 5/8 | 7 7/8            | 36                                      |                                            | 36                                    | 11    | 5 3/4            | 8 3/4                                  | N/A   | N/A              | 7                                   | 5 1/2 | 8                | N/A                         |       |                  | 10                               | 6 1/4 | 10               | 7 1/2              | 20'-5"       |        |        |        |
| 21'-5"                                                                                                | 648            | 10                    | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    | N/A   |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 9          | 6 5/8 | 7 7/8            | 36                                      |                                            | 34                                    | 10    | 5 3/4            | 8 3/4                                  | N/A   | N/A              | 6                                   | 5 1/2 | 8                | N/A                         |       |                  | 9                                | 6 1/4 | 10               | 7 1/2              | 21'-5"       |        |        |        |
| 22'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            |                   | N/A   |                  | N/A                    | N/A   |                  | 6                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 5          | 6 5/8 | 7 7/8            | 36                                      |                                            | 30                                    | 9     | 5 3/4            | 8 3/4                                  | N/A   | N/A              |                                     | N/A   |                  | N/A                         |       |                  | 8                                | 6 1/4 | 10               | 7 1/2              | 22'-5"       |        |        |        |
| 23'-5"                                                                                                | 648            | 7                     | 5 3/4 | 8 3/4            |                   | N/A   |                  | N/A                    | N/A   |                  |                     | N/A   |                  | 6           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        | N/A   |                  | 36                                      |                                            | 27                                    | 7     | 5 3/4            | 8 3/4                                  | N/A   | N/A              |                                     | N/A   |                  | N/A                         |       | N/A              |                                  |       | 6                | 6 1/4              | 10           | 7 1/2  | 23'-5" |        |
| 24'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            |                   | N/A   |                  | N/A                    | N/A   |                  |                     | N/A   |                  | 5           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        | N/A   |                  | 35                                      |                                            | 24                                    |       | N/A              |                                        | N/A   | N/A              |                                     | N/A   |                  | N/A                         |       | N/A              |                                  |       |                  | 6                  | N/A          | 10     | 7 1/2  | 24'-5" |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
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| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |       |       |             |       |       |                          |      |       |                             |       |       |                                                                  |       |       |                 |              |                    |               |                       |              |                         |                            |                         |                            |               |        |                    |        |        |  |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|-------|-------|-------------|-------|-------|--------------------------|------|-------|-----------------------------|-------|-------|------------------------------------------------------------------|-------|-------|-----------------|--------------|--------------------|---------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------------------|--------|--------|--|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |       |       |             |       |       |                          |      |       |                             |       |       | Steel (Wall anchors are the same diameter as assembly fasteners) |       |       |                 |              |                    |               |                       |              |                         |                            |                         |                            |               |        |                    |        |        |  |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |       |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |       |       | Simpson Strong-Tie Titen Stainless Steel                         |       |       | Through Bolting |              | Min. Edge Distance | Welded        |                       | Through Bolt |                         |                            | Tapped Bolt             |                            |               |        | Superimposed Loads |        |        |  | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia.  | Embed | Max O.C.                                                         | Dia.  | Embed | Max O.C.        | Dia.         |                    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) | Vy (+)             | Vx (-) | Vy (-) |  |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 | N/A                    | N/A  | 8     | 3/4                   | 5 1/4 | 10    | 3/8         | 3 1/4 | N/A   | N/A                      | N/A  | 10    | 3/8                         | 3 1/4 | N/A   | N/A                                                              | 8     | 3/8   | 5 3/4           | 36           | 36                 | 7/16" x 5/8"  | 36                    | 36           | 36                      | 36                         | 36                      | 3/16                       | 0             | 220    | 0                  | 217    | 5'-5"  |  |              |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 9                     | 3/8   | 3 1/4 | N/A         | N/A   | N/A   | N/A                      | 8    | 3/8   | 5 3/4                       | 36    | 36    | 8                                                                | 3/8   | 5 3/4 | 36              | 36           | 7/16" x 5/8"       | 36            | 36                    | 36           | 36                      | 36                         | 3/16                    | 0                          | 260           | 0      | 257                | 6'-5"  |        |  |              |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 13                    | 1/2   | 4 1/4 | N/A         | N/A   | N/A   | 10                       | 1/2  | 4 1/4 | N/A                         | N/A   | 8     | 3/8                                                              | 5 3/4 | 36    | 36              | 7/16" x 5/8" | 36                 | 36            | 36                    | 35           | 3/16                    | 0                          | 300                     | 0                          | 297           | 7'-5"  |                    |        |        |  |              |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 11                    | 1/2   | 4 1/4 | N/A         | N/A   | N/A   | 9                        | 1/2  | 4 1/4 | N/A                         | N/A   | 8     | 3/8                                                              | 5 3/4 | 36    | 36              | 7/16" x 5/8" | 36                 | 36            | 36                    | 31           | 3/16                    | 0                          | 340                     | 0                          | 337           | 8'-5"  |                    |        |        |  |              |
| 10'-5"                                                                                | 1 1/8                  | 0.281 | CP0630          | 445            | 10                       | 1/2                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | 8                     | 3/4   | 6 1/4 | N/A         | N/A   | N/A   | N/A                      | 8    | 1/2   | 6 13/16                     | 15    | 21    | 9/16" x 3/4"                                                     | 21    | 14    | 7               | 5            | 1/4                | 1043          | 419                   | 979          | 419                     | 10'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 11'-5"                                                                                | 1 1/8                  | 0.281 | CP0630 & CP0647 | 446            | 8                        | 5/8                        | 17                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 5/8   | 6 7/8                       | 11    | 16    | 11/16" x 7/8"                                                    | 19    | 13    | 7               | 5            | 5/16               | 1695          | 461                   | 1634         | 461                     | 11'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 12'-5"                                                                                | 1 3/16                 | 0.344 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 5/8   | 6 7/8                       | 9     | 14    | 11/16" x 7/8"                                                    | 15    | 11    | 6               | N/A          | 5/16               | 1969          | 501                   | 1915         | 502                     | 12'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 13'-5"                                                                                | 1 5/16                 | 0.469 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 5/8   | 6 7/8                       | 9     | 14    | 11/16" x 7/8"                                                    | 15    | 10    | 6               | N/A          | 5/16               | 2000          | 540                   | 1955         | 542                     | 13'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 14'-5"                                                                                | 1 3/8                  | 0.531 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 5/8   | 6 7/8                       | 8     | 13    | 11/16" x 7/8"                                                    | 13    | 8     | 5               | N/A          | 5/16               | 2257          | 580                   | 2216         | 582                     | 14'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 15'-5"                                                                                | 1 7/16                 | 0.594 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 13    | 14    | 7/8" x 1"                                                        | 28    | 20    | 10              | 7            | 3/8                | 2511          | 622                   | 2459         | 622                     | 15'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 16'-5"                                                                                | 1 1/2                  | 0.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 11    | 13    | 7/8" x 1"                                                        | 25    | 18    | 9               | 6            | 3/8                | 2734          | 662                   | 2685         | 663                     | 16'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 17'-5"                                                                                | 1 5/8                  | 0.781 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 11    | 13    | 7/8" x 1"                                                        | 25    | 17    | 9               | 6            | 3/8                | 2798          | 702                   | 2756         | 702                     | 17'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 18'-5"                                                                                | 1 3/4                  | 0.906 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 11    | 12    | 7/8" x 1"                                                        | 24    | 16    | 8               | 6            | 3/8                | 2879          | 741                   | 2841         | 741                     | 18'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 19'-5"                                                                                | 1 7/8                  | 1.031 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 11    | 12    | 7/8" x 1"                                                        | 23    | 15    | 8               | 6            | 3/8                | 2970          | 780                   | 2936         | 781                     | 19'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 20'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 648            | 5                        | 3/4                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 10    | 12    | 7/8" x 1"                                                        | 21    | 15    | 8               | 6            | 3/8                | 3067          | 819                   | 3036         | 820                     | 20'-5"                     |                         |                            |               |        |                    |        |        |  |              |
| 21'-5"                                                                                | 2 1/4                  | 1.406 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A   | N/A   | N/A                      | 8    | 3/4   | 7 1/2                       | 10    | 12    | 7/8" x 1"                                                        | 22    | 15    | 8               | 6            | 3/8                | 3001          | 858                   | 2976         | 858                     | 21'-5"                     |                         |                            |               |        |                    |        |        |  |              |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |        |                                  |         |        |                    |              |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|-------|--------------------------------------------|----------|---------------------------------------|------------------|----------|----------------------------------------|------------------|----------|-------------------------------------|------------------|----------|-----------------------------|------------------|--------|----------------------------------|---------|--------|--------------------|--------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |        |                                  |         |        |                    |              |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T22 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. |       | Through Bolting - Stainless Steel Max O.C. |          | Simpson Strong-Bolt 2 Stainless Steel |                  |          | Powers Power-Stud+ SD4 Stainless Steel |                  |          | Hilti Kwik Bolt T22 Stainless Steel |                  |          | Hilti KH-EZ Stainless Steel |                  |        | Simpson Titen HD Stainless Steel |         |        | Min. Edge Distance | D.B.G. Up To |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. | Max O.C.                                | Embed | Min. Wall Thick.                           | Max O.C. | Embed                                 | Min. Wall Thick. | Max O.C. | Embed                                  | Min. Wall Thick. | Max O.C. | Embed                               | Min. Wall Thick. | Max O.C. | Embed                       | Min. Wall Thick. |        |                                  |         |        |                    |              |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 17                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 22         | 3 1/2 | 4 3/4            | 30                                      | 23    | N/A                                        |          |                                       | 14               | 1 7/8    | 3 1/4                                  | 16               | 2 1/2    | 4                                   | 23               | 2 1/2    | 4                           | 23               | 2 1/2  | 4                                | 5 3/4   | 5'-5"  |                    |              |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 19         | 3 1/2 | 4 3/4            | 25                                      | 20    | N/A                                        |          |                                       | 13               | 1 7/8    | 3 1/4                                  | 15               | 2 1/2    | 4                                   | 21               | 2 1/2    | 4                           | 21               | 2 1/2  | 4                                | 5 3/4   | 6'-5"  |                    |              |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 13                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 16         | 3 1/2 | 4 3/4            | 22                                      | 17    | N/A                                        |          |                                       | 12               | 1 7/8    | 3 1/4                                  | 14               | 2 1/2    | 4                                   | 20               | 2 1/2    | 4                           | 20               | 2 1/2  | 4                                | 5 3/4   | 7'-5"  |                    |              |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 12                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 18          | 2 1/2 | 4                | 8                   | 2 1/4 | 4                | 14         | 3 1/2 | 4 3/4            | 19                                      | 15    | N/A                                        |          |                                       | N/A              | 13       | 2 1/2                                  | 4                | 5        | 2 1/2                               | 4                | 19       | 3 1/4                       | 5                | 5 3/4  | 8'-5"                            |         |        |                    |              |
| 10'-5"                                                                                                | 445            | 13                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 17          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 14         | 4 1/4 | 5 1/2            | 36                                      | 30    | 11                                         | 3 7/8    | 6                                     | N/A              |          |                                        | 9                | 3 3/4    | 5 1/2                               | 9                | 4 1/4    | 6 3/4                       | 7                | 4      | 6 1/4                            | 6 13/16 | 10'-5" |                    |              |
| 11'-5"                                                                                                | 446            | 11                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       | 11               | 5          | 6 1/4 | 36               | 31                                      | 10    | 5 1/8                                      | 7 7/8    | N/A                                   |                  | 7        | 4 1/2                                  | 6                | N/A      |                                     |                  | 9        | 5 1/2                       | 8 1/2            | 6 7/8  | 11'-5"                           |         |        |                    |              |
| 12'-5"                                                                                                | 546            | 9                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | 5                      | 4 5/8 | 7                | 5                   | 4 1/2 | 6                | 8           | 5     | 7                | N/A                 |       | 6                | 5          | 6 1/4 | 36               | 25                                      | 7     | 5 1/8                                      | 7 7/8    | N/A                                   |                  | 5        | 4 1/2                                  | 6                | N/A      |                                     |                  | 7        | 5 1/2                       | 8 1/2            | 6 7/8  | 12'-5"                           |         |        |                    |              |
| 13'-5"                                                                                                | 546            | 8                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | N/A                    |       | 5                |                     | 4 1/2 | 6                | 8           | 5     | 7                | N/A                 |       | 5                | 5          | 6 1/4 | 35               | 24                                      | 7     | 5 1/8                                      | 7 7/8    | N/A                                   |                  | 5        | 3 3/4                                  | 5 1/2            | N/A      |                                     | 7                | 5 1/2    | 8 1/2                       | 6 7/8            | 13'-5" |                                  |         |        |                    |              |
| 14'-5"                                                                                                | 546            | 6                     | 5 1/8 | 7 7/8            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           | 5     | 7                | N/A                 |       |                  | N/A        |       |                  | 29                                      | 19    | N/A                                        |          |                                       | N/A              |          |                                        | N/A              |          |                                     | 5                | 5 1/2    | 8 1/2                       | 6 7/8            | 14'-5" |                                  |         |        |                    |              |
| 15'-5"                                                                                                | 548            | 9                     | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    |       | 7                |                     | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       | 7                | 6 5/8      | 7 7/8 | 36               | 35                                      | 9     | 5 3/4                                      | 8 3/4    | N/A                                   |                  | 6        | 5 1/2                                  | 8                | N/A      |                                     | 8                | 6 1/4    | 10                          | 7 1/2            | 15'-5" |                                  |         |        |                    |              |
| 16'-5"                                                                                                | 548            | 7                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   |       |                  | 5 1/2       | 8     | 7                | 6 1/4               | 8 1/8 | N/A              |            | N/A   |                  | 36                                      | 31    | 8                                          | 5 3/4    | 8 3/4                                 | N/A              |          | N/A                                    |                  |          | N/A                                 |                  |          | 7                           | 6 1/4            | 10     | 7 1/2                            | 16'-5"  |        |                    |              |
| 17'-5"                                                                                                | 648            | 7                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           |       |                  | 6 1/4               | 8 1/8 | N/A              |            | N/A   |                  | 36                                      | 29    | 8                                          | 5 3/4    | 8 3/4                                 | N/A              |          | N/A                                    |                  |          | N/A                                 |                  |          | 6                           | 6 1/4            | 10     | 7 1/2                            | 17'-5"  |        |                    |              |
| 18'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           |       |                  | 6 1/4               | 8 1/8 | N/A              |            | N/A   |                  | 36                                      | 28    | 7                                          | 5 3/4    | 8 3/4                                 | N/A              |          | N/A                                    |                  |          | N/A                                 |                  |          | 6                           | 6 1/4            | 10     | 7 1/2                            | 18'-5"  |        |                    |              |
| 19'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 5           |       |                  | 6 1/4               | 8 1/8 | N/A              |            | N/A   |                  | 36                                      | 26    | N/A                                        |          |                                       | N/A              |          |                                        | N/A              |          |                                     | 5                | 6 1/4    | 10                          | 7 1/2            | 19'-5" |                                  |         |        |                    |              |
| 20'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | N/A         |       |                  | N/A                 |       |                  | N/A        |       | N/A              |                                         | 36    | 24                                         | N/A      |                                       |                  | N/A      |                                        |                  | N/A      |                                     |                  | N/A      |                             |                  | 7 1/2  | 20'-5"                           |         |        |                    |              |
| 21'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 5           |       |                  | 6 1/4               | 8 1/8 | N/A              |            | N/A   |                  | 36                                      | 25    | N/A                                        |          |                                       | N/A              |          |                                        | N/A              |          |                                     | N/A              |          |                             | 5                | 6 1/4  | 10                               | 7 1/2   | 21'-5" |                    |              |

| CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 90 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |       |       |             |      |       |                          |       |                                                                  |                             |      |       |                                          |      |               |                 |               |                    |                       |           |                         |                            |                         |                            |               |        |                    |        |        |  |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|-------|-------|-------------|------|-------|--------------------------|-------|------------------------------------------------------------------|-----------------------------|------|-------|------------------------------------------|------|---------------|-----------------|---------------|--------------------|-----------------------|-----------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------------------|--------|--------|--|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |       |       |             |      |       |                          |       | Steel (Wall anchors are the same diameter as assembly fasteners) |                             |      |       |                                          |      |               |                 |               |                    |                       |           |                         |                            |                         |                            |               |        |                    |        |        |  |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |       |                                                                  | Hilti KH-EZ Stainless Steel |      |       | Simpson Strong-Tie Titen Stainless Steel |      |               | Through Bolting |               | Min. Edge Distance | Welded                |           | Through Bolt            |                            |                         | Tapped Bolt                |               |        | Superimposed Loads |        |        |  | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia.  | Embed                                                            | Max O.C.                    | Dia. | Embed | Max O.C.                                 | Dia. | Max O.C.      | Dia.            | Slot Max O.C. |                    | Heel and Toe Max O.C. | Slot Size | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) | Vy (+)             | Vx (-) | Vy (-) |  |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 9                     | 3/8   | 3 1/4 | N/A         | N/A  | 9     | 3/8                      | 3 1/4 | N/A                                                              | N/A                         | 8    | 3/8   | 5 3/4                                    | 36   | 36            | 7/16" x 5/8"    | 36            | 36                 | 36                    | 36        | 3/16                    | 0                          | 248                     | 0                          | 244           | 5'-5"  |                    |        |        |  |              |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    | N/A  | 8     | 3/8                   | 3 1/4 | N/A   | N/A         | 11   | 1/2   | 4 1/4                    | N/A   | N/A                                                              | 8                           | 3/8  | 5 3/4 | 36                                       | 36   | 7/16" x 5/8"  | 36              | 36            | 36                 | 36                    | 3/16      | 0                       | 293                        | 0                       | 289                        | 6'-5"         |        |                    |        |        |  |              |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/4  | 5 1/2 | N/A                    | N/A  | 11    | 1/2                   | 4 1/4 | N/A   | N/A         | 9    | 1/2   | 4 1/4                    | N/A   | N/A                                                              | 8                           | 3/8  | 5 3/4 | 36                                       | 36   | 7/16" x 5/8"  | 36              | 36            | 36                 | 31                    | 3/16      | 0                       | 338                        | 0                       | 334                        | 7'-5"         |        |                    |        |        |  |              |
| 11'-5"                                                                                | 1 1/8                  | 0.281 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | N/A                                                              | 8                           | 5/8  | 6 7/8 | 9                                        | 13   | 11/16" x 7/8" | 14              | 10            | 5                  | N/A                   | 5/16      | 2074                    | 519                        | 2007                    | 520                        | 11'-5"        |        |                    |        |        |  |              |
| 12'-5"                                                                                | 1 1/8                  | 0.281 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | N/A                                                              | 8                           | 3/4  | 7 1/2 | 11                                       | 12   | 7/8" x 1"     | 25              | 18            | 9                  | 6                     | 3/8       | 2754                    | 588                        | 2664                    | 568                        | 12'-5"        |        |                    |        |        |  |              |
| 13'-5"                                                                                | 1 3/16                 | 0.344 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A   | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | N/A                                                              | 8                           | 3/4  | 7 1/2 | 11                                       | 12   | 7/8" x 1"     | 23              | 16            | 8                  | 6                     | 3/8       | 2961                    | 613                        | 2882                    | 613                        | 13'-5"        |        |                    |        |        |  |              |



|      |                         |            |     |        |
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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
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| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                |                                                                  |       |                                             |      |               |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |                    |     |      |     |                 |
|---------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|-----------------------------|------|-------|--------------------------------|------------------------------------------------------------------|-------|---------------------------------------------|------|---------------|--------------------------|-----------|-----------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|-------------|--------|--------|--------------------|-----|------|-----|-----------------|
| Guide Construction                                                                    |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                | Steel (Wall anchors are the same diameter as assembly fasteners) |       |                                             |      |               |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |                    |     |      |     |                 |
| D.B.G.<br>Up To                                                                       | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie<br>Titan |      |       | Hilti KH-EZ Stainless<br>Steel |                                                                  |       | Simpson Strong-Tie<br>Titan Stainless Steel |      |               | Through<br>Bolting       |           | Min. Edge<br>Distance | Welded                     |                               | Through Bolt               |                               |                  | Tapped Bolt |        |        | Superimposed Loads |     |      |     | D.B.G.<br>Up To |
|                                                                                       |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia.                                                             | Embed | Max O.C.                                    | Dia. | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size |                       | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Min<br>Thickness | Vx (+)      | Vy (+) | Vx (-) | Vy (-)             |     |      |     |                 |
| 5'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/8  | 1 7/8 | 15                        | 3/8  | 2 3/8 | 15                    | 3/8  | 2 5/8 | 10          | 3/8  | 1 5/8 | 16                          | 3/8  | 2 3/4 | 11                             | 3/8                                                              | 2     | 14                                          | 3/8  | 2 3/4         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 55  | 0    | 54  | 5'-5"           |
| 6'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 11                                              | 3/8  | 1 7/8 | 13                        | 3/8  | 2 3/8 | 12                    | 3/8  | 2 5/8 | 9           | 3/8  | 1 5/8 | 14                          | 3/8  | 2 3/4 | 9                              | 3/8                                                              | 2     | 12                                          | 3/8  | 2 3/4         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 65  | 0    | 64  | 6'-5"           |
| 7'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/8  | 1 7/8 | 11                        | 3/8  | 2 3/8 | 11                    | 3/8  | 2 5/8 | 31          | 3/8  | 3 1/4 | 12                          | 3/8  | 2 3/4 | 8                              | 3/8                                                              | 2     | 10                                          | 3/8  | 2 3/4         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 75  | 0    | 74  | 7'-5"           |
| 8'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 1 7/8 | 10                        | 3/8  | 2 3/8 | 9                     | 3/8  | 2 5/8 | 27          | 3/8  | 3 1/4 | 15                          | 1/2  | 3 1/2 | 27                             | 3/8                                                              | 3 1/4 | 15                                          | 1/2  | 3 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 85  | 0    | 84  | 8'-5"           |
| 9'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/8  | 3     | 8                         | 3/8  | 2 3/8 | 8                     | 3/8  | 2 5/8 | 24          | 3/8  | 3 1/4 | 13                          | 1/2  | 3 1/2 | 24                             | 3/8                                                              | 3 1/4 | 13                                          | 1/2  | 3 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 95  | 0    | 94  | 9'-5"           |
| 10'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/8  | 3     | 8                         | 3/8  | 2 3/8 | 9                     | 1/2  | 3 1/2 | 22          | 3/8  | 3 1/4 | 12                          | 1/2  | 3 1/2 | 22                             | 3/8                                                              | 3 1/4 | 12                                          | 1/2  | 3 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 105 | 0    | 104 | 10'-5"          |
| 11'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/8  | 3     | 8                         | 1/2  | 2 1/2 | 8                     | 1/2  | 3 1/2 | 20          | 3/8  | 3 1/4 | 15                          | 5/8  | 4 1/2 | 20                             | 3/8                                                              | 3 1/4 | 15                                          | 5/8  | 4 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 115 | 0    | 114 | 11'-5"          |
| 12'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 11                                              | 3/8  | 3     | 8                         | 1/2  | 2 1/2 | 8                     | 1/2  | 3 1/2 | 18          | 3/8  | 3 1/4 | 14                          | 5/8  | 4 1/2 | 18                             | 3/8                                                              | 3 1/4 | 14                                          | 5/8  | 4 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 125 | 0    | 124 | 12'-5"          |
| 13'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/8  | 3     | 10                        | 5/8  | 3 3/8 | 12                    | 5/8  | 4 3/8 | 17          | 3/8  | 3 1/4 | 13                          | 5/8  | 4 1/2 | 17                             | 3/8                                                              | 3 1/4 | 13                                          | 5/8  | 4 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 135 | 0    | 134 | 13'-5"          |
| 14'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 3/8  | 3     | 9                         | 5/8  | 3 3/8 | 11                    | 5/8  | 4 3/8 | 16          | 3/8  | 3 1/4 | 12                          | 5/8  | 4 1/2 | 15                             | 3/8                                                              | 3 1/4 | 12                                          | 5/8  | 4 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 145 | 0    | 144 | 14'-5"          |
| 15'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3     | 8                         | 5/8  | 3 3/8 | 11                    | 5/8  | 4 3/8 | 15          | 3/8  | 3 1/4 | 14                          | 3/4  | 5 1/2 | 14                             | 3/8                                                              | 3 1/4 | 9                                           | 3/4  | 5 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 155 | 0    | 154 | 15'-5"          |
| 16'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3     | 8                         | 5/8  | 3 3/8 | 10                    | 5/8  | 4 3/8 | 14          | 3/8  | 3 1/4 | 13                          | 3/4  | 5 1/2 | 13                             | 3/8                                                              | 3 1/4 | 8                                           | 3/4  | 5 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 165 | 0    | 164 | 16'-5"          |
| 17'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4 | N/A                       |      |       | 9                     | 5/8  | 4 3/8 | 13          | 3/8  | 3 1/4 | 12                          | 3/4  | 5 1/2 | 13                             | 3/8                                                              | 3 1/4 | 8                                           | 3/4  | 5 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 175 | 0    | 174 | 17'-5"          |
| 18'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 9                                               | 3/8  | 3     | 8                         | 1/2  | 2 1/2 | 8                     | 1/2  | 3 1/2 | 18          | 3/8  | 3 1/4 | 14                          | 5/8  | 4 1/2 | 18                             | 3/8                                                              | 3 1/4 | 11                                          | 5/8  | 4 1/2         | 8                        | 3/8       | 5 3/4                 | 33                         | 36                            | 7/16" x 5/8"               | 31                            | 24               | 11          | 9      | 3/16   | 295                | 185 | 281  | 184 | 18'-5"          |
| 19'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 9                                               | 1/2  | 3 3/4 | 8                         | 5/8  | 3 3/8 | 9                     | 5/8  | 4 3/8 | 12          | 3/8  | 3 1/4 | 13                          | 3/4  | 5 1/2 | 12                             | 3/8                                                              | 3 1/4 | N/A                                         |      |               | 8                        | 3/8       | 5 3/4                 | 23                         | 36                            | 7/16" x 5/8"               | 22                            | 16               | 8           | 6      | 3/16   | 438                | 195 | 425  | 194 | 19'-5"          |
| 20'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 15                              | 9                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 3/4  | 5 1/4 | 9           | 3/8  | 3 1/4 | N/A                         |      |       | 13                             | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 3/8       | 5 3/4                 | 17                         | 33                            | 7/16" x 5/8"               | 16                            | 11               | 6           | 5      | 3/16   | 572                | 205 | 560  | 205 | 20'-5"          |
| 21'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 12                              | 13                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 12          | 1/2  | 4 1/4 | N/A                         |      |       | 9                              | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 3/8       | 5 3/4                 | 14                         | 27                            | 7/16" x 5/8"               | 12                            | 8                | 5           | N/A    | 3/16   | 702                | 215 | 690  | 215 | 21'-5"          |
| 22'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 3/4  | 5 1/4 | 15          | 1/2  | 4 1/4 | N/A                         |      |       | 13                             | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 25                         | 36                            | 9/16" x 3/4"               | 35                            | 27               | 12          | 9      | 1/4    | 631                | 234 | 624  | 234 | 22'-5"          |
| 23'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 3/4  | 5 1/4 | 15          | 1/2  | 4 1/4 | N/A                         |      |       | 13                             | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 25                         | 36                            | 9/16" x 3/4"               | 35                            | 27               | 12          | 9      | 1/4    | 631                | 234 | 624  | 234 | 23'-5"          |
| 24'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 13                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 13          | 1/2  | 4 1/4 | N/A                         |      |       | 10                             | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 22                         | 34                            | 9/16" x 3/4"               | 30                            | 23               | 10          | 7      | 1/4    | 730                | 244 | 723  | 244 | 24'-5"          |
| 25'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 10                          | 1/2                              | 18                              | 12                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 10          | 1/2  | 4 1/4 | N/A                         |      |       | 9                              | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 19                         | 30                            | 9/16" x 3/4"               | 26                            | 20               | 9           | 6      | 1/4    | 826                | 254 | 820  | 254 | 25'-5"          |
| 26'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 10                          | 1/2                              | 17                              | 10                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 9           | 1/2  | 4 1/4 | N/A                         |      |       | 8                              | 1/2                                                              | 4 1/4 | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 17                         | 26                            | 9/16" x 3/4"               | 23                            | 16               | 8           | 6      | 1/4    | 955                | 264 | 948  | 264 | 26'-5"          |
| 27'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 10                          | 1/2                              | 16                              | 9                                               | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 8           | 1/2  | 4 1/4 | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 15                         | 24                            | 9/16" x 3/4"               | 20                            | 14               | 7           | 5      | 1/4    | 1050               | 274 | 1044 | 275 | 27'-5"          |
| 28'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 14                              | 8                                               | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 9           | 3/4  | 6 1/4 | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 14                         | 22                            | 9/16" x 3/4"               | 18                            | 13               | 6           | 5      | 1/4    | 1144               | 284 | 1138 | 285 | 28'-5"          |
| 29'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 13                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | 8           | 3/4  | 6 1/4 | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 13                         | 20                            | 9/16" x 3/4"               | 16                            | 11               | 6           | N/A    | 1/4    | 1238               | 294 | 1231 | 295 | 29'-5"          |
| 30'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 13                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 12                         | 19                            | 9/16" x 3/4"               | 15                            | 10               | 6           | N/A    | 1/4    | 1331               | 304 | 1324 | 305 | 30'-5"          |
| 31'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 12                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 1/2       | 6 13/16               | 11                         | 17                            | 9/16" x 3/4"               | 13                            | 9                | 5           | N/A    | 1/4    | 1423               | 314 | 1417 | 315 | 31'-5"          |
| 32'-5"                                                                                | 2                         | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 18                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 5/8       | 6 7/8                 | 12                         | 19                            | 11/16" x 7/8"              | 22                            | 16               | 7           | 5      | 5/16   | 1516               | 325 | 1509 | 325 | 32'-5"          |
| 33'-5"                                                                                | 2                         | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 17                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 5/8       | 6 7/8                 | 11                         | 18                            | 11/16" x 7/8"              | 20                            | 14               | 7           | 5      | 5/16   | 1609               | 335 | 1602 | 335 | 33'-5"          |
| 34'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 446               | 8                           | 5/8                              | 16                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 5/8       | 6 7/8                 | 11                         | 17                            | 11/16" x 7/8"              | 19                            | 13               | 7           | 5      | 5/16   | 1701               | 345 | 1695 | 345 | 34'-5"          |
| 35'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 446               | 6                           | 5/8                              | 15                              |                                                 | N/A  |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |               | 8                        | 5/8       | 6 7/8                 | 10                         | 16                            | 11/16" x 7/8"              | 18                            | 12               | 6           | N/A    | 5/16</ |                    |     |      |     |                 |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |  |  |  |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--|--|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |  |  |  |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |  |  |  |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |  |  |  |  |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 34                | 2 3/8 | 4                   | 33                     | 2 3/8 | 3 3/4               | 34                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 33                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 29                                        | 1 7/8 | 3 1/4               | 33                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 5'-5"           |  |  |  |  |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 31                | 2 3/8 | 4                   | 30                     | 2 3/8 | 3 3/4               | 31                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 30                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 27                                        | 1 7/8 | 3 1/4               | 31                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 6'-5"           |  |  |  |  |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 29                | 2 3/8 | 4                   | 28                     | 2 3/8 | 3 3/4               | 29                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 28                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 25                                        | 1 7/8 | 3 1/4               | 28                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 7'-5"           |  |  |  |  |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 27                | 2 3/8 | 4                   | 26                     | 2 3/8 | 3 3/4               | 27                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 26                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 23                                        | 1 7/8 | 3 1/4               | 27                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 8'-5"           |  |  |  |  |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 26                | 2 3/8 | 4                   | 25                     | 2 3/8 | 3 3/4               | 26                  | 2 1/2 | 4                   | 34          | 2 1/2 | 4                   | 25                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 22                                        | 1 7/8 | 3 1/4               | 25                                     | 2 1/2 | 4                   | 35                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 9'-5"           |  |  |  |  |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 32          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 21                                        | 1 7/8 | 3 1/4               | 24                                     | 2 1/2 | 4                   | 33                          | 2 1/2 | 4                   | 34                                  | 2 1/2 | 4                   | 5 3/4                 | 10'-5"          |  |  |  |  |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 22                     | 2 3/8 | 3 3/4               | 23                  | 2 1/2 | 4                   | 30          | 2 1/2 | 4                   | 22                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 20                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 32                          | 2 1/2 | 4                   | 32                                  | 2 1/2 | 4                   | 5 3/4                 | 11'-5"          |  |  |  |  |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 19                                        | 1 7/8 | 3 1/4               | 22                                     | 2 1/2 | 4                   | 30                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4                   | 5 3/4                 | 12'-5"          |  |  |  |  |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 21                                     | 2 1/2 | 4                   | 29                          | 2 1/2 | 4                   | 30                                  | 2 1/2 | 4                   | 5 3/4                 | 13'-5"          |  |  |  |  |
| 14'-5"                                                                                                | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            | 35                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 28                          | 2 1/2 | 4                   | 29                                  | 2 1/2 | 4                   | 5 3/4                 | 14'-5"          |  |  |  |  |
| 15'-5"                                                                                                | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            | 33                                               |                                          | N/A   |                     | 17                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 27                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4                   | 5 3/4                 | 15'-5"          |  |  |  |  |
| 16'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            | 31                                               |                                          | N/A   |                     | 17                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 27                                  | 2 1/2 | 4                   | 5 3/4                 | 16'-5"          |  |  |  |  |
| 17'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            | 29                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 26                                  | 2 1/2 | 4                   | 5 3/4                 | 17'-5"          |  |  |  |  |
| 18'-5"                                                                                                | 344               |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 27         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 14                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 28                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4                   | 5 3/4                 | 18'-5"          |  |  |  |  |
| 19'-5"                                                                                                | 344               |                       | N/A   |                     | 15                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 10                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 22                                  | 2 1/2 | 4                   | 5 3/4                 | 19'-5"          |  |  |  |  |
| 20'-5"                                                                                                | 344               |                       | N/A   |                     | 12                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 36                                            | 25                                               |                                          | N/A   |                     | 6                                         | 1 7/8 | 3 1/4               | 14                                     | 2 1/2 | 4                   | 19                          | 2 1/2 | 4                   | 19                                  | 2 1/2 | 4                   | 5 3/4                 | 20'-5"          |  |  |  |  |
| 21'-5"                                                                                                | 344               |                       | N/A   |                     | 10                | 2 3/8 | 4                   | 10                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 16          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 28                                            | 19                                               |                                          | N/A   |                     |                                           | N/A   |                     | 12                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 18                                  | 3 1/4 | 5                   | 5 3/4                 | 21'-5"          |  |  |  |  |
| 22'-5"                                                                                                | 445               | 22                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 22                                       | 3 7/8 | 6                   | 14                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 28                                  | 4     | 6 1/4               | 6 13/16               | 22'-5"          |  |  |  |  |
| 23'-5"                                                                                                | 445               | 22                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 22                                       | 3 7/8 | 6                   | 14                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 28                                  | 4     | 6 1/4               | 6 13/16               | 23'-5"          |  |  |  |  |
| 24'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 16                     | 3 3/4 | 6                   | 19                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 18                  | 4     | 6                   | 23         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 20                                       | 3 7/8 | 6                   | 11                                        | 2 1/2 | 4                   | 20                                     | 3 3/4 | 5 1/2               | 21                          | 4 1/4 | 6 3/4               | 25                                  | 4     | 6 1/4               | 6 13/16               | 24'-5"          |  |  |  |  |
| 25'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 16                  | 4     | 6                   | 21         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 17                                       | 3 7/8 | 6                   | 8                                         | 2 1/2 | 4                   | 18                                     | 3 3/4 | 5 1/2               | 19                          | 4 1/4 | 6 3/4               | 24                                  | 4     | 6 1/4               | 6 13/16               | 25'-5"          |  |  |  |  |
| 26'-5"                                                                                                | 445               | 17                    | 3 7/8 | 6                   | 13                | 3 5/8 | 6                   | 14                     | 3 3/4 | 6                   | 16                  | 3 3/4 | 5 1/2               | 20          | 4 1/4 | 6 3/4               | 14                  | 4     | 6                   | 18         | 4 1/4 | 5 1/2               | 36                                            | 33                                               | 15                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 17                                     | 3 3/4 | 5 1/2               | 15                          | 4 1/4 | 6 3/4               | 22                                  | 4     | 6 1/4               | 6 13/16               | 26'-5"          |  |  |  |  |
| 27'-5"                                                                                                | 445               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 12                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            | 29                                               | 14                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 15                                     | 3 3/4 | 5 1/2               | 13                          | 4 1/4 | 6 3/4               | 20                                  | 4     | 6 1/4               | 6 13/16               | 27'-5"          |  |  |  |  |
| 28'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            | 26                                               | 13                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 14                                     | 3 3/4 | 5 1/2               | 11                          | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 28'-5"          |  |  |  |  |
| 29'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 33                                            | 23                                               | 11                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 29'-5"          |  |  |  |  |
| 30'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 30                                            | 20                                               | 10                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 30'-5"          |  |  |  |  |
| 31'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 11         | 4 1/4 | 5 1/2               | 27                                            | 18                                               | 9                                        | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 31'-5"          |  |  |  |  |
| 32'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 17         | 5     | 6 1/4               | 36                                            | 35                                               | 16                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 10                                     | 4 1/2 | 6                   |                             | N/A   |                     | 18                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 32'-5"          |  |  |  |  |
| 33'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   |                     | 13         | 5     | 6 1/4               | 36                                            | 33                                               | 11                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 9                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 33'-5"          |  |  |  |  |
| 34'-5"                                                                                                | 446               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            | 30                                               | 11                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 8                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 34'-5"          |  |  |  |  |
| 35'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 11         | 5     | 6 1/4               | 36                                            | 28                                               | 10                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 7                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 35'-5"          |  |  |  |  |
| 36'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 9          | 5     | 6 1/4               | 36                                            | 26                                               | 9                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 6                                      | 4 1/2 | 6                   |                             | N/A   |                     | 9                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 3               |  |  |  |  |

|      |                         |            |     |        |
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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0296, 0.022 Minimum Thickness Galvanized or Stainless Steel - 30 PSF |                      |       |                 |                   |                             |                                  |                                 |                                                 |      |                           |          |                       |       |          |             |       |          |                             |       |                                                                  |                                |       |          |                                             |       |          |                    |       |                       |          |         |               |                          |              |                            |                               |                            |                               |                  |        |        |                 |        |        |        |
|----------------------------------------------------------------------------------------|----------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|---------------------------|----------|-----------------------|-------|----------|-------------|-------|----------|-----------------------------|-------|------------------------------------------------------------------|--------------------------------|-------|----------|---------------------------------------------|-------|----------|--------------------|-------|-----------------------|----------|---------|---------------|--------------------------|--------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|--------|--------|-----------------|--------|--------|--------|
| Guide Construction                                                                     |                      |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |                           |          |                       |       |          |             |       |          |                             |       | Steel (Wall anchors are the same diameter as assembly fasteners) |                                |       |          |                                             |       |          |                    |       |                       |          |         |               |                          |              |                            |                               |                            |                               |                  |        |        |                 |        |        |        |
| D.B.G.<br>Up To                                                                        | Windlock<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      | Powers Power-Stud+<br>SD1 |          | Simpson Strong-Bolt 2 |       |          | Hilti KH-EZ |       |          | Simpson Strong-Tie<br>Titen |       |                                                                  | Hilti KH-EZ Stainless<br>Steel |       |          | Simpson Strong-Tie<br>Titen Stainless Steel |       |          | Through<br>Bolting |       | Min. Edge<br>Distance | Welded   |         | Through Bolt  |                          |              | Tapped Bolt                |                               |                            | Superimposed Loads            |                  |        |        | D.B.G.<br>Up To |        |        |        |
|                                                                                        |                      |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed                     | Max O.C. | Dia.                  | Embed | Max O.C. | Dia.        | Embed | Max O.C. | Dia.                        | Embed | Max O.C.                                                         | Dia.                           | Embed | Max O.C. | Dia.                                        | Embed | Max O.C. | Dia.               | Embed |                       | Max O.C. | Dia.    | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size    | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Min<br>Thickness | Vx (+) | Vy (+) |                 | Vx (-) | Vy (-) |        |
| 5'-5"                                                                                  | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 3/8  | 1 7/8                     | 10       | 3/8                   | 2 3/8 | 10       | 3/8         | 2 5/8 | 28       | 3/8                         | 3 1/4 | 16                                                               | 1/2                            | 3 1/2 | 28       | 3/8                                         | 3 1/4 | 15       | 1/2                | 3 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 83     | 0               | 81     | 5'-5"  |        |
| 6'-5"                                                                                  | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/8  | 3                         | 8        | 3/8                   | 2 3/8 | 8        | 3/8         | 2 5/8 | 24       | 3/8                         | 3 1/4 | 13                                                               | 1/2                            | 3 1/2 | 23       | 3/8                                         | 3 1/4 | 13       | 1/2                | 3 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 98     | 0               | 96     | 6'-5"  |        |
| 7'-5"                                                                                  | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/8  | 3                         | 9        | 1/2                   | 2 1/2 | 9        | 1/2         | 3 1/2 | 20       | 3/8                         | 3 1/4 | 15                                                               | 5/8                            | 4 1/2 | 20       | 3/8                                         | 3 1/4 | 15       | 5/8                | 4 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 113    | 0               | 111    | 7'-5"  |        |
| 8'-5"                                                                                  | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/8  | 3                         | 10       | 5/8                   | 3 3/8 | 13       | 5/8         | 4 3/8 | 18       | 3/8                         | 3 1/4 | 13                                                               | 5/8                            | 4 1/2 | 18       | 3/8                                         | 3 1/4 | 13       | 5/8                | 4 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 128    | 0               | 126    | 8'-5"  |        |
| 9'-5"                                                                                  | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 3/8  | 3                         | 9        | 5/8                   | 3 3/8 | 11       | 5/8         | 4 3/8 | 16       | 3/8                         | 3 1/4 | 12                                                               | 5/8                            | 4 1/2 | 16       | 3/8                                         | 3 1/4 | 12       | 5/8                | 4 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 143    | 0               | 141    | 9'-5"  |        |
| 10'-5"                                                                                 | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3                         | 8        | 5/8                   | 3 3/8 | 10       | 5/8         | 4 3/8 | 14       | 3/8                         | 3 1/4 | 14                                                               | 3/4                            | 5 1/2 | 14       | 3/8                                         | 3 1/4 | 9        | 3/4                | 5 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 158    | 0               | 156    | 10'-5" |        |
| 11'-5"                                                                                 | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3                         | N/A      | N/A                   | N/A   | 9        | 5/8         | 4 3/8 | 13       | 3/8                         | 3 1/4 | 13                                                               | 3/4                            | 5 1/2 | 13       | 3/8                                         | 3 1/4 | 8        | 3/4                | 5 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 173    | 0               | 171    | 11'-5" |        |
| 12'-5"                                                                                 | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4                     | N/A      | N/A                   | N/A   | 9        | 5/8         | 4 3/8 | 12       | 3/8                         | 3 1/4 | 12                                                               | 3/4                            | 5 1/2 | 12       | 3/8                                         | 3 1/4 | N/A      | N/A                | N/A   | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 188    | 0               | 186    | 12'-5" |        |
| 13'-5"                                                                                 | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8  | 4 1/2                     | N/A      | N/A                   | N/A   | 8        | 5/8         | 4 3/8 | 11       | 3/8                         | 3 1/4 | N/A                                                              | N/A                            | N/A   | 11       | 3/8                                         | 3 1/4 | N/A      | N/A                | N/A   | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 203    | 0               | 201    | 13'-5" |        |
| 14'-5"                                                                                 | N/A                  | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2                     | N/A      | N/A                   | N/A   | 9        | 3/4         | 5 1/4 | 10       | 3/8                         | 3 1/4 | N/A                                                              | N/A                            | N/A   | 10       | 3/8                                         | 3 1/4 | N/A      | N/A                | N/A   | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 218    | 0               | 216    | 14'-5" |        |
| 15'-5"                                                                                 | 1 1/2                | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 11                                              | 3/8  | 3                         | 10       | 5/8                   | 3 3/8 | 12       | 5/8         | 4 3/8 | 21       | 3/8                         | 3 1/4 | 13                                                               | 5/8                            | 4 1/2 | 21       | 3/8                                         | 3 1/4 | 12       | 5/8                | 4 1/2 | 8                     | 3/8      | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 19                            | 16               | 3/16   | 162    | 232             | 140    | 231    | 15'-5" |
| 16'-5"                                                                                 | 1 1/2                | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 9                                               | 1/2  | 3 3/4                     | 8        | 5/8                   | 3 3/8 | 10       | 5/8         | 4 3/8 | 13       | 3/8                         | 3 1/4 | 14                                                               | 3/4                            | 5 1/2 | 13       | 3/8                                         | 3 1/4 | N/A      | N/A                | N/A   | 8                     | 3/8      | 5 3/4   | 26            | 36                       | 7/16" x 5/8" | 24                         | 19                            | 7                          | 3/16                          | 378              | 247    | 358    | 247             | 16'-5" |        |        |
| 17'-5"                                                                                 | 1 1/2                | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 13                              | 8                                               | 5/8  | 4 1/2                     | N/A      | N/A                   | N/A   | 8        | 3/4         | 5 1/4 | 8        | 3/8                         | 3 1/4 | N/A                                                              | N/A                            | N/A   | 12       | 1/2                                         | 4 1/4 | N/A      | N/A                | N/A   | 8                     | 3/8      | 5 3/4   | 17            | 32                       | 7/16" x 5/8" | 16                         | 11                            | 6                          | 5                             | 3/16             | 578    | 262    | 560             | 262    | 17'-5" |        |
| 18'-5"                                                                                 | 2                    | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 8                                               | 5/8  | 4 1/2                     | N/A      | N/A                   | N/A   | 8        | 3/4         | 5 1/4 | 16       | 1/2                         | 4 1/4 | N/A                                                              | N/A                            | N/A   | 13       | 1/2                                         | 4 1/4 | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 27            | 36                       | 9/16" x 3/4" | 36                         | 29                            | 13                         | 9                             | 1/4              | 586    | 291    | 576             | 291    | 18'-5" |        |
| 19'-5"                                                                                 | 2                    | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 8                                               | 5/8  | 4 1/2                     | N/A      | N/A                   | N/A   | 8        | 3/4         | 5 1/4 | 16       | 1/2                         | 4 1/4 | N/A                                                              | N/A                            | N/A   | 13       | 1/2                                         | 4 1/4 | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 27            | 36                       | 9/16" x 3/4" | 36                         | 29                            | 13                         | 9                             | 1/4              | 586    | 291    | 576             | 291    | 19'-5" |        |
| 20'-5"                                                                                 | 2                    | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 13                                              | 3/4  | 5 1/2                     | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | 12       | 1/2                         | 4 1/4 | N/A                                                              | N/A                            | N/A   | 9        | 1/2                                         | 4 1/4 | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 22            | 34                       | 9/16" x 3/4" | 30                         | 23                            | 10                         | 7                             | 1/4              | 734    | 306    | 724             | 306    | 20'-5" |        |
| 21'-5"                                                                                 | 2                    | 1.219 | CP0629          | 445               | 10                          | 1/2                              | 17                              | 11                                              | 3/4  | 5 1/2                     | N/A      | N/A                   | N/A   | 9        | 1/2         | 4 1/4 | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | 8        | 1/2                                         | 4 1/4 | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 18            | 28                       | 9/16" x 3/4" | 25                         | 19                            | 9                          | 6                             | 1/4              | 875    | 321    | 866             | 321    | 21'-5" |        |
| 22'-5"                                                                                 | 2                    | 1.156 | CP0630          | 445               | 10                          | 1/2                              | 15                              | 9                                               | 3/4  | 5 1/2                     | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | 8        | 1/2                         | 4 1/4 | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 15            | 24                       | 9/16" x 3/4" | 20                         | 14                            | 7                          | 5                             | 1/4              | 1053   | 336    | 1043            | 337    | 22'-5" |        |
| 23'-5"                                                                                 | 2                    | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 13                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | 8        | 3/4                         | 6 1/4 | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 13            | 21                       | 9/16" x 3/4" | 17                         | 12                            | 6                          | N/A                           | 1/4              | 1190   | 351    | 1181            | 352    | 23'-5" |        |
| 24'-5"                                                                                 | 2                    | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 12                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | N/A   | 8                     | 1/2      | 6 13/16 | 12            | 19                       | 9/16" x 3/4" | 15                         | 10                            | 6                          | N/A                           | 1/4              | 1325   | 366    | 1316            | 367    | 24'-5" |        |
| 25'-5"                                                                                 | 2                    | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 18                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 5/8                   | 6 7/8    | 13      | 20            | 11/16" x 7/8"            | 23           | 17                         | 8                             | 5                          | 5/16                          | 1458             | 381    | 1449   | 382             | 25'-5" |        |        |
| 26'-5"                                                                                 | 2                    | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 17                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 5/8                   | 6 7/8    | 11      | 18            | 11/16" x 7/8"            | 21           | 15                         | 7                             | 5                          | 5/16                          | 1591             | 396    | 1581   | 397             | 26'-5" |        |        |
| 27'-5"                                                                                 | 2                    | 1.156 | CP0630 & CP0647 | 446               | 6                           | 5/8                              | 15                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 5/8                   | 6 7/8    | 11      | 17            | 11/16" x 7/8"            | 19           | 13                         | 6                             | 5                          | 5/16                          | 1722             | 412    | 1713   | 412             | 27'-5" |        |        |
| 28'-5"                                                                                 | 2                    | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 5/8                   | 6 7/8    | 10      | 16            | 11/16" x 7/8"            | 17           | 12                         | 6                             | N/A                        | 5/16                          | 1853             | 427    | 1844   | 428             | 28'-5" |        |        |
| 29'-5"                                                                                 | 2                    | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 5/8                   | 6 7/8    | 9       | 14            | 11/16" x 7/8"            | 15           | 10                         | 6                             | N/A                        | 5/16                          | 1984             | 442    | 1975   | 443             | 29'-5" |        |        |
| 30'-5"                                                                                 | 2                    | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 5/8                   | 6 7/8    | 8       | 14            | 11/16" x 7/8"            | 14           | 9                          | 5                             | N/A                        | 5/16                          | 2115             | 457    | 2106   | 458             | 30'-5" |        |        |
| 31'-5"                                                                                 | 2 1/2                | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 3/4                   | 7 1/2    | 17      | 20            | 7/8" x 1"                | 36           | 30                         | 14                            | 10                         | 3/8                           | 1836             | 471    | 1827   | 471             | 31'-5" |        |        |
| 32'-5"                                                                                 | 2 1/2                | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 3/4                   | 7 1/2    | 16      | 19            | 7/8" x 1"                | 36           | 29                         | 13                            | 9                          | 3/8                           | 1948             | 486    | 1939   | 486             | 32'-5" |        |        |
| 33'-5"                                                                                 | 2 1/2                | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 3/4                   | 7 1/2    | 15      | 18            | 7/8" x 1"                | 35           | 26                         | 12                            | 9                          | 3/8                           | 2060             | 501    | 2052   | 502             | 33'-5" |        |        |
| 34'-5"                                                                                 | 2 1/2                | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              | N/A                                             | N/A  | N/A                       | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                         | N/A   | N/A                                                              | N/A                            | N/A   | N/A      | N/A                                         | N/A   | N/A      | N/A                | 8     | 3/4                   | 7 1/2    | 15      | 17            | 7/8" x 1"                | 33           | 25                         | 11                            | 8                          | 3/8                           | 2173             | 516    | 2165   | 517             | 34'-5" |        |        |
| 35'-5"                                                                                 | 2 1/2                | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              | N/A                                             | N/A  | N/A                       |          |                       |       |          |             |       |          |                             |       |                                                                  |                                |       |          |                                             |       |          |                    |       |                       |          |         |               |                          |              |                            |                               |                            |                               |                  |        |        |                 |        |        |        |

|      |                         |            |     |        |
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| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 30 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 28                | 2 3/8 | 4                   | 27                     | 2 3/8 | 3 3/4               | 28                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 27                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 24                                        | 1 7/8 | 3 1/4               | 27                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 5'-5"           |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 25                | 2 3/8 | 4                   | 24                     | 2 3/8 | 3 3/4               | 25                  | 2 1/2 | 4                   | 33          | 2 1/2 | 4                   | 24                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 22                                        | 1 7/8 | 3 1/4               | 25                                     | 2 1/2 | 4                   | 35                          | 2 1/2 | 4                   | 35                                  | 2 1/2 | 4                   | 5 3/4                 | 6'-5"           |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 20                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 32                          | 2 1/2 | 4                   | 33                                  | 2 1/2 | 4                   | 5 3/4                 | 7'-5"           |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 19                                        | 1 7/8 | 3 1/4               | 22                                     | 2 1/2 | 4                   | 30                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4                   | 5 3/4                 | 8'-5"           |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 20                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 29                          | 2 1/2 | 4                   | 29                                  | 2 1/2 | 4                   | 5 3/4                 | 9'-5"           |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            | 33                                               |                                          | N/A   |                     | 17                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 27                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4                   | 5 3/4                 | 10'-5"          |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            | 30                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 26                                  | 2 1/2 | 4                   | 5 3/4                 | 11'-5"          |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            | 27                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 25                          | 2 1/2 | 4                   | 25                                  | 2 1/2 | 4                   | 5 3/4                 | 12'-5"          |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 24         | 3 1/2 | 4 3/4               | 33                                            | 25                                               |                                          | N/A   |                     | 15                                        | 1 7/8 | 3 1/4               | 17                                     | 2 1/2 | 4                   | 24                          | 2 1/2 | 4                   | 24                                  | 2 1/2 | 4                   | 5 3/4                 | 13'-5"          |
| 14'-5"                                                                                                | 344*              |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 22         | 3 1/2 | 4 3/4               | 30                                            | 23                                               |                                          | N/A   |                     | 14                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 23                          | 2 1/2 | 4                   | 23                                  | 2 1/2 | 4                   | 5 3/4                 | 14'-5"          |
| 15'-5"                                                                                                | 344               |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 22                     | 2 3/8 | 3 3/4               | 23                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 22                  | 2 1/4 | 4                   | 35         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 17                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 31                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4                   | 5 3/4                 | 15'-5"          |
| 16'-5"                                                                                                | 344               |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 12                                        | 1 7/8 | 3 1/4               | 17                                     | 2 1/2 | 4                   | 23                          | 2 1/2 | 4                   | 23                                  | 2 1/2 | 4                   | 5 3/4                 | 16'-5"          |
| 17'-5"                                                                                                | 344               |                       | N/A   |                     | 11                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 34                                            | 24                                               |                                          | N/A   |                     | 6                                         | 1 7/8 | 3 1/4               | 14                                     | 2 1/2 | 4                   | 18                          | 2 1/2 | 4                   | 18                                  | 2 1/2 | 4                   | 5 3/4                 | 17'-5"          |
| 18'-5"                                                                                                | 445               | 22                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 22                                       | 3 7/8 | 6                   | 15                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 28                                  | 4     | 6 1/4               | 6 13/16               | 18'-5"          |
| 19'-5"                                                                                                | 445               | 22                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 21                  | 3 3/4 | 5 1/2               | 25          | 4 1/4 | 6 3/4               | 20                  | 4     | 6                   | 27         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 22                                       | 3 7/8 | 6                   | 15                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 28                                  | 4     | 6 1/4               | 6 13/16               | 19'-5"          |
| 20'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 17                | 3 5/8 | 6                   | 16                     | 3 3/4 | 6                   | 19                  | 3 3/4 | 5 1/2               | 22          | 4 1/4 | 6 3/4               | 17                  | 4     | 6                   | 23         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 19                                       | 3 7/8 | 6                   | 10                                        | 2 1/2 | 4                   | 19                                     | 3 3/4 | 5 1/2               | 20                          | 4 1/4 | 6 3/4               | 25                                  | 4     | 6 1/4               | 6 13/16               | 20'-5"          |
| 21'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 14                | 3 5/8 | 6                   | 14                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 20          | 4 1/4 | 6 3/4               | 14                  | 4     | 6                   | 19         | 4 1/4 | 5 1/2               | 36                                            | 35                                               | 16                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 17                                     | 3 3/4 | 5 1/2               | 16                          | 4 1/4 | 6 3/4               | 22                                  | 4     | 6 1/4               | 6 13/16               | 21'-5"          |
| 22'-5"                                                                                                | 445               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 11                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 12                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            | 28                                               | 13                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 15                                     | 3 3/4 | 5 1/2               | 12                          | 4 1/4 | 6 3/4               | 19                                  | 4     | 6 1/4               | 6 13/16               | 22'-5"          |
| 23'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 34                                            | 24                                               | 11                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 23'-5"          |
| 24'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 30                                            | 20                                               | 10                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 24'-5"          |
| 25'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 11                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 18          | 5     | 7                   |                     | N/A   |                     | 17         | 5     | 6 1/4               | 36                                            | 36                                               | 16                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 10                                     | 4 1/2 | 6                   |                             | N/A   |                     | 19                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 25'-5"          |
| 26'-5"                                                                                                | 446               | 16                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   |                     | 13         | 5     | 6 1/4               | 36                                            | 32                                               | 11                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 9                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 26'-5"          |
| 27'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            | 29                                               | 10                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 8                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 27'-5"          |
| 28'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 10         | 5     | 6 1/4               | 36                                            | 26                                               | 9                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 7                                      | 4 1/2 | 6                   |                             | N/A   |                     | 9                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 28'-5"          |
| 29'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 7          | 5     | 6 1/4               | 34                                            | 23                                               | 8                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 5                                      | 4 1/2 | 6                   |                             | N/A   |                     | 8                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 29'-5"          |
| 30'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 8           | 5     | 7                   |                     | N/A   |                     |            | N/A   |                     | 31                                            | 21                                               | 7                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     |                                        | N/A   |                     |                             | N/A   |                     | 7                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 30'-5"          |
| 31'-5"                                                                                                | 548               | 17                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 18                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 20         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 18                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 11                                     | 5 1/2 | 8                   |                             | N/A   |                     | 26                                  | 6 1/4 | 10                  | 7 1/2                 | 31'-5"          |
| 32'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 14         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 17                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 10                                     | 5 1/2 | 8                   |                             | N/A   |                     | 25                                  | 6 1/4 | 10                  | 7 1/2                 | 32'-5"          |
| 33'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 16                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 9                                      | 5 1/2 | 8                   |                             | N/A   |                     | 11                                  | 6 1/4 | 10                  | 7 1/2                 | 33'-5"          |
| 34'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 12         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 12                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 8                                      | 5 1/2 | 8                   |                             | N/A   |                     | 11                                  | 6 1/4 | 10                  | 7 1/2                 | 34'-5"          |
| 35'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 11         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 11                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   |                     | 10                                  | 6 1/4 | 10                  | 7 1/2                 | 35'-5"          |
| 36'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 9          | 6 5/8 | 7 7/8               | 36                                            | 35                                               | 10                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   |                     | 9                                   | 6 1/4 | 10                  | 7 1/2                 | 36'-5"          |
| 37'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 7          | 6 5/8 | 7 7/8               | 36                                            | 33                                               |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| Guide Construction |                        |       |                 |                |                          |                            |                           |                                              |      | CP0001/CP0651 - 0.0296 0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF |          |      |                       |          |      |             |          |      |                          |          |      |                             |          |      |                                          |          |      |                 |          |                    |         |               |                       |              |                         | Steel (Wall anchors are the same diameter as assembly fasteners) |                         |                            |               |        |        |              |        |        |        |  |  |  |  |
|--------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|---------------------------------------------------------------------------------------|----------|------|-----------------------|----------|------|-------------|----------|------|--------------------------|----------|------|-----------------------------|----------|------|------------------------------------------|----------|------|-----------------|----------|--------------------|---------|---------------|-----------------------|--------------|-------------------------|------------------------------------------------------------------|-------------------------|----------------------------|---------------|--------|--------|--------------|--------|--------|--------|--|--|--|--|
| D.B.G. Up To       | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      | Powers Power-Stud+ SD1                                                                |          |      | Simpson Strong-Bolt 2 |          |      | Hilti KH-EZ |          |      | Simpson Strong-Tie Titen |          |      | Hilti KH-EZ Stainless Steel |          |      | Simpson Strong-Tie Titen Stainless Steel |          |      | Through Bolting |          | Min. Edge Distance | Welded  |               | Through Bolt          |              | Tapped Bolt             |                                                                  |                         | Superimposed Loads         |               |        |        | D.B.G. Up To |        |        |        |  |  |  |  |
|                    |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed                                                                                 | Max O.C. | Dia. | Embed                 | Max O.C. | Dia. | Embed       | Max O.C. | Dia. | Embed                    | Max O.C. | Dia. | Embed                       | Max O.C. | Dia. | Embed                                    | Max O.C. | Dia. | Embed           | Max O.C. |                    | Dia.    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C.                                       | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) | Vy (+) |              | Vx (-) | Vy (-) |        |  |  |  |  |
| 5'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/8  | 3                                                                                     | 9        | 1/2  | 2 1/2                 | 9        | 1/2  | 3 1/2       | 21       | 3/8  | 3 1/4                    | 12       | 1/2  | 3 1/2                       | 21       | 3/8  | 3 1/4                                    | 11       | 1/2  | 3 1/2           | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 110    | 0            | 108    | 5'-5"  |        |  |  |  |  |
| 6'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3                                                                                     | 10       | 5/8  | 3 3/8                 | 13       | 5/8  | 4 3/8       | 18       | 3/8  | 3 1/4                    | 13       | 5/8  | 4 1/2                       | 17       | 3/8  | 3 1/4                                    | 13       | 5/8  | 4 1/2           | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 130    | 0            | 128    | 6'-5"  |        |  |  |  |  |
| 7'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 3/8  | 3                                                                                     | 9        | 5/8  | 3 3/8                 | 11       | 5/8  | 4 3/8       | 15       | 3/8  | 3 1/4                    | 15       | 3/4  | 5 1/2                       | 15       | 3/8  | 3 1/4                                    | 9        | 3/4  | 5 1/2           | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 150    | 0            | 148    | 7'-5"  |        |  |  |  |  |
| 8'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3                                                                                     |          | N/A  |                       | 10       | 5/8  | 4 3/8       | 13       | 3/8  | 3 1/4                    | 13       | 3/4  | 5 1/2                       | 13       | 3/8  | 3 1/4                                    | 8        | 3/4  | 5 1/2           | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 170    | 0            | 168    | 8'-5"  |        |  |  |  |  |
| 9'-5"              | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 5/8  | 4 1/2                                                                                 |          | N/A  |                       | 8        | 5/8  | 4 3/8       | 12       | 3/8  | 3 1/4                    |          | N/A  |                             | 12       | 3/8  | 3 1/4                                    |          | N/A  |                 | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 190    | 0            | 188    | 9'-5"  |        |  |  |  |  |
| 10'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2                                                                                 |          | N/A  |                       | 8        | 5/8  | 4 3/8       | 11       | 3/8  | 3 1/4                    |          | N/A  |                             | 11       | 3/8  | 3 1/4                                    |          | N/A  |                 | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 210    | 0            | 208    | 10'-5" |        |  |  |  |  |
| 11'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2                                                                                 |          | N/A  |                       | 8        | 3/4  | 5 1/4       | 10       | 3/8  | 3 1/4                    |          | N/A  |                             | 10       | 3/8  | 3 1/4                                    |          | N/A  |                 | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 230    | 0            | 228    | 11'-5" |        |  |  |  |  |
| 12'-5"             | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2                                                                                 |          | N/A  |                       |          | N/A  |             | 9        | 3/8  | 3 1/4                    |          | N/A  |                             | 9        | 3/8  | 3 1/4                                    |          | N/A  |                 | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 36                      | 36                         | 3/16          | 0      | 250    | 0            | 248    | 12'-5" |        |  |  |  |  |
| 13'-5"             | 1 5/16                 | 0.532 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 3/8  | 3                                                                                     |          | N/A  |                       | 9        | 5/8  | 4 3/8       | 17       | 3/8  | 3 1/4                    | 13       | 3/4  | 5 1/2                       | 17       | 3/8  | 3 1/4                                    |          | N/A  |                 | 8        | 3/8                | 5 3/4   | 36            | 36                    | 7/16" x 5/8" | 36                      | 36                                                               | 20                      | 16                         | 3/16          | 152    | 270    | 117          | 268    | 13'-5" |        |  |  |  |  |
| 14'-5"             | 1 7/16                 | 0.657 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 10                                           | 1/2  | 3 3/4                                                                                 | 10       | 5/8  | 3 3/8                 | 12       | 5/8  | 4 3/8       | 15       | 3/8  | 3 1/4                    | 12       | 5/8  | 4 1/2                       | 14       | 3/8  | 3 1/4                                    | 10       | 5/8  | 4 1/2           | 8        | 3/8                | 5 3/4   | 30            | 36                    | 7/16" x 5/8" | 28                      | 22                                                               | 10                      | 8                          | 3/16          | 316    | 290    | 287          | 289    | 14'-5" |        |  |  |  |  |
| 15'-5"             | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 13                        | 8                                            | 5/8  | 4 1/2                                                                                 |          | N/A  |                       | 9        | 3/4  | 5 1/4       | 8        | 3/8  | 3 1/4                    |          | N/A  |                             | 13       | 1/2  | 4 1/4                                    |          | N/A  |                 | 8        | 3/8                | 5 3/4   | 19            | 34                    | 7/16" x 5/8" | N/A                     | 18                                                               | 13                      | 6                          | 5             | 3/16   | 524    | 310          | 500    | 309    | 15'-5" |  |  |  |  |
| 16'-5"             | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                            | 5/8  | 4 1/2                                                                                 |          | N/A  |                       | 8        | 3/4  | 5 1/4       | 14       | 1/2  | 4 1/4                    |          | N/A  |                             | 12       | 1/2  | 4 1/4                                    |          | N/A  |                 | 8        | 1/2                | 6 13/16 | 27            | 36                    | 9/16" x 3/4" | 36                      | 28                                                               | 13                      | 9                          | 1/4           | 601    | 348    | 588          | 348    | 16'-5" |        |  |  |  |  |
| 17'-5"             | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                            | 5/8  | 4 1/2                                                                                 |          | N/A  |                       | 8        | 3/4  | 5 1/4       | 14       | 1/2  | 4 1/4                    |          | N/A  |                             | 12       | 1/2  | 4 1/4                                    |          | N/A  |                 | 8        | 1/2                | 6 13/16 | 27            | 36                    | 9/16" x 3/4" | 36                      | 28                                                               | 13                      | 9                          | 1/4           | 601    | 348    | 588          | 348    | 17'-5" |        |  |  |  |  |
| 18'-5"             | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 17                        | 11                                           | 3/4  | 5 1/2                                                                                 |          | N/A  |                       |          | N/A  |             | 9        | 1/2  | 4 1/4                    |          | N/A  |                             | 9        | 1/2  | 4 1/4                                    |          | N/A  |                 | 8        | 1/2                | 6 13/16 | 20            | 31                    | 9/16" x 3/4" | 28                      | 21                                                               | 10                      | 7                          | 1/4           | 793    | 368    | 780          | 368    | 18'-5" |        |  |  |  |  |
| 19'-5"             | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 14                        | 9                                            | 3/4  | 5 1/2                                                                                 |          | N/A  |                       |          | N/A  |             | 8        | 1/2  | 4 1/4                    |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 1/2      | 6 13/16            | 15      | 24            | 9/16" x 3/4"          | 21           | 15                      | 7                                                                | 5                       | 1/4                        | 1020          | 388    | 1008   | 389          | 19'-5" |        |        |  |  |  |  |
| 20'-5"             | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 13                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             | 8        | 3/4  | 6 1/4                    |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 1/2      | 6 13/16            | 13      | 21            | 9/16" x 3/4"          | 17           | 12                      | 6                                                                | N/A                     | 1/4                        | 1201          | 408    | 1189   | 409          | 20'-5" |        |        |  |  |  |  |
| 21'-5"             | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 11                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 1/2      | 6 13/16            | 11      | 18            | 9/16" x 3/4"          | 14           | 9                       | 5                                                                | N/A                     | 1/4                        | 1378          | 428    | 1365   | 429          | 21'-5" |        |        |  |  |  |  |
| 22'-5"             | 2                      | 1.156 | CP0630          | 446            | 8                        | 5/8                        | 16                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 5/8      | 6 7/8              | 12      | 19            | 11/16" x 7/8"         | 21           | 15                      | 7                                                                | 5                       | 5/16                       | 1551          | 448    | 1539   | 449          | 22'-5" |        |        |  |  |  |  |
| 23'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 15                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 5/8      | 6 7/8              | 11      | 17            | 11/16" x 7/8"         | 19           | 13                      | 6                                                                | 5                       | 5/16                       | 1721          | 468    | 1709   | 469          | 23'-5" |        |        |  |  |  |  |
| 24'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 5/8      | 6 7/8              | 10      | 15            | 11/16" x 7/8"         | 16           | 11                      | 6                                                                | N/A                     | 5/16                       | 1890          | 488    | 1878   | 490          | 24'-5" |        |        |  |  |  |  |
| 25'-5"             | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 5/8      | 6 7/8              | 9       | 14            | 11/16" x 7/8"         | 15           | 10                      | 5                                                                | N/A                     | 5/16                       | 2058          | 509    | 2047   | 510          | 25'-5" |        |        |  |  |  |  |
| 26'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 18      | 20            | 7/8" x 1"             | 36           | 31                      | 14                                                               | 10                      | 3/8                        | 1803          | 528    | 1791   | 528          | 26'-5" |        |        |  |  |  |  |
| 27'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 16      | 19            | 7/8" x 1"             | 36           | 28                      | 13                                                               | 9                       | 3/8                        | 1946          | 548    | 1934   | 548          | 27'-5" |        |        |  |  |  |  |
| 28'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 15      | 17            | 7/8" x 1"             | 34           | 26                      | 12                                                               | 8                       | 3/8                        | 2089          | 568    | 2078   | 568          | 28'-5" |        |        |  |  |  |  |
| 29'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 14      | 16            | 7/8" x 1"             | 32           | 24                      | 11                                                               | 8                       | 3/8                        | 2233          | 588    | 2221   | 589          | 29'-5" |        |        |  |  |  |  |
| 30'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 13      | 15            | 7/8" x 1"             | 30           | 22                      | 10                                                               | 7                       | 3/8                        | 2377          | 608    | 2365   | 609          | 30'-5" |        |        |  |  |  |  |
| 31'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 12      | 14            | 7/8" x 1"             | 28           | 20                      | 10                                                               | 7                       | 3/8                        | 2521          | 629    | 2510   | 629          | 31'-5" |        |        |  |  |  |  |
| 32'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 12      | 13            | 7/8" x 1"             | 26           | 18                      | 9                                                                | 7                       | 3/8                        | 2666          | 649    | 2655   | 649          | 32'-5" |        |        |  |  |  |  |
| 33'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 11      | 13            | 7/8" x 1"             | 24           | 17                      | 9                                                                | 6                       | 3/8                        | 2812          | 669    | 2801   | 670          | 33'-5" |        |        |  |  |  |  |
| 34'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 11      | 12            | 7/8" x 1"             | 23           | 16                      | 8                                                                | 6                       | 3/8                        | 2959          | 690    | 2948   | 690          | 34'-5" |        |        |  |  |  |  |
| 35'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 5                        | 3/4                        | 12                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 7 1/2              | 10      | 12            | 7/8" x 1"             | 21           | 14                      | 8                                                                | 6                       | 3/8                        | 3107          | 710    | 3096   | 711          | 35'-5" |        |        |  |  |  |  |
| 36'-5"             | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 12                        |                                              | N/A  |                                                                                       |          | N/A  |                       |          | N/A  |             |          | N/A  |                          |          | N/A  |                             |          | N/A  |                                          | N/A      |      | 8               | 3/4      | 9 1/4              | 10      | 11            | 7/8" x 1"             |              | 13                      | 7                                                                | 5                       | 3/8                        | 3257          | 730    | 3245   | 731          | 36'-5" |        |        |  |  |  |  |



24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
MOUNTAINTOP, PA GOODYEAR, AZ

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Unless otherwise specified, dimensions are in inches & tolerances are:  
  
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD

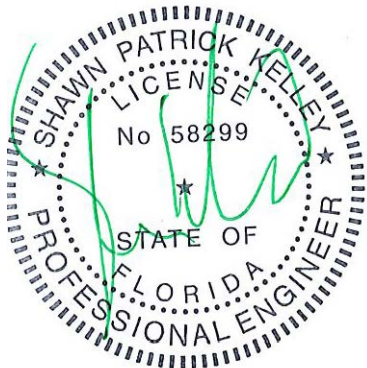
SIZE: B

SCALE: AS NOTED

SHEET:

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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |       |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|-------|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |       |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |       | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. |                                     |       |       |                       |                 |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 21                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 33                          | 2 1/2 | 4                   | 33                                  | 2 1/2 | 4     | 5 3/4                 | 5'-5"           |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 19                                        | 1 7/8 | 3 1/4               | 22                                     | 2 1/2 | 4                   | 30                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4     | 5 3/4                 | 6'-5"           |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 33         | 3 1/2 | 4 3/4               | 36                                            | 34                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 28                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4     | 5 3/4                 | 7'-5"           |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            | 30                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 27                                  | 2 1/2 | 4     | 5 3/4                 | 8'-5"           |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            | 27                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 25                          | 2 1/2 | 4                   | 25                                  | 2 1/2 | 4     | 5 3/4                 | 9'-5"           |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            | 24                                               |                                          | N/A   |                     | 15                                        | 1 7/8 | 3 1/4               | 17                                     | 2 1/2 | 4                   | 23                          | 2 1/2 | 4                   | 24                                  | 2 1/2 | 4     | 5 3/4                 | 10'-5"          |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 29                                            | 22                                               |                                          | N/A   |                     | 14                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 23                                  | 2 1/2 | 4     | 5 3/4                 | 11'-5"          |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 19         | 3 1/2 | 4 3/4               | 26                                            | 20                                               |                                          | N/A   |                     | 13                                        | 1 7/8 | 3 1/4               | 15                                     | 2 1/2 | 4                   | 21                          | 2 1/2 | 4                   | 22                                  | 2 1/2 | 4     | 5 3/4                 | 12'-5"          |
| 13'-5"                                                                                                | 344               |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            | 30                                               |                                          | N/A   |                     | 15                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 28                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4     | 5 3/4                 | 13'-5"          |
| 14'-5"                                                                                                | 344               |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 13                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 25                          | 2 1/2 | 4                   | 24                                  | 2 1/2 | 4     | 5 3/4                 | 14'-5"          |
| 15'-5"                                                                                                | 344               |                       | N/A   |                     | 12                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 36                                            | 26                                               |                                          | N/A   |                     | 6                                         | 1 7/8 | 3 1/4               | 14                                     | 2 1/2 | 4                   | 19                          | 2 1/2 | 4                   | 19                                  | 2 1/2 | 4     | 5 3/4                 | 15'-5"          |
| 16'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 24          | 4 1/4 | 6 3/4               | 19                  | 4     | 6                   | 26         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 21                                       | 3 7/8 | 6                   | 14                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 27                                  | 4     | 6 1/4 | 6 13/16               | 16'-5"          |
| 17'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 19                | 3 5/8 | 6                   | 18                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 24          | 4 1/4 | 6 3/4               | 19                  | 4     | 6                   | 26         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 21                                       | 3 7/8 | 6                   | 14                                        | 2 1/2 | 4                   | 21                                     | 3 3/4 | 5 1/2               | 23                          | 4 1/4 | 6 3/4               | 27                                  | 4     | 6 1/4 | 6 13/16               | 17'-5"          |
| 18'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 20         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 17                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 18                                     | 3 3/4 | 5 1/2               | 18                          | 4 1/4 | 6 3/4               | 23                                  | 4     | 6 1/4 | 6 13/16               | 18'-5"          |
| 19'-5"                                                                                                | 445               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 11                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 12                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            | 28                                               | 13                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 15                                     | 3 3/4 | 5 1/2               | 12                          | 4 1/4 | 6 3/4               | 19                                  | 4     | 6 1/4 | 6 13/16               | 19'-5"          |
| 20'-5"                                                                                                | 445               | 12                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 14         | 4 1/4 | 5 1/2               | 33                                            | 23                                               | 11                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4 | 6 13/16               | 20'-5"          |
| 21'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 11         | 4 1/4 | 5 1/2               | 27                                            | 18                                               | 9                                        | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4 | 6 13/16               | 21'-5"          |
| 22'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   |                     | 13         | 5     | 6 1/4               | 36                                            | 33                                               | 11                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 9                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2 | 6 7/8                 | 22'-5"          |
| 23'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 11         | 5     | 6 1/4               | 36                                            | 28                                               | 10                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 8                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2 | 6 7/8                 | 23'-5"          |
| 24'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 8          | 5     | 6 1/4               | 36                                            | 25                                               | 9                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 6                                      | 4 1/2 | 6                   |                             | N/A   |                     | 8                                   | 5 1/2 | 8 1/2 | 6 7/8                 | 24'-5"          |
| 25'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   |                        | N/A   |                     |                     | N/A   |                     | 8           | 5     | 7                   |                     | N/A   |                     | 5          | 5     | 6 1/4               | 32                                            | 22                                               | 7                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 5                                      | 3 3/4 | 5 1/2               |                             | N/A   |                     | 7                                   | 5 1/2 | 8 1/2 | 6 7/8                 | 25'-5"          |
| 26'-5"                                                                                                | 548               | 17                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 18                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 20         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 18                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 11                                     | 5 1/2 | 8                   |                             | N/A   |                     | 26                                  | 6 1/4 | 10    | 7 1/2                 | 26'-5"          |
| 27'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 17                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 10                                     | 5 1/2 | 8                   |                             | N/A   |                     | 24                                  | 6 1/4 | 10    | 7 1/2                 | 27'-5"          |
| 28'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 12                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 9                                      | 5 1/2 | 8                   |                             | N/A   |                     | 11                                  | 6 1/4 | 10    | 7 1/2                 | 28'-5"          |
| 29'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 11         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 11                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 8                                      | 5 1/2 | 8                   |                             | N/A   |                     | 10                                  | 6 1/4 | 10    | 7 1/2                 | 29'-5"          |
| 30'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 9          | 6 5/8 | 7 7/8               | 36                                            | 35                                               | 10                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   |                     | 9                                   | 6 1/4 | 10    | 7 1/2                 | 30'-5"          |
| 31'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 7          | 6 5/8 | 7 7/8               | 36                                            | 32                                               | 9                                        | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 5                                      | 5 1/2 | 8                   |                             | N/A   |                     | 8                                   | 6 1/4 | 10    | 7 1/2                 | 31'-5"          |
| 32'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            | 30                                               | 8                                        | 5 3/4 | 8 3/4               |                                           | N/A   |                     |                                        | N/A   |                     |                             | N/A   |                     | 7                                   | 6 1/4 | 10    | 7 1/2                 | 32'-5"          |
| 33'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 6           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            | 28                                               | 7                                        | 5 3/4 | 8 3/4               |                                           | N/A   |                     |                                        | N/A   |                     |                             | N/A   |                     | 6                                   | 6 1/4 | 10    | 7 1/2                 | 33'-5"          |
| 34'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 5           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            | 26                                               |                                          | N/A   |                     |                                           | N/A   |                     |                                        | N/A   |                     |                             | N/A   |                     | 5                                   | 6 1/4 | 10    | 7 1/2                 | 34'-5"          |
| 35'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     |             | N/A   |                     |                     | N/A   |                     |            | N/A   |                     | 35                                            | 24                                               |                                          | N/A   |                     |                                           | N/A   |                     |                                        | N/A   |                     |                             | N/A   |                     |                                     | N/A   |       | 7 1/2                 | 35'-5"          |
| 36'-5"                                                                                                | DC6               | 9                     | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 9          | 6 5/8 | 7 7/8               | 36                                            | 34                                               | 10                                       | 5 3/4 | 8 3/4               | 8                                         | 4 1/2 | 6                   | 8                                      | 5 1/2 | 8                   |                             | N/A   |                     | 8                                   | 6 1/4 | 10    | 9 1/4                 | 36'-5"          |



24 ELMWOOD AVE 1901 S. LITCHFIELD RD  
MOUNTAINTOP, PA GOODYEAR, AZ

P: 800.233.8366  
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TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: KAD  
SIZE: B  
SCALE: AS NOTED  
SHEET: 39/58

DWG NO: ES-16-137-CIW

Unless otherwise specified, dimensions are in inches & tolerances are:  
  
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L'TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 50 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                             |      |       |                                                                  |      |         |                 |         |                    |               |                       |              |                         |                            |                         |                            |               |                    |        |        |        |              |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|--------------------------|------|-------|-----------------------------|------|-------|------------------------------------------------------------------|------|---------|-----------------|---------|--------------------|---------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------------------|--------|--------|--------|--------------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                             |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |         |                 |         |                    |               |                       |              |                         |                            |                         |                            |               |                    |        |        |        |              |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T2Z Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |      |       | Simpson Strong-Tie Titen Stainless Steel                         |      |         | Through Bolting |         | Min. Edge Distance | Welded        |                       | Through Bolt |                         |                            | Tapped Bolt             |                            |               | Superimposed Loads |        |        |        | D.B.G. Up To |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                                                         | Dia. | Embed   | Max O.C.        | Dia.    |                    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+)             | Vy (+) | Vx (-) | Vy (-) |              |        |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3     | 9                      | 5/8  | 3 3/8 | 12                    | 5/8  | 4 3/8 | 17          | 3/8  | 3 1/4 | 12                       | 5/8  | 4 1/2 | 16                          | 3/8  | 3 1/4 | 12                                                               | 5/8  | 4 1/2   | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      |                            | 36                      | 36                         | 3/16          | 0                  | 138    | 0      | 135    | 5'-5"        |        |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3     | 8                      | 5/8  | 3 3/8 | 10                    | 5/8  | 4 3/8 | 14          | 3/8  | 3 1/4 | 13                       | 3/4  | 5 1/2 | 14                          | 3/8  | 3 1/4 | 9                                                                | 3/4  | 5 1/2   | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      |                            | 36                      | 36                         | 3/16          | 0                  | 163    | 0      | 160    | 6'-5"        |        |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 1/2  | 3 3/4 |                        | N/A  |       | 9                     | 5/8  | 4 3/8 | 12          | 3/8  | 3 1/4 | 12                       | 3/4  | 5 1/2 | 12                          | 3/8  | 3 1/4 |                                                                  | N/A  |         | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      |                            | 36                      | 36                         | 3/16          | 0                  | 188    | 0      | 185    | 7'-5"        |        |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 |                          | N/A  |       | 10                          | 3/8  | 3 1/4 |                                                                  | N/A  |         | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      |                            | 36                      | 36                         | 3/16          | 0                  | 213    | 0      | 210    | 8'-5"        |        |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 |                        | N/A  |       | 8                     | 3/4  | 5 1/4 | 9           | 3/8  | 3 1/4 |                          | N/A  |       | 9                           | 3/8  | 3 1/4 |                                                                  | N/A  |         | 8               | 3/8     | 5 3/4              | 36            | 36                    | 7/16" x 5/8" | 36                      |                            | 36                      | 36                         | 3/16          | 0                  | 238    | 0      | 235    | 9'-5"        |        |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 14                                           | 3/4  | 5 1/2 |                        | N/A  |       | N/A                   |      | N/A   |             | 8    | 3/8   | 3 1/4                    |      | N/A   |                             | 12   | 1/2   | 4 1/4                                                            |      | N/A     |                 | 8       | 3/8                | 5 3/4         | 36                    | 36           | 7/16" x 5/8"            | 36                         |                         | 36                         | 36            | 3/16               | 0      | 263    | 0      | 260          | 10'-5" |
| 11'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 |                        | N/A  |       | N/A                   |      | N/A   |             | 8    | 3/8   | 3 1/4                    |      | N/A   |                             | 11   | 1/2   | 4 1/4                                                            |      | N/A     |                 | 8       | 3/8                | 5 3/4         | 36                    | 36           | 7/16" x 5/8"            | 36                         |                         | 36                         | 36            | 3/16               | 0      | 288    | 0      | 285          | 11'-5" |
| 12'-5"                                                                                | 1 3/16                 | 0.407 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 1/2  | 3 3/4 | 10                     | 5/8  | 3 3/8 | 12                    | 5/8  | 4 3/8 | 13          | 3/8  | 3 1/4 | 13                       | 5/8  | 4 1/2 | 13                          | 3/8  | 3 1/4 | 10                                                               | 5/8  | 4 1/2   | 8               | 3/8     | 5 3/4              | 29            | 36                    | 7/16" x 5/8" | 27                      | 21                         | 10                      | 8                          | 3/16          | 326                | 312    | 279    | 311    | 12'-5"       |        |
| 13'-5"                                                                                | 1 5/16                 | 0.532 | CP0629          | 344            | 12                       | 3/8                        | 14                        | 8                                            | 5/8  | 4 1/2 | N/A                    |      |       | 8                     | 5/8  | 4 3/8 | 8           | 3/8  | 3 1/4 | N/A                      |      |       | 13                          | 1/2  | 4 1/4 | N/A                                                              |      |         | 8               | 3/8     | 5 3/4              | 19            | 34                    | 7/16" x 5/8" | 18                      | 13                         | 6                       | 5                          | 3/16          | 496                | 337    | 458    | 336    | 13'-5"       |        |
| 14'-5"                                                                                | 1 7/16                 | 0.657 | CP0629          | 344            | 12                       | 3/8                        | 11                        | 12                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      | N/A   |             | 11   | 1/2   | 4 1/4                    | N/A  |       |                             | 9    | 1/2   | 4 1/4                                                            | N/A  |         |                 | 8       | 3/8                | 5 3/4         | 15                    | 27           | 7/16" x 5/8"            | 13                         | 9                       | 5                          | N/A           | 3/16               | 660    | 362    | 628    | 361          | 14'-5" |
| 15'-5"                                                                                | 1 5/8                  | 0.844 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 12                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      | N/A   |             | 10   | 1/2   | 4 1/4                    | N/A  |       |                             | 9    | 1/2   | 4 1/4                                                            | N/A  |         |                 | 8       | 1/2                | 6 13/16       | 21                    | 32           | 9/16" x 3/4"            | 30                         | 23                      | 10                         | 3             | 1/4                | 741    | 386    | 719    | 386          | 15'-5" |
| 16'-5"                                                                                | 1 7/8                  | 1.031 | CP0630          | 445            | 10                       | 1/2                        | 16                        | 10                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      | N/A   |             | 9    | 1/2   | 4 1/4                    | N/A  |       |                             | 8    | 1/2   | 4 1/4                                                            | N/A  |         |                 | 8       | 1/2                | 6 13/16       | 19                    | 29           | 9/16" x 3/4"            | 26                         | 20                      | 9                          | 6             | 1/4                | 838    | 410    | 820    | 411          | 16'-5" |
| 17'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 14                        | 9                                            | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      | N/A   |             | 8    | 1/2   | 4 1/4                    | N/A  |       |                             | N/A  |       | 8                                                                | 1/2  | 6 13/16 | 16              | 25      | 9/16" x 3/4"       | 22            | 16                    | 8            | 5                       | 1/4                        | 979                     | 435                        | 963           | 436                | 17'-5" |        |        |              |        |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 1/2             | 6 13/16 | 13                 | 21            | 9/16" x 3/4"          | 17           | 12                      | 6                          |                         | 1/4                        | 1204          | 460                | 1189   | 461    | 18'-5" |              |        |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630          | 446            | 8                        | 5/8                        | 17                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 5/8             | 6 7/8   | 13                 | 20            | 11/16" x 7/8"         | 23           | 17                      | 8                          | 6                       | 5/16                       | 1422          | 485                | 1407   | 486    | 19'-5" |              |        |
| 20'-5"                                                                                | 2                      | 1.156 | CP0630          | 546            | 8                        | 5/8                        | 15                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 5/8             | 6 7/8   | 11                 | 18            | 11/16" x 7/8"         | 20           | 14                      | 7                          | 5                       | 5/16                       | 1634          | 510                | 1619   | 511    | 20'-5" |              |        |
| 21'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 5/8             | 6 7/8   | 10                 | 16            | 11/16" x 7/8"         | 17           | 12                      | 6                          | N/A                     | 5/16                       | 1842          | 535                | 1828   | 536    | 21'-5" |              |        |
| 22'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 5/8             | 6 7/8   | 9                  | 14            | 11/16" x 7/8"         | 15           | 10                      | 5                          | N/A                     | 5/16                       | 2048          | 560                | 2034   | 562    | 22'-5" |              |        |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 17                 | 20            | 7/8" x 1"             | 36           | 31                      | 14                         | 10                      | 3/8                        | 1810          | 584                | 1795   | 585    | 23'-5" |              |        |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 16                 | 18            | 7/8" x 1"             | 36           | 28                      | 12                         | 9                       | 3/8                        | 1984          | 609                | 1970   | 610    | 24'-5" |              |        |
| 25'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 15                 | 17            | 7/8" x 1"             | 33           | 25                      | 11                         | 8                       | 3/8                        | 2158          | 635                | 2144   | 635    | 25'-5" |              |        |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 13                 | 15            | 7/8" x 1"             | 31           | 22                      | 11                         | 7                       | 3/8                        | 2332          | 660                | 2318   | 660    | 26'-5" |              |        |
| 27'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 15                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 13                 | 14            | 7/8" x 1"             | 28           | 20                      | 10                         | 7                       | 3/8                        | 2505          | 685                | 2491   | 686    | 27'-5" |              |        |
| 28'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 12                 | 13            | 7/8" x 1"             | 26           | 18                      | 9                          | 6                       | 3/8                        | 2679          | 710                | 2666   | 711    | 28'-5" |              |        |
| 29'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 11                 | 13            | 7/8" x 1"             | 24           | 16                      | 9                          | 6                       | 3/8                        | 2854          | 736                | 2840   | 736    | 29'-5" |              |        |
| 30'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 7 1/2   | 10                 | 12            | 7/8" x 1"             | 22           | 15                      | 8                          | 6                       | 3/8                        | 3030          | 761                | 3016   | 762    | 30'-5" |              |        |
| 31'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      | N/A   |             |      | N/A   |                          | N/A  |       |                             | N/A  |       | N/A                                                              |      | 8       | 3/4             | 9 1/4   | 10                 | 11            | 7/8" x 1"             | 20           | 14                      | 8                          | 5                       | 3/8                        | 3207          | 787                | 3193   | 787    | 31'-5" |              |        |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 50 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |        |                  |                    |              |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|-------|------------------|----------------------------------------|-------|------------------|-------------------------------------|-------|------------------|-----------------------------|-------|------------------|----------------------------------|--------|------------------|--------------------|--------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |        |                  |                    |              |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T2Z |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. | Through Bolting - Stainless Steel Max O.C. | Simpson Strong-Bolt 2 Stainless Steel |       |                  | Powers Power-Stud+ SD4 Stainless Steel |       |                  | Hilti Kwik Bolt T2Z Stainless Steel |       |                  | Hilti KH-EZ Stainless Steel |       |                  | Simpson Titen HD Stainless Steel |        |                  | Min. Edge Distance | D.B.G. Up To |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. |                                         |                                            | Max O.C.                              | Embed | Min. Wall Thick. | Max O.C.                               | Embed | Min. Wall Thick. | Max O.C.                            | Embed | Min. Wall Thick. | Max O.C.                    | Embed | Min. Wall Thick. | Max O.C.                         | Embed  | Min. Wall Thick. |                    |              |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 21                | 2 3/8 | 4                | 20                     | 2 3/8 | 3 3/4            | 21                  | 2 1/2 | 4                | 28          | 2 1/2 | 4                | 20                  | 2 1/4 | 4                | 36         | 3 1/2 | 4 3/4            | 36                                      | 36                                         | N/A                                   |       |                  | 18                                     | 1 7/8 | 3 1/4            | 21                                  | 2 1/2 | 4                | 29                          | 2 1/2 | 4                | 30                               | 2 1/2  | 4                | 5 3/4              | 5'-5"        |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 19                | 2 3/8 | 4                | 19                     | 2 3/8 | 3 3/4            | 20                  | 2 1/2 | 4                | 26          | 2 1/2 | 4                | 17                  | 2 1/4 | 4                | 30         | 3 1/2 | 4 3/4            | 36                                      | 32                                         | N/A                                   |       |                  | 17                                     | 1 7/8 | 3 1/4            | 19                                  | 2 1/2 | 4                | 27                          | 2 1/2 | 4                | 27                               | 2 1/2  | 4                | 5 3/4              | 6'-5"        |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 18                | 2 3/8 | 4                | 17                     | 2 3/8 | 3 3/4            | 18                  | 2 1/2 | 4                | 24          | 2 1/2 | 4                | 15                  | 2 1/4 | 4                | 26         | 3 1/2 | 4 3/4            | 35                                      | 27                                         | N/A                                   |       |                  | 16                                     | 1 7/8 | 3 1/4            | 18                                  | 2 1/2 | 4                | 25                          | 2 1/2 | 4                | 25                               | 2 1/2  | 4                | 5 3/4              | 7'-5"        |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 17                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 23         | 3 1/2 | 4 3/4            | 31                                      | 24                                         | N/A                                   |       |                  | 15                                     | 1 7/8 | 3 1/4            | 17                                  | 2 1/2 | 4                | 23                          | 2 1/2 | 4                | 24                               | 2 1/2  | 4                | 5 3/4              | 8'-5"        |
| 9'-5"                                                                                                 | 344*           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 15                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 12                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 28                                      | 21                                         | N/A                                   |       |                  | 14                                     | 1 7/8 | 3 1/4            | 16                                  | 2 1/2 | 4                | 22                          | 2 1/2 | 4                | 22                               | 2 1/2  | 4                | 5 3/4              | 9'-5"        |
| 10'-5"                                                                                                | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 18         | 3 1/2 | 4 3/4            | 25                                      | 19                                         | N/A                                   |       |                  | 13                                     | 1 7/8 | 3 1/4            | 15                                  | 2 1/2 | 4                | 21                          | 2 1/2 | 4                | 21                               | 2 1/2  | 4                | 5 3/4              | 10'-5"       |
| 11'-5"                                                                                                | 344*           | N/A                   |       |                  | 14                | 2 3/8 | 4                | 13                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 17         | 3 1/2 | 4 3/4            | 23                                      | 18                                         | N/A                                   |       |                  | 13                                     | 1 7/8 | 3 1/4            | 14                                  | 2 1/2 | 4                | 20                          | 2 1/2 | 4                | 20                               | 2 1/2  | 4                | 5 3/4              | 11'-5"       |
| 12'-5"                                                                                                | 344            | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 14                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 36                                      | 36                                         | N/A                                   |       |                  | 11                                     | 1 7/8 | 3 1/4            | 17                                  | 2 1/2 | 4                | 23                          | 2 1/2 | 4                | 23                               | 2 1/2  | 4                | 5 3/4              | 12'-5"       |
| 13'-5"                                                                                                | 344            | N/A                   |       |                  | 12                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 18          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 15         | 3 1/2 | 4 3/4            | 36                                      | 29                                         | N/A                                   |       |                  | 6                                      | 1 7/8 | 3 1/4            | 14                                  | 2 1/2 | 4                | 19                          | 2 1/2 | 4                | 19                               | 2 1/2  | 4                | 5 3/4              | 13'-5"       |
| 14'-5"                                                                                                | 344            | N/A                   |       |                  | 9                 | 2 3/8 | 4                | 5                      | 2 3/8 | 4                | 12                  | 2 1/2 | 4                | 5           | 2 1/2 | 4                | 5                   | 2 1/4 | 4                | 12         | 3 1/2 | 4 3/4            | 28                                      | 19                                         | N/A                                   |       |                  | N/A                                    |       |                  | 12                                  | 2 1/2 | 4                | 5                           | 2 1/2 | 4                | 18                               | 3 1/4  | 5                | 5 3/4              | 14'-5"       |
| 15'-5"                                                                                                | 445            | 19                    | 3 7/8 | 6                | 16                | 3 5/8 | 6                | 15                     | 3 3/4 | 6                | 18                  | 3 3/4 | 5 1/2            | 21          | 4 1/4 | 6 3/4            | 16                  | 4     | 6                | 21         | 4 1/4 | 5 1/2            | 36                                      | 36                                         | 17                                    | 3 7/8 | 6                | 9                                      | 2 1/2 | 4                | 18                                  | 3 3/4 | 5 1/2            | 19                          | 4 1/4 | 6 3/4            | 24                               | 4      | 6 1/4            | 6 13/16            | 15'-5"       |
| 16'-5"                                                                                                | 445            | 17                    | 3 7/8 | 6                | 14                | 3 5/8 | 6                | 14                     | 3 3/4 | 6                | 17                  | 3 3/4 | 5 1/2            | 20          | 4 1/4 | 6 3/4            | 14                  | 4     | 6                | 19         | 4 1/4 | 5 1/2            | 36                                      | 36                                         | 16                                    | 3 7/8 | 6                | N/A                                    |       |                  | 17                                  | 3 3/4 | 5 1/2            | 16                          | 4 1/4 | 6 3/4            | 22                               | 4      | 6 1/4            | 6 13/16            | 16'-5"       |
| 17'-5"                                                                                                | 445            | 15                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 12                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 12                  | 4     | 6                | 17         | 4 1/4 | 5 1/2            | 36                                      | 29                                         | 14                                    | 3 7/8 | 6                | N/A                                    |       |                  | 15                                  | 3 3/4 | 5 1/2            | 12                          | 4 1/4 | 6 3/4            | 19                               | 4      | 6 1/4            | 6 13/16            | 17'-5"       |
| 18'-5"                                                                                                | 445            | 12                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 14         | 4 1/4 | 5 1/2            | 32                                      | 22                                         | 10                                    | 3 7/8 | 6                | N/A                                    |       |                  | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4      | 6 1/4            | 6 13/16            | 18'-5"       |
| 19'-5"                                                                                                | 446            | 17                    | 5 1/8 | 7 7/8            | 10                | 4 1/2 | 6                | 10                     | 4 5/8 | 7                | 10                  | 4 1/2 | 6                | 17          | 5     | 7                | N/A                 |       |                  | 17         | 5     | 6 1/4            | 36                                      | 36                                         | 16                                    | 5 1/8 | 7 7/8            | N/A                                    |       |                  | 10                                  | 4 1/2 | 6                | N/A                         |       |                  | 19                               | 5 1/2  | 8 1/2            | 6 7/8              | 19'-5"       |
| 20'-5"                                                                                                | 546            | 11                    | 5 1/8 | 7 7/8            | 8                 | 4 1/2 | 6                | 8                      | 4 5/8 | 7                | 8                   | 4 1/2 | 6                | 11          | 5     | 7                | N/A                 |       |                  | 12         | 5     | 6 1/4            | 36                                      | 30                                         | 10                                    | 5 1/8 | 7 7/8            | N/A                                    |       |                  | 8                                   | 4 1/2 | 6                | N/A                         |       |                  | 10                               | 5 1/2  | 8 1/2            | 6 7/8              | 20'-5"       |
| 21'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 6                      | 4 5/8 | 7                | 6                   | 4 1/2 | 6                | 9           | 5     | 7                | N/A                 |       |                  | 9          | 5     | 6 1/4            | 36                                      | 25                                         | 9                                     | 5 1/8 | 7 7/8            | N/A                                    |       |                  | 6                                   | 4 1/2 | 6                | N/A                         |       |                  | 9                                | 5 1/2  | 8 1/2            | 6 7/8              | 21'-5"       |
| 22'-5"                                                                                                | 546            | 8                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | N/A                    |       |                  | 8                   | 5     | 7                | N/A         |       |                  | N/A                 |       |                  | N/A        |       |                  | 32                                      | 22                                         | 7                                     | 5 1/8 | 7 7/8            | N/A                                    |       |                  | N/A                                 |       |                  | 7                           | 5 1/2 | 8 1/2            | 6 7/8                            | 22'-5" |                  |                    |              |
| 23'-5"                                                                                                | 548            | 16                    | 5 3/4 | 8 3/4            | 10                | 5 1/2 | 8                | 7                      | 5 5/8 | 10               | 18                  | 5 1/2 | 8                | 19          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 14         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 18                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 11                                  | 5 1/2 | 8                | N/A                         |       |                  | 25                               | 6 1/4  | 10               | 7 1/2              | 23'-5"       |
| 24'-5"                                                                                                | 548            | 12                    | 5 3/4 | 8 3/4            | 9                 | 5 1/2 | 8                | N/A                    |       |                  | 10                  | 5 1/2 | 8                | 17          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 16                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 9                                   | 5 1/2 | 8                | N/A                         |       |                  | 23                               | 6 1/4  | 10               | 7 1/2              | 24'-5"       |
| 25'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 12         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 11                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 8                                   | 5 1/2 | 8                | N/A                         |       |                  | 10                               | 6 1/4  | 10               | 7 1/2              | 25'-5"       |
| 26'-5"                                                                                                | 548            | 10                    | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 10          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 10         | 6 5/8 | 7 7/8            | 36                                      | 35                                         | 10                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 7                                   | 5 1/2 | 8                | N/A                         |       |                  | 9                                | 6 1/4  | 10               | 7 1/2              | 26'-5"       |
| 27'-5"                                                                                                | 648            | 9                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 6                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 7          | 6 5/8 | 7 7/8            | 36                                      | 32                                         | 9                                     | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 5                                   | 5 1/2 | 8                | N/A                         |       |                  | 8                                | 6 1/4  | 10               | 7 1/2              | 27'-5"       |
| 28'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   | 5 1/2 | 8                | 7           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      | 29                                         | 8                                     | 5 3/4 | 8 3/4            | N/A                                    |       |                  | N/A                                 |       |                  | 7                           | 6 1/4 | 10               | 7 1/2                            | 28'-5" |                  |                    |              |
| 29'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      | 27                                         | 7                                     | 5 3/4 | 8 3/4            | N/A                                    |       |                  | N/A                                 |       |                  | 6                           | 6 1/4 | 10               | 7 1/2                            | 29'-5" |                  |                    |              |
| 30'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 5           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      | 24                                         | N/A                                   |       |                  | N/A                                    |       |                  | N/A                                 |       |                  | 5                           | 6 1/4 | 10               | 7 1/2                            | 30'-5" |                  |                    |              |
| 31'-5"                                                                                                | DC6            | 10                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 10         | 6 5/8 | 7 7/8            | 36                                      | 34                                         | 10                                    | 5 3/4 | 8 3/4            | 8                                      | 4 1/2 | 6                | 8                                   | 5 1/2 | 8                | N/A                         |       |                  | 9                                | 6 1/4  | 10               | 9 1/4              | 31'-5"       |



|      |                         |            |     |        |
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| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                                                  |      |       |                                             |      |       |                    |         |                       |               |                          |              |                            |                               |                            |                               |                    |        |        |        |                 |        |
|---------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|-----------------------------|------|-------|------------------------------------------------------------------|------|-------|---------------------------------------------|------|-------|--------------------|---------|-----------------------|---------------|--------------------------|--------------|----------------------------|-------------------------------|----------------------------|-------------------------------|--------------------|--------|--------|--------|-----------------|--------|
| Guide Construction                                                                    |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |       |                                             |      |       |                    |         |                       |               |                          |              |                            |                               |                            |                               |                    |        |        |        |                 |        |
| D.B.G.<br>Up To                                                                       | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie<br>Titen |      |       | Hilti KH-EZ Stainless<br>Steel                                   |      |       | Simpson Strong-Tie<br>Titen Stainless Steel |      |       | Through<br>Bolting |         | Min. Edge<br>Distance | Welded        |                          | Through Bolt |                            | Tapped Bolt                   |                            |                               | Superimposed Loads |        |        |        | D.B.G.<br>Up To |        |
|                                                                                       |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                                                         | Dia. | Embed | Max O.C.                                    | Dia. | Embed | Max O.C.           | Dia.    |                       | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size    | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness   | Vx (+) | Vy (+) | Vx (-) |                 | Vy (-) |
| 5'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4 | N/A                       |      |       | 9                     | 5/8  | 4 3/8 | 13          | 3/8  | 3 1/4 | 12                          | 3/4  | 5 1/2 | 13                                                               | 3/8  | 3 1/4 | 8                                           | 3/4  | 5 1/2 | 8                  | 3/8     | 5 3/4                 | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16               | 0      | 179    | 0      | 176             | 5'-5"  |
| 6'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 |                             |      |       | 10                                                               | 3/8  | 3 1/4 | N/A                                         | 8    | 3/8   | 5 3/4              | 36      | 36                    | 7/16" x 5/8"  | 36                       | 36           | 36                         | 36                            | 3/16                       | 0                             | 211                | 0      | 209    | 6'-5"  |                 |        |
| 7'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 3/4  | 5 1/4 | 9           | 3/8  | 3 1/4 | N/A                         |      |       | 9                                                                | 3/8  | 3 1/4 | N/A                                         | 8    | 3/8   | 5 3/4              | 36      | 36                    | 7/16" x 5/8"  | 36                       | 36           | 36                         | 36                            | 3/16                       | 0                             | 244                | 0      | 241    | 7'-5"  |                 |        |
| 8'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 8           | 3/8  | 3 1/4 | N/A                         |      |       | 11                                                               | 1/2  | 4 1/4 | N/A                                         | 8    | 3/8   | 5 3/4              | 36      | 36                    | 7/16" x 5/8"  | 36                       | 36           | 36                         | 36                            | 3/16                       | 0                             | 276                | 0      | 274    | 8'-5"  |                 |        |
| 9'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 12          | 1/2  | 4 1/4 | N/A                         |      |       | 10                                                               | 1/2  | 4 1/4 | N/A                                         | 8    | 3/8   | 5 3/4              | 36      | 36                    | 7/16" x 5/8"  | 36                       | 36           | 36                         | 36                            | 3/16                       | 0                             | 309                | 0      | 306    | 9'-5"  |                 |        |
| 11'-5"                                                                                | 1 1/8                     | 0.344 | CP0629          | 344               | 12                          | 3/8                              | 14                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 5/8  | 4 3/8 | 13          | 1/2  | 4 1/4 | N/A                         |      |       | 11                                                               | 1/2  | 4 1/4 | N/A                                         | 8    | 3/8   | 5 3/4              | 19      | 31                    | 7/16" x 5/8"  | 18                       | 13           | 6                          | 5                             | 3/16                       | 503                           | 374                | 439    | 372    | 11'-5" |                 |        |
| 12'-5"                                                                                | 1 5/16                    | 0.532 | CP0629          | DC4               | 12                          | 1/2                              | 18                              | 6                                               | 1/2  | 3 3/4 | N/A                       |      |       | N/A                   |      |       | 8           | 1/2  | 4 1/4 | N/A                         |      |       | 8                                                                | 1/2  | 4 1/4 | N/A                                         | 8    | 1/2   | 6 1/4              | 12      | 12                    | 9/16" x 3/4"  | 12                       | 11           | 12                         | 11                            | 1/4                        | 566                           | 406                | 517    | 404    | 12'-5" |                 |        |
| 13'-5"                                                                                | 1 3/8                     | 0.531 | CP0630          | 445               | 10                          | 1/2                              | 15                              | 8                                               | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 9           | 3/4  | 6 1/4 | N/A                         |      |       |                                                                  | 8    | 1/2   | 6 13/16                                     | N/A  | 8     | 1/2                | 6 13/16 | 16                    | 23            | 9/16" x 3/4"             | 22           | 15                         | 7                             | 5                          | 1/4                           | 1008               | 437    | 970    | 438    | 13'-5"          |        |
| 14'-5"                                                                                | 1 7/16                    | 0.594 | CP0630          | 445               | 8                           | 1/2                              | 12                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 1/2   | 6 13/16            | 12      | 18                    | 9/16" x 3/4"  | 15                       | 10           | 6                          | N/A                           | 1/4                        | 1291                          | 470                | 1257   | 471    | 14'-5" |                 |        |
| 15'-5"                                                                                | 1 1/2                     | 0.656 | CP0630          | 446               | 8                           | 5/8                              | 17                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 5/8   | 6 7/8              | 12      | 18                    | 11/16" x 7/8" | 21                       | 15           | 7                          | 5                             | 5/16                       | 1544                          | 503                | 1512   | 503    | 15'-5" |                 |        |
| 16'-5"                                                                                | 1 5/8                     | 0.781 | CP0630          | 446               | 8                           | 5/8                              | 15                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 5/8   | 6 7/8              | 11      | 17                    | 11/16" x 7/8" | 20                       | 14           | 7                          | 5                             | 5/16                       | 1665                          | 535                | 1638   | 536    | 16'-5" |                 |        |
| 17'-5"                                                                                | 1 7/8                     | 1.031 | CP0630          | 546               | 8                           | 5/8                              | 15                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 5/8   | 6 7/8              | 11      | 18                    | 11/16" x 7/8" | 20                       | 14           | 7                          | 5                             | 5/16                       | 1626                          | 566                | 1605   | 567    | 17'-5" |                 |        |
| 18'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 5/8   | 6 7/8              | 10      | 16                    | 11/16" x 7/8" | 18                       | 13           | 6                          | N/A                           | 5/16                       | 1761                          | 598                | 1742   | 599    | 18'-5" |                 |        |
| 19'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 12                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 5/8   | 6 7/8              | 9       | 14                    | 11/16" x 7/8" | 15                       | 10           | 5                          | N/A                           | 5/16                       | 2024                          | 631                | 2006   | 632    | 19'-5" |                 |        |
| 20'-5"                                                                                | 2 3/8                     | 1.531 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 7 1/2              | 16      | 19                    | 7/8" x 1"     | 36                       | 29           | 13                         | 9                             | 3/8                        | 1913                          | 663                | 1892   | 663    | 20'-5" |                 |        |
| 21'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 7 1/2              | 15      | 18                    | 7/8" x 1"     | 35                       | 26           | 12                         | 9                             | 3/8                        | 2036                          | 695                | 2017   | 695    | 21'-5" |                 |        |
| 22'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 7 1/2              | 14      | 16                    | 7/8" x 1"     | 32                       | 23           | 11                         | 8                             | 3/8                        | 2255                          | 727                | 2237   | 728    | 22'-5" |                 |        |
| 23'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 7 1/2              | 13      | 14                    | 7/8" x 1"     | 29                       | 20           | 10                         | 7                             | 3/8                        | 2472                          | 760                | 2455   | 760    | 23'-5" |                 |        |
| 24'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 7 1/2              | 12      | 13                    | 7/8" x 1"     | 26                       | 18           | 9                          | 6                             | 3/8                        | 2690                          | 793                | 2672   | 793    | 24'-5" |                 |        |
| 25'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 12                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 7 1/2              | 11      | 12                    | 7/8" x 1"     | 23                       | 16           | 8                          | 6                             | 3/8                        | 2907                          | 826                | 2890   | 826    | 25'-5" |                 |        |
| 26'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 12                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 9 1/4              | 10      | 11                    | 7/8" x 1"     | 21                       | 14           | 8                          | 5                             | 3/8                        | 3125                          | 858                | 3108   | 859    | 26'-5" |                 |        |
| 27'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 11                              |                                                 |      | N/A   |                           |      | N/A   |                       |      | N/A   |             |      | N/A   | N/A                         |      |       | N/A                                                              |      |       | N/A                                         | 8    | 3/4   | 9 1/4              | 9       | 11                    | 7/8" x 1"     | 19                       | 13           | 7                          | 5                             | 3/8                        | 3344                          | 891                | 3327   | 892    | 27'-5" |                 |        |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |         |        |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|-------|-------------------------------------|---------|--------|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |         |        |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt T22 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |       | Simpson Titen HD Stainless<br>Steel |         |        | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |       |                                     |         |        |                       |                 |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 27         | 3 1/2 | 4 3/4               | 36                                            |       | 29                                               | N/A      |                                          |                     | 16       | 1 7/8                                     | 3 1/4               | 18       | 2 1/2                                  | 4                   | 26       | 2 1/2                       | 4                   | 26    | 2 1/2                               | 4       | 5 3/4  | 5'-5"                 |                 |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            |       | 24                                               | N/A      |                                          |                     | 15       | 1 7/8                                     | 3 1/4               | 17       | 2 1/2                                  | 4                   | 23       | 2 1/2                       | 4                   | 24    | 2 1/2                               | 4       | 5 3/4  | 6'-5"                 |                 |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 27                                            |       | 21                                               | N/A      |                                          |                     | 14       | 1 7/8                                     | 3 1/4               | 16       | 2 1/2                                  | 4                   | 22       | 2 1/2                       | 4                   | 22    | 2 1/2                               | 4       | 5 3/4  | 7'-5"                 |                 |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 24                                            |       | 18                                               | N/A      |                                          |                     | 13       | 1 7/8                                     | 3 1/4               | 15       | 2 1/2                                  | 4                   | 20       | 2 1/2                       | 4                   | 21    | 2 1/2                               | 4       | 5 3/4  | 8'-5"                 |                 |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 21                                            |       | 16                                               | N/A      |                                          |                     | 12       | 1 7/8                                     | 3 1/4               | 14       | 2 1/2                                  | 4                   | 19       | 2 1/2                       | 4                   | 20    | 2 1/2                               | 4       | 5 3/4  | 9'-5"                 |                 |
| 11'-5"                                                                                                | 344               | N/A                   |       |                     | 11                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 36                                            |       | 29                                               | N/A      |                                          |                     | N/A      |                                           |                     | 13       | 2 1/2                                  | 4                   | 16       | 2 1/2                       | 4                   | 16    | 2 1/2                               | 4       | 5 3/4  | 11'-5"                |                 |
| 12'-5"                                                                                                | DC4               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 19                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 23         | 4 1/4 | 5 1/2               | 36                                            |       | 24                                               | 20       | 3 7/8                                    | 6                   | 9        | 2 1/2                                     | 4                   | 20       | 3 3/4                                  | 5 1/2               | 22       | 4 1/4                       | 6 3/4               | 26    | 4                                   | 6 1/4   | 5 3/4  | 12'-5"                |                 |
| 13'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            |       | 30                                               | 13       | 3 7/8                                    | 6                   |          | N/A                                       | 14                  | 3 3/4    | 5 1/2                                  | 11                  | 4 1/4    | 6 3/4                       | 7                   | 4     | 6 1/4                               | 6 13/16 | 13'-5" |                       |                 |
| 14'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 12         | 4 1/4 | 5 1/2               | 31                                            |       | 21                                               | 10       | 3 7/8                                    | 6                   |          | N/A                                       | 9                   | 3 3/4    | 5 1/2                                  | 9                   | 4 1/4    | 6 3/4                       | 7                   | 4     | 6 1/4                               | 6 13/16 | 14'-5" |                       |                 |
| 15'-5"                                                                                                | 446               | 16                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   | 13                  | 5          | 6 1/4 | 36                  |                                               | 34    | 11                                               | 5 1/8    | 7 7/8                                    |                     | N/A      | 9                                         | 4 1/2               | 6        |                                        | N/A                 | 10       | 5 1/2                       | 8 1/2               | 6 7/8 | 15'-5"                              |         |        |                       |                 |
| 16'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   | 12                  | 5          | 6 1/4 | 36                  |                                               | 30    | 10                                               | 5 1/8    | 7 7/8                                    |                     | N/A      | 8                                         | 4 1/2               | 6        |                                        | N/A                 | 10       | 5 1/2                       | 8 1/2               | 6 7/8 | 16'-5"                              |         |        |                       |                 |
| 17'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   | 12                  | 5          | 6 1/4 | 36                  |                                               | 30    | 10                                               | 5 1/8    | 7 7/8                                    |                     | N/A      | 8                                         | 4 1/2               | 6        |                                        | N/A                 | 10       | 5 1/2                       | 8 1/2               | 6 7/8 | 17'-5"                              |         |        |                       |                 |
| 18'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   | 10                  | 5          | 6 1/4 | 36                  |                                               | 26    | 9                                                | 5 1/8    | 7 7/8                                    |                     | N/A      | 7                                         | 4 1/2               | 6        |                                        | N/A                 | 9        | 5 1/2                       | 8 1/2               | 6 7/8 | 18'-5"                              |         |        |                       |                 |
| 19'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 8           | 5     | 7                   |                     | N/A   |                     |            |       |                     | 32                                            |       | 22                                               | 7        | 5 1/8                                    | 7 7/8               |          | N/A                                       |                     | N/A      |                                        | N/A                 | 7        | 5 1/2                       | 8 1/2               | 6 7/8 | 19'-5"                              |         |        |                       |                 |
| 20'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            |       | 36                                               | 16       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | N/A      | 10                                     | 5 1/2               | 8        |                             | N/A                 | 24    | 6 1/4                               | 10      | 7 1/2  | 20'-5"                |                 |
| 21'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            |       | 36                                               | 12       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | N/A      | 9                                      | 5 1/2               | 8        |                             | N/A                 | 11    | 6 1/4                               | 10      | 7 1/2  | 21'-5"                |                 |
| 22'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 10         | 6 5/8 | 7 7/8               | 36                                            |       | 36                                               | 11       | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | N/A      | 7                                      | 5 1/2               | 8        |                             | N/A                 | 10    | 6 1/4                               | 10      | 7 1/2  | 22'-5"                |                 |
| 23'-5"                                                                                                | 648               | 9                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 7          | 6 5/8 | 7 7/8               | 36                                            |       | 32                                               | 9        | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | N/A      | 5                                      | 5 1/2               | 8        |                             | N/A                 | 8     | 6 1/4                               | 10      | 7 1/2  | 23'-5"                |                 |
| 24'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            |       | 28                                               | 8        | 5 3/4                                    | 8 3/4               |          | N/A                                       |                     | N/A      |                                        | N/A                 | 7        | 6 1/4                       | 10                  | 7 1/2 | 24'-5"                              |         |        |                       |                 |
| 25'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 5           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            |       | 25                                               |          | N/A                                      |                     |          | N/A                                       |                     | N/A      |                                        | N/A                 | 5        | 6 1/4                       | 10                  | 7 1/2 | 25'-5"                              |         |        |                       |                 |
| 26'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 10         | 6 5/8 | 7 7/8               | 36                                            |       | 35                                               | 10       | 5 3/4                                    | 8 3/4               |          | 8                                         | 4 1/2               | 6        | 8                                      | 5 1/2               | 8        |                             | N/A                 | 9     | 6 1/4                               | 10      | 9 1/4  | 26'-5"                |                 |
| 27'-5"                                                                                                | DC6               | 9                     | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 8          | 6 5/8 | 7 7/8               | 36                                            |       | 32                                               | 9        | 5 3/4                                    | 8 3/4               |          | 7                                         | 4 1/2               | 6        | 7                                      | 5 1/2               | 8        |                             | N/A                 | 8     | 6 1/4                               | 10      | 9 1/4  | 27'-5"                |                 |

|      |                         |            |     |        |
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| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 70 PSF |                      |       |                 |          |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |       |       |             |       |                                                                  |                             |      |       |                                |      |       |                                             |         |               |                          |              |                       |                            |                               |                            |                               |                  |             |        |        |        |                    |  |  |  |                 |
|---------------------------------------------------------------------------------------|----------------------|-------|-----------------|----------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|-------|-------|-------------|-------|------------------------------------------------------------------|-----------------------------|------|-------|--------------------------------|------|-------|---------------------------------------------|---------|---------------|--------------------------|--------------|-----------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|-------------|--------|--------|--------|--------------------|--|--|--|-----------------|
| Guide Construction                                                                    |                      |       |                 |          |                   |                             |                                  | Filled CMU                      |                                                 |      |       |                           |      |       |                       |       |       |             |       | Steel (Wall anchors are the same diameter as assembly fasteners) |                             |      |       |                                |      |       |                                             |         |               |                          |              |                       |                            |                               |                            |                               |                  |             |        |        |        |                    |  |  |  |                 |
| D.B.G.<br>Up To                                                                       | Windlock<br>Location | Flat  | Slip            | Windlock | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |       |                                                                  | Simpson Strong-Tie<br>Titan |      |       | Hilti KH-EZ Stainless<br>Steel |      |       | Simpson Strong-Tie<br>Titan Stainless Steel |         |               | Through<br>Bolting       |              | Min. Edge<br>Distance | Welded                     |                               | Through Bolt               |                               |                  | Tapped Bolt |        |        |        | Superimposed Loads |  |  |  | D.B.G.<br>Up To |
|                                                                                       |                      |       |                 |          |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia.  | Embed                                                            | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia. | Embed | Max O.C.                                    | Dia.    | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size    |                       | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Min<br>Thickness | Vx (+)      | Vy (+) | Vx (-) | Vy (-) |                    |  |  |  |                 |
| 5'-5"                                                                                 | N/A                  |       | N/A             | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 5/8  | 4 1/2 | N/A                       |      | 8     | 5/8                   | 4 3/8 | 12    | 3/8         | 3 1/4 | N/A                                                              |                             | 12   | 3/8   | 3 1/4                          | N/A  |       | 8                                           | 3/8     | 5 3/4         | 36                       | 36           | 7/16" x 5/8"          | 36                         | 36                            | 36                         | 36                            | 3/16             | 0           | 193    | 0      | 190    | 5'-5"              |  |  |  |                 |
| 6'-5"                                                                                 | N/A                  |       | N/A             | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      | 8     | 3/4                   | 5 1/4 | 10    | 3/8         | 3 1/4 | N/A                                                              |                             | 10   | 3/8   | 3 1/4                          | N/A  |       | 8                                           | 3/8     | 5 3/4         | 36                       | 36           | 7/16" x 5/8"          | 36                         | 36                            | 36                         | 36                            | 3/16             | 0           | 228    | 0      | 225    | 6'-5"              |  |  |  |                 |
| 7'-5"                                                                                 | N/A                  |       | N/A             | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 8     | 3/8         | 3 1/4 | N/A                                                              |                             | 12   | 1/2   | 4 1/4                          | N/A  |       | 8                                           | 3/8     | 5 3/4         | 36                       | 36           | 7/16" x 5/8"          | 36                         | 36                            | 36                         | 36                            | 3/16             | 0           | 263    | 0      | 260    | 7'-5"              |  |  |  |                 |
| 8'-5"                                                                                 | N/A                  |       | N/A             | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 13    | 1/2         | 4 1/4 | N/A                                                              |                             | 10   | 1/2   | 4 1/4                          | N/A  |       | 8                                           | 3/8     | 5 3/4         | 36                       | 36           | 7/16" x 5/8"          | 36                         | 36                            | 36                         | 35                            | 3/16             | 0           | 298    | 0      | 295    | 8'-5"              |  |  |  |                 |
| 9'-5"                                                                                 | N/A                  |       | N/A             | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 11                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 11    | 1/2         | 4 1/4 | N/A                                                              |                             | 9    | 1/2   | 4 1/4                          | N/A  |       | 8                                           | 3/8     | 5 3/4         | 36                       | 36           | 7/16" x 5/8"          | 36                         | 36                            | 31                         | 3/16                          | 0                | 333         | 0      | 330    | 9'-5"  |                    |  |  |  |                 |
| 11'-5"                                                                                | 1 1/8                | 0.344 | CP0629          | 344      |                   | 12                          | 3/8                              | 11                              | 11                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 9     | 1/2         | 4 1/4 | N/A                                                              |                             | 9    | 1/2   | 4 1/4                          | N/A  |       | 8                                           | 3/8     | 5 3/4         | 14                       | 24           | 7/16" x 5/8"          | 13                         | 9                             | 5                          | N/A                           | 3/16             | 672         | 403    | 607    | 401    | 11'-5"             |  |  |  |                 |
| 12'-5"                                                                                | 1 1/4                | 0.406 | CP0630          | 445      |                   | 10                          | 1/2                              | 16                              | 8                                               | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 9     | 3/4         | 6 1/4 | N/A                                                              |                             | N/A  |       | N/A                            |      | 8     | 1/2                                         | 6 13/16 | 15            | 22                       | 9/16" x 3/4" | 21                    | 15                         | 7                             | 5                          | 1/4                           | 1024             | 436         | 976    | 437    | 12'-5" |                    |  |  |  |                 |
| 13'-5"                                                                                | 1 5/16               | 0.469 | CP0630          | 445      |                   | 8                           | 1/2                              | 12                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 1/2   | 6 13/16                        | 12   | 17    | 9/16" x 3/4"                                | 14      | 10            | 5                        | N/A          | 1/4                   | 1341                       | 472                           | 1298                       | 472                           | 13'-5"           |             |        |        |        |                    |  |  |  |                 |
| 14'-5"                                                                                | 1 7/16               | 0.594 | CP0630          | 446      |                   | 8                           | 5/8                              | 18                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 5/8   | 6 7/8                          | 12   | 19    | 11/16" x 7/8"                               | 22      | 19            | 16                       | 8            | 5                     | 5/16                       | 1473                          | 506                        | 1437                          | 507              | 14'-5"      |        |        |        |                    |  |  |  |                 |
| 15'-5"                                                                                | 1 1/2                | 0.656 | CP0630 & CP0647 | 546      |                   | 6                           | 5/8                              | 15                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 5/8   | 6 7/8                          | 10   | 16    | 11/16" x 7/8"                               | 19      | 13            | 6                        | 5            | 5/16                  | 1735                       | 541                           | 1702                       | 542                           | 15'-5"           |             |        |        |        |                    |  |  |  |                 |
| 16'-5"                                                                                | 1 5/8                | 0.781 | CP0630 & CP0647 | 546      |                   | 6                           | 5/8                              | 14                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 5/8   | 6 7/8                          | 10   | 15    | 11/16" x 7/8"                               | 17      | 12            | 6                        | N/A          | 5/16                  | 1857                       | 576                           | 1828                       | 577                           | 16'-5"           |             |        |        |        |                    |  |  |  |                 |
| 17'-5"                                                                                | 1 3/4                | 0.906 | CP0630 & CP0647 | 546      |                   | 6                           | 5/8                              | 13                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 5/8   | 6 7/8                          | 9    | 14    | 11/16" x 7/8"                               | 15      | 10            | 6                        | N/A          | 5/16                  | 1981                       | 610                           | 1956                       | 612                           | 17'-5"           |             |        |        |        |                    |  |  |  |                 |
| 18'-5"                                                                                | 1 7/8                | 1.031 | CP0630 & CP0647 | 548      |                   | 6                           | 3/4                              | 18                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 15   | 17    | 7/8" x 1"                                   | 34      | 25            | 12                       | 8            | 3/8                   | 2116                       | 646                           | 2084                       | 646                           | 18'-5"           |             |        |        |        |                    |  |  |  |                 |
| 19'-5"                                                                                | 2 1/8                | 1.281 | CP0630 & CP0647 | 548      |                   | 6                           | 3/4                              | 17                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 15   | 17    | 7/8" x 1"                                   | 34      | 26            | 12                       | 8            | 3/8                   | 2091                       | 680                           | 2064                       | 680                           | 19'-5"           |             |        |        |        |                    |  |  |  |                 |
| 20'-5"                                                                                | 2 1/4                | 1.406 | CP0630 & CP0647 | 548      |                   | 6                           | 3/4                              | 16                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 14   | 16    | 7/8" x 1"                                   | 32      | 24            | 11                       | 8            | 3/8                   | 2219                       | 714                           | 2195                       | 715                           | 20'-5"           |             |        |        |        |                    |  |  |  |                 |
| 21'-5"                                                                                | 2 1/2                | 1.656 | CP0630 & CP0647 | 548      |                   | 6                           | 3/4                              | 15                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 14   | 16    | 7/8" x 1"                                   | 32      | 23            | 11                       | 8            | 3/8                   | 2229                       | 748                           | 2210                       | 748                           | 21'-5"           |             |        |        |        |                    |  |  |  |                 |
| 22'-5"                                                                                | 2 1/2                | 1.656 | CP0630 & CP0647 | 648      |                   | 6                           | 3/4                              | 14                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 13   | 14    | 7/8" x 1"                                   | 29      | 20            | 10                       | 7            | 3/8                   | 2462                       | 783                           | 2442                       | 784                           | 22'-5"           |             |        |        |        |                    |  |  |  |                 |
| 23'-5"                                                                                | 2 1/2                | 1.656 | CP0630 & CP0647 | 648      |                   | 6                           | 3/4                              | 13                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 12   | 13    | 7/8" x 1"                                   | 26      | 18            | 9                        | 6            | 3/8                   | 2693                       | 819                           | 2674                       | 819                           | 23'-5"           |             |        |        |        |                    |  |  |  |                 |
| 24'-5"                                                                                | 2 1/2                | 1.656 | CP0630 & CP0647 | 648      |                   | 6                           | 3/4                              | 12                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 7 1/2                          | 11   | 12    | 7/8" x 1"                                   | 23      | 16            | 8                        | 6            | 3/8                   | 2925                       | 854                           | 2906                       | 855                           | 24'-5"           |             |        |        |        |                    |  |  |  |                 |
| 25'-5"                                                                                | 2 1/2                | 1.656 | CP0630 & CP0647 | DC6      |                   | 5                           | 3/4                              | 11                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A                                                              |                             | 8    | 3/4   | 9 1/4                          | 10   | 11    | 7/8" x 1"                                   | 21      | 14            | 8                        | 5            | 3/8                   | 3157                       | 889                           | 3138                       | 890                           | 25'-5"           |             |        |        |        |                    |  |  |  |                 |

| CP0001/CP0651 - 0.0296 0.022 Minimum Thickness Galvanized or Stainless Steel - 70 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |        |                       |                 |       |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|--------|-----------------------|-----------------|-------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |        |                       |                 |       |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt T22 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |        | Min. Edge<br>Distance | D.B.G.<br>Up To |       |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. |                                     |       |        |                       |                 |       |        |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 25         | 3 1/2 | 4 3/4               | 34                                            |                                                  | 27                                       | N/A   |                     |                                           | 15    | 1 7/8               | 3 1/4                                  | 18    | 2 1/2               | 4                           | 25    | 2 1/2               | 4                                   | 25    | 2 1/2  | 4                     | 5 3/4           | 5'-5" |        |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 29                                            |                                                  | 22                                       | N/A   |                     |                                           | 14    | 1 7/8               | 3 1/4                                  | 16    | 2 1/2               | 4                           | 23    | 2 1/2               | 4                                   | 23    | 2 1/2  | 4                     | 5 3/4           | 6'-5" |        |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 25                                            |                                                  | 19                                       | N/A   |                     |                                           | 13    | 1 7/8               | 3 1/4                                  | 15    | 2 1/2               | 4                           | 21    | 2 1/2               | 4                                   | 21    | 2 1/2  | 4                     | 5 3/4           | 7'-5" |        |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 14                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 22                                            |                                                  | 17                                       | N/A   |                     |                                           | 12    | 1 7/8               | 3 1/4                                  | 14    | 2 1/2               | 4                           | 20    | 2 1/2               | 4                                   | 20    | 2 1/2  | 4                     | 5 3/4           | 8'-5" |        |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 20                                            |                                                  | 15                                       | N/A   |                     |                                           |       |                     | 13                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 19                                  | 2 1/2 | 4      | 5 3/4                 | 9'-5"           |       |        |
| 11'-5"                                                                                                | 344               | N/A                   |       |                     | 5                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 5                   | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 11         | 3 1/2 | 4 3/4               | 29                                            |                                                  | 20                                       | N/A   |                     |                                           |       |                     | 5                                      | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 15                                  | 3 1/4 | 5      | 5 3/4                 | 11'-5"          |       |        |
| 12'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 30                                       | 12    | 3 7/8               | 6                                         | N/A   |                     | 13                                     | 3 3/4 | 5 1/2               | 10                          | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4  | 6 13/16               | 12'-5"          |       |        |
| 13'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 6                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 8                   | 4     | 6                   | 11         | 4 1/4 | 5 1/2               | 30                                            |                                                  | 20                                       | 9     | 3 7/8               | 6                                         | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 8                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4  | 6 13/16               | 13'-5"          |       |        |
| 14'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     |       | N/A                 | 16         | 5     | 6 1/4               | 36                                            |                                                  | 36                                       | 15    | 5 1/8               | 7 7/8                                     | N/A   |                     | 9                                      | 4 1/2 | 6                   |                             | N/A   | 10                  | 5 1/2                               | 8 1/2 | 6 7/8  | 14'-5"                |                 |       |        |
| 15'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     |       | N/A                 | 10         | 5     | 6 1/4               | 36                                            |                                                  | 29                                       | 10    | 5 1/8               | 7 7/8                                     | N/A   |                     | 7                                      | 4 1/2 | 6                   |                             | N/A   | 9                   | 5 1/2                               | 8 1/2 | 6 7/8  | 15'-5"                |                 |       |        |
| 16'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     |       | N/A                 | 8          | 5     | 6 1/4               | 36                                            |                                                  | 25                                       | 8     | 5 1/8               | 7 7/8                                     | N/A   |                     | 6                                      | 4 1/2 | 6                   |                             | N/A   | 8                   | 5 1/2                               | 8 1/2 | 6 7/8  | 16'-5"                |                 |       |        |
| 17'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   |                        | N/A   |                     | 5                   | 4 1/2 | 6                   | 8           | 5     | 7                   |                     |       | N/A                 | 5          | 5     | 6 1/4               | 33                                            |                                                  | 23                                       | 7     | 5 1/8               | 7 7/8                                     | N/A   |                     | 5                                      | 4 1/2 | 6                   |                             | N/A   | 7                   | 5 1/2                               | 8 1/2 | 6 7/8  | 17'-5"                |                 |       |        |
| 18'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 13         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 12    | 5 3/4               | 8 3/4                                     | N/A   |                     | 8                                      | 5 1/2 | 8                   |                             | N/A   | 11                  | 6 1/4                               | 10    | 7 1/2  | 18'-5"                |                 |       |        |
| 19'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 13         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 12    | 5 3/4               | 8 3/4                                     | N/A   |                     | 8                                      | 5 1/2 | 8                   |                             | N/A   | 11                  | 6 1/4                               | 10    | 7 1/2  | 19'-5"                |                 |       |        |
| 20'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 11         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 11    | 5 3/4               | 8 3/4                                     | N/A   |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   | 10                  | 6 1/4                               | 10    | 7 1/2  | 20'-5"                |                 |       |        |
| 21'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     |       | N/A                 | 10         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 11    | 5 3/4               | 8 3/4                                     | N/A   |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   | 10                  | 6 1/4                               | 10    | 7 1/2  | 21'-5"                |                 |       |        |
| 22'-5"                                                                                                | 648               | 9                     | 5 3/4 | 8 3/4               | N/A               |       |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     |       | N/A                 | 7          | 6 5/8 | 7 7/8               | 36                                            |                                                  | 32                                       | 9     | 5 3/4               | 8 3/4                                     | N/A   |                     | 5                                      | 5 1/2 | 8                   |                             | N/A   | 8                   | 6 1/4                               | 10    | 7 1/2  | 22'-5"                |                 |       |        |
| 23'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               | N/A               |       |                     |                        | N/A   |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     |       | N/A                 |            |       |                     | 36                                            |                                                  | 28                                       | 8     | 5 3/4               | 8 3/4                                     | N/A   |                     | N/A                                    |       |                     | N/A                         | 7     | 6 1/4               | 10                                  | 7 1/2 | 23'-5" |                       |                 |       |        |
| 24'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     |                        | N/A   |                     | 5                   | 6 1/4 | 8 1/8               |             | 6 1/4 | 8 1/8               |                     |       | N/A                 |            |       |                     | 36                                            |                                                  | 25                                       |       |                     |                                           | N/A   |                     | N/A                                    |       |                     | N/A                         | 5     | 6 1/4               | 10                                  | 7 1/2 | 24'-5" |                       |                 |       |        |
| 25'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     |       | N/A                 | 10         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 35                                       | 10    | 5 3/4               | 8 3/4                                     |       | 8                   | 4 1/2                                  | 6     |                     | 8                           | 5 1/2 | 8                   |                                     | N/A   | 9      | 6 1/4                 | 10              | 9 1/4 | 25'-5" |

|      |                         |            |     |        |
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| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |       |       |             |       |       |                             |      |       |                                |         |       |                                             |               |                                                                  |                          |           |                       |                            |                               |                            |                               |                  |        |        |        |                    |     |       |  |                 |  |
|---------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|-------|-------|-------------|-------|-------|-----------------------------|------|-------|--------------------------------|---------|-------|---------------------------------------------|---------------|------------------------------------------------------------------|--------------------------|-----------|-----------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|--------|--------|--------|--------------------|-----|-------|--|-----------------|--|
| Guide Construction                                                                    |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |       |       |             |       |       |                             |      |       |                                |         |       |                                             |               | Steel (Wall anchors are the same diameter as assembly fasteners) |                          |           |                       |                            |                               |                            |                               |                  |        |        |        |                    |     |       |  |                 |  |
| D.B.G.<br>Up To                                                                       | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |       |       | Simpson Strong-Tie<br>Titen |      |       | Hilti KH-EZ Stainless<br>Steel |         |       | Simpson Strong-Tie<br>Titen Stainless Steel |               |                                                                  | Through<br>Bolting       |           | Min. Edge<br>Distance | Welded                     |                               | Through Bolt               |                               | Tapped Bolt      |        |        |        | Superimposed Loads |     |       |  | D.B.G.<br>Up To |  |
|                                                                                       |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia.    | Embed | Max O.C.                                    | Dia.          | Slot Max O.C.                                                    | Heel and Toe<br>Max O.C. | Slot Size |                       | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+) | Vy (+) | Vx (-) | Vy (-)             |     |       |  |                 |  |
| 5'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      | 8     | 3/4                   | 5 1/4 | 10    | 3/8         | 3 1/4 | N/A   |                             |      | 10    | 3/8                            | 3 1/4   | N/A   |                                             | 8             | 3/8                                                              | 5 3/4                    | 36        | 36                    | 7/16" x 5/8"               | 36                            | 36                         | 36                            | 36               | 3/16   | 0      | 220    | 0                  | 217 | 5'-5" |  |                 |  |
| 6'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 15                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 9     | 3/8         | 3 1/4 | N/A   |                             |      | 12    | 1/2                            | 4 1/4   | N/A   |                                             | 8             | 3/8                                                              | 5 3/4                    | 36        | 36                    | 7/16" x 5/8"               | 36                            | 36                         | 36                            | 36               | 3/16   | 0      | 260    | 0                  | 257 | 6'-5" |  |                 |  |
| 7'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 13    | 1/2         | 4 1/4 | N/A   |                             |      | 10    | 1/2                            | 4 1/4   | N/A   |                                             | 8             | 3/8                                                              | 5 3/4                    | 36        | 36                    | 7/16" x 5/8"               | 36                            | 36                         | 36                            | 35               | 3/16   | 0      | 300    | 0                  | 297 | 7'-5" |  |                 |  |
| 8'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 11                                              | 3/4  | 5 1/2 | N/A                       |      | N/A   |                       |       | 11    | 1/2         | 4 1/4 | N/A   |                             |      | 9     | 1/2                            | 4 1/4   | N/A   |                                             | 8             | 3/8                                                              | 5 3/4                    | 36        | 36                    | 7/16" x 5/8"               | 36                            | 36                         | 36                            | 31               | 3/16   | 0      | 340    | 0                  | 337 | 8'-5" |  |                 |  |
| 11'-5"                                                                                | 1 1/8                     | 0.281 | CP0630          | 445               | 8                           | 1/2                              | 13                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 1/2                            | 6 13/16 | 12    | 17                                          | 9/16" x 3/4"  | 15                                                               | 10                       | 6         | N/A                   | 1/4                        | 1292                          | 460                        | 1226                          | 460              | 11'-5" |        |        |                    |     |       |  |                 |  |
| 12'-5"                                                                                | 1 3/16                    | 0.344 | CP0630          | 446               | 8                           | 5/8                              | 17                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 5/8                            | 6 7/8   | 11    | 17                                          | 11/16" x 7/8" | 20                                                               | 14                       | 7         | 5                     | 5/16                       | 1629                          | 500                        | 1572                          | 501              | 12'-5" |        |        |                    |     |       |  |                 |  |
| 13'-5"                                                                                | 1 1/4                     | 0.406 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 5/8                            | 6 7/8   | 9     | 14                                          | 11/16" x 7/8" | 16                                                               | 11                       | 6         | N/A                   | 5/16                       | 1933                          | 540                        | 1882                          | 541              | 13'-5" |        |        |                    |     |       |  |                 |  |
| 14'-5"                                                                                | 1 3/8                     | 0.531 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 5/8                            | 6 7/8   | 9     | 14                                          | 11/16" x 7/8" | 15                                                               | 10                       | 6         | N/A                   | 5/16                       | 2007                          | 580                        | 1964                          | 581              | 14'-5" |        |        |                    |     |       |  |                 |  |
| 15'-5"                                                                                | 1 7/16                    | 0.594 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 14    | 15                                          | 7/8" x 1"     | 31                                                               | 23                       | 11        | 8                     | 3/8                        | 2295                          | 621                        | 2239                          | 621              | 15'-5" |        |        |                    |     |       |  |                 |  |
| 16'-5"                                                                                | 1 1/2                     | 0.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 12    | 14                                          | 7/8" x 1"     | 28                                                               | 20                       | 10        | 7                     | 3/8                        | 2543                          | 662                        | 2492                          | 662              | 16'-5" |        |        |                    |     |       |  |                 |  |
| 17'-5"                                                                                | 1 5/8                     | 0.781 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 12    | 13                                          | 7/8" x 1"     | 27                                                               | 19                       | 9         | 7                     | 3/8                        | 2629                          | 701                        | 2584                          | 701              | 17'-5" |        |        |                    |     |       |  |                 |  |
| 18'-5"                                                                                | 1 3/4                     | 0.906 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 11    | 13                                          | 7/8" x 1"     | 25                                                               | 18                       | 9         | 6                     | 3/8                        | 2729                          | 740                        | 2689                          | 741              | 18'-5" |        |        |                    |     |       |  |                 |  |
| 19'-5"                                                                                | 1 7/8                     | 1.031 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 11    | 12                                          | 7/8" x 1"     | 24                                                               | 17                       | 9         | 6                     | 3/8                        | 2835                          | 780                        | 2799                          | 780              | 19'-5" |        |        |                    |     |       |  |                 |  |
| 20'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 11    | 12                                          | 7/8" x 1"     | 23                                                               | 16                       | 8         | 6                     | 3/8                        | 2945                          | 819                        | 2913                          | 819              | 20'-5" |        |        |                    |     |       |  |                 |  |
| 21'-5"                                                                                | 2 1/4                     | 1.406 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 11    | 12                                          | 7/8" x 1"     | 23                                                               | 16                       | 8         | 6                     | 3/8                        | 2890                          | 857                        | 2864                          | 858              | 21'-5" |        |        |                    |     |       |  |                 |  |
| 22'-5"                                                                                | 2 3/8                     | 1.531 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 12                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 7 1/2   | 10    | 12                                          | 7/8" x 1"     | 22                                                               | 15                       | 8         | 6                     | 3/8                        | 3013                          | 896                        | 2990                          | 897              | 22'-5" |        |        |                    |     |       |  |                 |  |
| 23'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 11                              | N/A                                             |      |       | N/A                       |      | N/A   |                       |       | N/A   |             |       | N/A   |                             |      | 8     | 3/4                            | 9 1/4   | 10    | 11                                          | 7/8" x 1"     | 21                                                               | 14                       | 8         | 5                     | 3/8                        | 3135                          | 936                        | 3114                          | 937              | 23'-5" |        |        |                    |     |       |  |                 |  |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |  |  |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--------|--|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |  |  |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt T22 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |        |  |  |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |        |  |  |  |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 22         | 3 1/2 | 4 3/4               | 30                                            |                                                  |                                          |       | N/A                 |                                           | 14    | 1 7/8               | 3 1/4                                  | 16    | 2 1/2               | 4                           | 23    | 2 1/2               | 4                                   | 23    | 2 1/2               | 4                     | 5 3/4           | 5'-5"  |  |  |  |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 19         | 3 1/2 | 4 3/4               | 25                                            |                                                  |                                          |       | N/A                 |                                           | 13    | 1 7/8               | 3 1/4                                  | 15    | 2 1/2               | 4                           | 21    | 2 1/2               | 4                                   | 21    | 2 1/2               | 4                     | 5 3/4           | 6'-5"  |  |  |  |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 22                                            |                                                  |                                          |       | N/A                 |                                           | 12    | 1 7/8               | 3 1/4                                  | 14    | 2 1/2               | 4                           | 20    | 2 1/2               | 4                                   | 20    | 2 1/2               | 4                     | 5 3/4           | 7'-5"  |  |  |  |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 19                                            |                                                  |                                          |       | N/A                 |                                           |       | 13                  | 2 1/2                                  | 4     | 5                   | 2 1/2                       | 4     | 19                  | 3 1/4                               | 5     | 5 3/4               | 8'-5"                 |                 |        |  |  |  |
| 11'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 6                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 8                   | 4     | 6                   | 10         | 4 1/4 | 5 1/2               | 32                                            |                                                  | 22                                       | 9     | 3 7/8               | 6                                         | N/A   | 9                   | 3 3/4                                  | 5 1/2 | 8                   | 4 1/4                       | 6 3/4 | 7                   | 4                                   | 6 1/4 | 6 13/16             | 11'-5"                |                 |        |  |  |  |
| 12'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   | N/A                 |       |                     | 11         | 5     | 6 1/4               | 36                                            |                                                  | 32                                       | 10    | 5 1/8               | 7 7/8                                     | N/A   | 8                   | 4 1/2                                  | 6     | N/A                 |                             |       | 10                  | 5 1/2                               | 8 1/2 | 6 7/8               | 12'-5"                |                 |        |  |  |  |
| 13'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 8           | 5     | 7                   | N/A                 |       |                     | 6          | 5     | 6 1/4               | 36                                            |                                                  | 25                                       | 8     | 5 1/8               | 7 7/8                                     | N/A   | 5                   | 4 1/2                                  | 6     | N/A                 |                             |       | 8                   | 5 1/2                               | 8 1/2 | 6 7/8               | 13'-5"                |                 |        |  |  |  |
| 14'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   | N/A                    |       |                     | N/A                 |       |                     | 8           | 5     | 7                   | N/A                 |       |                     | 5          | 5     | 6 1/4               | 34                                            |                                                  | 23                                       | 7     | 5 1/8               | 7 7/8                                     | N/A   | 5                   | 3 3/4                                  | 5 1/2 | N/A                 |                             |       | 7                   | 5 1/2                               | 8 1/2 | 6 7/8               | 14'-5"                |                 |        |  |  |  |
| 15'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               | N/A                 |       |                     | 10         | 6 5/8 | 7 7/8               | 36                                            |                                                  | 36                                       | 11    | 5 3/4               | 8 3/4                                     | N/A   | 7                   | 5 1/2                                  | 8     | N/A                 |                             |       | 10                  | 6 1/4                               | 10    | 7 1/2               | 15'-5"                |                 |        |  |  |  |
| 16'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 6          | 6 5/8 | 7 7/8               | 36                                            |                                                  | 34                                       | 9     | 5 3/4               | 8 3/4                                     | N/A   | 5                   | 5 1/2                                  | 8     | N/A                 |                             |       | 8                   | 6 1/4                               | 10    | 7 1/2               | 16'-5"                |                 |        |  |  |  |
| 17'-5"                                                                                                | 548               | 8                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 5          | 6 5/8 | 7 7/8               | 36                                            |                                                  | 32                                       | 9     | 5 3/4               | 8 3/4                                     | N/A   | N/A                 |                                        |       | N/A                 |                             |       | 7                   | 6 1/4                               | 10    | 7 1/2               | 17'-5"                |                 |        |  |  |  |
| 18'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            |                                                  | 30                                       | 8     | 5 3/4               | 8 3/4                                     | N/A   | N/A                 |                                        |       | N/A                 |                             |       | 7                   | 6 1/4                               | 10    | 7 1/2               | 18'-5"                |                 |        |  |  |  |
| 19'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 6           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            |                                                  | 28                                       | 7     | 5 3/4               | 8 3/4                                     | N/A   | N/A                 |                                        |       | N/A                 |                             |       | 6                   | 6 1/4                               | 10    | 7 1/2               | 19'-5"                |                 |        |  |  |  |
| 20'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            |                                                  | 26                                       | N/A   |                     |                                           | N/A   |                     |                                        | N/A   |                     |                             | 5     | 6 1/4               | 10                                  | 7 1/2 | 20'-5"              |                       |                 |        |  |  |  |
| 21'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            |                                                  | 26                                       | N/A   |                     |                                           | N/A   |                     |                                        | N/A   |                     |                             | 5     | 6 1/4               | 10                                  | 7 1/2 | 21'-5"              |                       |                 |        |  |  |  |
| 22'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | N/A         |       |                     | N/A                 |       |                     | N/A        |       |                     | 36                                            |                                                  | 24                                       | N/A   |                     |                                           | N/A   |                     |                                        | N/A   |                     |                             | N/A   |                     |                                     | 7     | 7 1/2               | 22'-5"                |                 |        |  |  |  |
| 23'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   | N/A                    |       |                     | 8                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 10         | 6 5/8 | 7 7/8               | 35                                            |                                                  | 35                                       | 10    | 5 3/4               | 8 3/4                                     | 8     | 4 1/2               | 6                                      | 8     | 5 1/2               | 8                           | N/A   |                     |                                     | 9     | 6 1/4               | 10                    | 9 1/4           | 23'-5" |  |  |  |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 90 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |        |       |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|-------|-------------------------------------|--------|-------|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |        |       |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt TZ2 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |       | Simpson Titen HD Stainless<br>Steel |        |       | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |       |                                     |        |       |                       |                 |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 27                                            | 21    |                                                  | N/A      |                                          |                     | 14       | 1 7/8                                     | 3 1/4               | 15       | 2 1/2                                  | 4                   | 22       | 2 1/2                       | 4                   | 22    | 2 1/2                               | 4      | 5 3/4 | 5'-5"                 |                 |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 14                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 22                                            | 17    |                                                  | N/A      |                                          |                     | 12       | 1 7/8                                     | 3 1/4               | 14       | 2 1/2                                  | 4                   | 20       | 2 1/2                       | 4                   | 5 3/4 | 6'-5"                               |        |       |                       |                 |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 19                                            | 15    |                                                  | N/A      |                                          |                     | N/A      |                                           | 13                  | 2 1/2    | 4                                      | 5                   | 2 1/2    | 4                           | 19                  | 3 1/4 | 5                                   | 5 3/4  | 7'-5" |                       |                 |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 10                | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 13                  | 2 1/2 | 4                   | 16          | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 12         | 3 1/2 | 4 3/4               | 17                                            | 13    |                                                  | N/A      |                                          |                     | N/A      |                                           | 12                  | 2 1/2    | 4                                      | 5                   | 2 1/2    | 4                           | 18                  | 3 1/4 | 5                                   | 5 3/4  | 8'-5" |                       |                 |
| 11'-5"                                                                                                | 446               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   | N/A                 |       | 10                  | 5          | 6 1/4 | 36                  | 32                                            |       | 9                                                | 5 1/8    | 7 7/8                                    | N/A                 |          | 7                                         | 4 1/2               | 6        | N/A                                    |                     |          | 9                           | 5 1/2               | 8 1/2 | 6 7/8                               | 11'-5" |       |                       |                 |
| 12'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       | 8                   | 6 5/8      | 7 7/8 | 36                  | 36                                            |       | 10                                               | 5 3/4    | 8 3/4                                    | N/A                 |          | 6                                         | 5 1/2               | 8        | N/A                                    |                     |          | 9                           | 6 1/4               | 10    | 7 1/2                               | 12'-5" |       |                       |                 |
| 13'-5"                                                                                                | 548               | 8                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       | N/A                 |            |       | 36                  | 33                                            |       | 8                                                | 5 3/4    | 8 3/4                                    | N/A                 |          | N/A                                       |                     |          | N/A                                    |                     |          | 7                           | 6 1/4               | 10    | 7 1/2                               | 13'-5" |       |                       |                 |
| 14'-5"                                                                                                | 548               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 6 1/4 | 8 1/8               | N/A         |       |                     | N/A                 |       | N/A                 |            |       | 36                  | 28                                            |       | 7                                                | 5 3/4    | 8 3/4                                    | N/A                 |          | N/A                                       |                     |          | N/A                                    |                     |          | 5                           | 6 1/4               | 10    | 7 1/2                               | 14'-5" |       |                       |                 |
| 15'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   | N/A                    |       |                     | 9                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       | 10                  |            | 6 5/8 | 7 7/8               | 36                                            | 36    |                                                  | 10       | 5 3/4                                    | 8 3/4               | 8        | 4 1/2                                     | 6                   | 8        | 5 1/2                                  | 8                   | N/A      |                             |                     | 9     | 6 1/4                               | 10     | 9 1/4 | 15'-5"                |                 |
| 16'-5"                                                                                                | DC6               | 9                     | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       | 8                   |            | 6 5/8 | 7 7/8               | 36                                            | 34    |                                                  | 9        | 5 3/4                                    | 8 3/4               | 7        | 4 1/2                                     | 6                   | 7        | 5 1/2                                  | 8                   | N/A      |                             |                     | 8     | 6 1/4                               | 10     | 9 1/4 | 16'-5"                |                 |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 100 PSF |                           |      |          |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |      |       |             |       |       |                             |      |       |                                |       |       |                                                                  |      |               |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |                    |   |     |       |                 |
|----------------------------------------------------------------------------------------|---------------------------|------|----------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|------|-------|-------------|-------|-------|-----------------------------|------|-------|--------------------------------|-------|-------|------------------------------------------------------------------|------|---------------|--------------------------|-----------|-----------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|-------------|--------|--------|--------------------|---|-----|-------|-----------------|
| Guide Construction                                                                     |                           |      |          |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |      |       |             |       |       |                             |      |       |                                |       |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |               |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |                    |   |     |       |                 |
| D.B.G.<br>Up To                                                                        | Windlock Flat<br>Location | Slip | Windlock | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt TZ2<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |       |       | Simpson Strong-Tie<br>Titen |      |       | Hilti KH-EZ Stainless<br>Steel |       |       | Simpson Strong-Tie<br>Titen Stainless Steel                      |      |               | Through<br>Bolting       |           | Min. Edge<br>Distance | Welded                     |                               | Through Bolt               |                               |                  | Tapped Bolt |        |        | Superimposed Loads |   |     |       | D.B.G.<br>Up To |
|                                                                                        |                           |      |          |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia.  | Embed | Max O.C.                                                         | Dia. | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size |                       | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+)      | Vy (+) | Vx (-) | Vy (-)             |   |     |       |                 |
| 5'-5"                                                                                  | N/A                       | N/A  | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2 |                           | N/A  |       | N/A                   |      | 8     | 3/8         | 3 1/4 |       | N/A                         |      | 11    | 1/2                            | 4 1/4 |       | N/A                                                              |      | 8             | 3/8                      | 5 3/4     | 36                    | 36                         | 7/16" x 5/8"                  | 36                         | 36                            | 36               | 36          | 3/16   | 0      | 275                | 0 | 271 | 5'-5" |                 |
| 6'-5"                                                                                  | N/A                       | N/A  | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/4  | 5 1/2 |                           | N/A  |       | N/A                   |      | 12    | 1/2         | 4 1/4 |       | N/A                         |      | 9     | 1/2                            | 4 1/4 |       | N/A                                                              |      | 8             | 3/8                      | 5 3/4     | 36                    | 36                         | 7/16" x 5/8"                  | 36                         | 36                            | 36               | 32          | 3/16   | 0      | 325                | 0 | 321 | 6'-5" |                 |
| 7'-5"                                                                                  | N/A                       | N/A  | N/A      | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/4  | 5 1/2 |                           | N/A  |       | N/A                   |      | 9     | 1/2         | 4 1/4 |       | N/A                         |      | 8     | 1/2                            | 4 1/4 |       | N/A                                                              |      | 8             | 3/8                      | 5 3/4     | 36                    | 36                         | 7/16" x 5/8"                  | 36                         | 36                            | 34               | 28          | 3/16   | 0      | 375                | 0 | 371 | 7'-5" |                 |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 100 PSF - Continued    |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |   |                                     |       |   |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|---|-------------------------------------|-------|---|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |   |                                     |       |   |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt TZ2 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |   | Simpson Titen HD Stainless<br>Steel |       |   | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |   |                                     |       |   |                       |                 |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 24                                            |       | 18                                               |          | N/A                                      |                     |          | 13                                        | 1 7/8               | 3 1/4    | 15                                     | 2 1/2               | 4        | 20                          | 2 1/2               | 4 | 21                                  | 2 1/2 | 4 | 5 3/4                 | 5'-5"           |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 20                                            |       | 16                                               |          | N/A                                      |                     |          |                                           | N/A                 |          | 13                                     | 2 1/2               | 4        | 5                           | 2 1/2               | 4 | 19                                  | 2 1/2 | 4 | 5 3/4                 | 6'-5"           |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 11                | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 13                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 17                                            |       | 13                                               |          | N/A                                      |                     |          |                                           | N/A                 |          | 12                                     | 2 1/2               | 4        | 5                           | 2 1/2               | 4 | 18                                  | 3 1/4 | 5 | 5 3/4                 | 7'-5"           |

| CP0001/CP0651 - 0.0296_0.022 Minimum Thickness Galvanized or Stainless Steel - 120 PSF |                        |      |          |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                                                                  |       |       |                                          |              |          |                       |           |                    |                         |                            |                         |                            |               |        |        |                    |        |  |  |              |
|----------------------------------------------------------------------------------------|------------------------|------|----------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|--------------------------|------|-------|------------------------------------------------------------------|-------|-------|------------------------------------------|--------------|----------|-----------------------|-----------|--------------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------|--------------------|--------|--|--|--------------|
| Guide Construction                                                                     |                        |      |          |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |       |       |                                          |              |          |                       |           |                    |                         |                            |                         |                            |               |        |        |                    |        |  |  |              |
| D.B.G. Up To                                                                           | Windlock Flat Location | Slip | Windlock | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt TZ2 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel                                      |       |       | Simpson Strong-Tie Titen Stainless Steel |              |          | Through Bolting       |           | Min. Edge Distance | Welded                  |                            | Through Bolt            |                            | Tapped Bolt   |        |        | Superimposed Loads |        |  |  | D.B.G. Up To |
|                                                                                        |                        |      |          |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                                                         | Dia.  | Embed | Max O.C.                                 | Dia.         | Max O.C. | Heel and Toe Max O.C. | Slot Size |                    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) | Vy (+) | Vx (-)             | Vy (-) |  |  |              |
| 5'-5"                                                                                  | N/A                    | N/A  | N/A      | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 12                    | 1/2  | 4 1/4 | N/A         | 9    | 1/2   | 4 1/4                    | N/A  | 8     | 3/8                                                              | 5 3/4 | 36    | 36                                       | 7/16" x 5/8" | 36       | 36                    | 36        | 32                 | 3/16                    | 0                          | 330                     | 0                          | 325           | 5'-5"  |        |                    |        |  |  |              |
| 6'-5"                                                                                  | N/A                    | N/A  | N/A      | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 9                     | 1/2  | 4 1/4 | N/A         | 8    | 1/2   | 4 1/4                    | N/A  | 8     | 3/8                                                              | 5 3/4 | 36    | 36                                       | 7/16" x 5/8" | 36       | 36                    | 32        | 27                 | 3/16                    | 0                          | 390                     | 0                          | 385           | 6'-5"  |        |                    |        |  |  |              |
| 7'-5"                                                                                  | N/A                    | N/A  | N/A      | 344*           | N/A                      | 3/8                        | 21                        | 8                                            | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 8                     | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | N/A                      | 8    | 3/8   | 5 3/4                                                            | 36    | 36    | 7/16" x 5/8"                             | 36           | 36       | 28                    | 23        | 3/16               | 0                       | 450                        | 0                       | 445                        | 7'-5"         |        |        |                    |        |  |  |              |

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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |                        |          |                       |       |          |             |       |          |                          |       |          |                             |       |          |                                          |         |                                                                  |                 |              |                    |                       |           |                         |                            |                         |                            |               |                    |        |        |        |              |        |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|------------------------|----------|-----------------------|-------|----------|-------------|-------|----------|--------------------------|-------|----------|-----------------------------|-------|----------|------------------------------------------|---------|------------------------------------------------------------------|-----------------|--------------|--------------------|-----------------------|-----------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------------------|--------|--------|--------|--------------|--------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |                        |          |                       |       |          |             |       |          |                          |       |          |                             |       |          |                                          |         | Steel (Wall anchors are the same diameter as assembly fasteners) |                 |              |                    |                       |           |                         |                            |                         |                            |               |                    |        |        |        |              |        |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      | Powers Power-Stud+ SD1 |          | Simpson Strong-Bolt 2 |       |          | Hilti KH-EZ |       |          | Simpson Strong-Tie Titen |       |          | Hilti KH-EZ Stainless Steel |       |          | Simpson Strong-Tie Titen Stainless Steel |         |                                                                  | Through Bolting |              | Min. Edge Distance | Welded                |           | Through Bolt            |                            | Tapped Bolt             |                            |               | Superimposed Loads |        |        |        | D.B.G. Up To |        |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed                  | Max O.C. | Dia.                  | Embed | Max O.C. | Dia.        | Embed | Max O.C. | Dia.                     | Embed | Max O.C. | Dia.                        | Embed | Max O.C. | Dia.                                     | Embed   | Max O.C.                                                         | Dia.            |              | Slot Max O.C.      | Heel and Toe Max O.C. | Slot Size | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+)             | Vy (+) | Vx (-) | Vy (-) |              |        |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/8  | 1 7/8                  | 15       | 3/8                   | 2 3/8 | 15       | 3/8         | 2 5/8 | 10       | 3/8                      | 1 5/8 | 16       | 3/8                         | 2 3/4 | 11       | 3/8                                      | 2       | 14                                                               | 3/8             | 2 3/4        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 55     | 0      | 54           | 5'-5"  |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/8  | 1 7/8                  | 13       | 3/8                   | 2 3/8 | 12       | 3/8         | 2 5/8 | 9        | 3/8                      | 1 5/8 | 14       | 3/8                         | 2 3/4 | 9        | 3/8                                      | 2       | 12                                                               | 3/8             | 2 3/4        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 65     | 0      | 64           | 6'-5"  |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 1 7/8                  | 11       | 3/8                   | 2 3/8 | 11       | 3/8         | 2 5/8 | 31       | 3/8                      | 3 1/4 | 12       | 3/8                         | 2 3/4 | 8        | 3/8                                      | 2       | 10                                                               | 3/8             | 2 3/4        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 75     | 0      | 74           | 7'-5"  |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 1 7/8                  | 10       | 3/8                   | 2 3/8 | 9        | 3/8         | 2 5/8 | 27       | 3/8                      | 3 1/4 | 15       | 1/2                         | 3 1/2 | 27       | 3/8                                      | 3 1/4   | 15                                                               | 1/2             | 3 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 85     | 0      | 84           | 8'-5"  |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 14                                           | 3/8  | 3                      | 8        | 3/8                   | 2 3/8 | 8        | 3/8         | 2 5/8 | 24       | 3/8                      | 3 1/4 | 13       | 1/2                         | 3 1/2 | 24       | 3/8                                      | 3 1/4   | 13                                                               | 1/2             | 3 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 95     | 0      | 94           | 9'-5"  |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/8  | 3                      | 8        | 3/8                   | 2 3/8 | 9        | 1/2         | 3 1/2 | 22       | 3/8                      | 3 1/4 | 12       | 1/2                         | 3 1/2 | 22       | 3/8                                      | 3 1/4   | 12                                                               | 1/2             | 3 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 105    | 0      | 104          | 10'-5" |
| 11'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/8  | 3                      | 8        | 1/2                   | 2 1/2 | 8        | 1/2         | 3 1/2 | 20       | 3/8                      | 3 1/4 | 15       | 5/8                         | 4 1/2 | 20       | 3/8                                      | 3 1/4   | 15                                                               | 5/8             | 4 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 115    | 0      | 114          | 11'-5" |
| 12'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/8  | 3                      | 8        | 1/2                   | 2 1/2 | 8        | 1/2         | 3 1/2 | 18       | 3/8                      | 3 1/4 | 14       | 5/8                         | 4 1/2 | 18       | 3/8                                      | 3 1/4   | 14                                                               | 5/8             | 4 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 125    | 0      | 124          | 12'-5" |
| 13'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/8  | 3                      | 10       | 5/8                   | 3 3/8 | 12       | 5/8         | 4 3/8 | 17       | 3/8                      | 3 1/4 | 13       | 5/8                         | 4 1/2 | 17       | 3/8                                      | 3 1/4   | 13                                                               | 5/8             | 4 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 135    | 0      | 134          | 13'-5" |
| 14'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 3/8  | 3                      | 9        | 5/8                   | 3 3/8 | 11       | 5/8         | 4 3/8 | 16       | 3/8                      | 3 1/4 | 12       | 5/8                         | 4 1/2 | 15       | 3/8                                      | 3 1/4   | 12                                                               | 5/8             | 4 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 145    | 0      | 144          | 14'-5" |
| 15'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3                      | 8        | 5/8                   | 3 3/8 | 11       | 5/8         | 4 3/8 | 15       | 3/8                      | 3 1/4 | 14       | 3/4                         | 5 1/2 | 14       | 3/8                                      | 3 1/4   | 9                                                                | 3/4             | 5 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 155    | 0      | 154          | 15'-5" |
| 16'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3                      | 8        | 5/8                   | 3 3/8 | 10       | 5/8         | 4 3/8 | 14       | 3/8                      | 3 1/4 | 13       | 3/4                         | 5 1/2 | 13       | 3/8                                      | 3 1/4   | 8                                                                | 3/4             | 5 1/2        | 8                  | 3/8                   | 5 3/4     | 36                      | 36                         | 7/16" x 5/8"            | 36                         | 36            | 3/16               | 0      | 165    | 0      | 164          | 16'-5" |
| 17'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 1/2  | 3 3/4                  | N/A      | 9                     | 5/8   | 4 3/8    | 13          | 3/8   | 3 1/4    | 12                       | 3/4   | 5 1/2    | 13                          | 3/8   | 3 1/4    | 8                                        | 3/4     | 5 1/2                                                            | 8               | 3/8          | 5 3/4              | 36                    | 36        | 7/16" x 5/8"            | 36                         | 36                      | 3/16                       | 0             | 175                | 0      | 174    | 17'-5" |              |        |
| 18'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 1/2  | 3 3/4                  | N/A      | 9                     | 5/8   | 4 3/8    | 12          | 3/8   | 3 1/4    | 12                       | 3/4   | 5 1/2    | 12                          | 3/8   | 3 1/4    | N/A                                      | 8       | 3/8                                                              | 5 3/4           | 36           | 36                 | 7/16" x 5/8"          | 36        | 36                      | 3/16                       | 0                       | 185                        | 0             | 184                | 18'-5" |        |        |              |        |
| 19'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2                  | N/A      | 8                     | 5/8   | 4 3/8    | 12          | 3/8   | 3 1/4    | N/A                      | 11    | 3/8      | 3 1/4                       | N/A   | 8        | 3/8                                      | 3 1/4   | N/A                                                              | 8               | 3/8          | 5 3/4              | 36                    | 36        | 7/16" x 5/8"            | 36                         | 36                      | 3/16                       | 0             | 195                | 0      | 194    | 19'-5" |              |        |
| 20'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 16                        | 8                                            | 1/2  | 3 3/4                  | N/A      | 8                     | 5/8   | 4 3/8    | 10          | 3/8   | 3 1/4    | N/A                      | 10    | 3/8      | 3 1/4                       | N/A   | 8        | 3/8                                      | 3 1/4   | 20                                                               | 36              | 7/16" x 5/8" | 19                 | 14                    | 7         | 5                       | 3/16                       | 501                     | 205                        | 488           | 204                | 20'-5" |        |        |              |        |
| 21'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 12                       | 3/8                        | 13                        | 8                                            | 5/8  | 4 1/2                  | N/A      | 8                     | 3/4   | 5 1/4    | 14          | 1/2   | 4 1/4    | N/A                      | 11    | 1/2      | 4 1/4                       | N/A   | 8        | 3/8                                      | 5 3/4   | 16                                                               | 30              | 7/16" x 5/8" | 14                 | 10                    | 5         | N/A                     | 3/16                       | 637                     | 215                        | 625           | 215                | 21'-5" |        |        |              |        |
| 22'-5"                                                                                | 1 1/2                  | 0.719 | CP0629          | 344            | 10                       | 3/8                        | 11                        | 12                                           | 3/4  | 5 1/2                  | N/A      | N/A                   | N/A   | 9        | 1/2         | 4 1/4 | N/A      | 9                        | 1/2   | 4 1/4    | N/A                         | 8     | 3/8      | 5 3/4                                    | 13      | 25                                                               | 7/16" x 5/8"    | 11           | 7                  | N/A                   | N/A       | 3/16                    | 767                        | 225                     | 756                        | 225           | 22'-5"             |        |        |        |              |        |
| 23'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                            | 5/8  | 4 1/2                  | N/A      | 8                     | 3/4   | 5 1/4    | 14          | 1/2   | 4 1/4    | N/A                      | 11    | 1/2      | 4 1/4                       | N/A   | 8        | 1/2                                      | 6 13/16 | 23                                                               | 36              | 9/16" x 3/4" | 32                 | 25                    | 11        | 8                       | 1/4                        | 680                     | 244                        | 673           | 244                | 23'-5" |        |        |              |        |
| 24'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 12                       | 1/2                        | 18                        | 8                                            | 5/8  | 4 1/2                  | N/A      | 8                     | 3/4   | 5 1/4    | 14          | 1/2   | 4 1/4    | N/A                      | 11    | 1/2      | 4 1/4                       | N/A   | 8        | 1/2                                      | 6 13/16 | 23                                                               | 36              | 9/16" x 3/4" | 32                 | 25                    | 11        | 8                       | 1/4                        | 680                     | 244                        | 673           | 244                | 24'-5" |        |        |              |        |
| 25'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 12                                           | 3/4  | 5 1/2                  | N/A      | N/A                   | N/A   | 11       | 1/2         | 4 1/4 | N/A      | 9                        | 1/2   | 4 1/4    | N/A                         | 8     | 1/2      | 6 13/16                                  | 20      | 32                                                               | 9/16" x 3/4"    | 28           | 22                 | 10                    | 7         | 1/4                     | 780                        | 254                     | 773                        | 254           | 25'-5"             |        |        |        |              |        |
| 26'-5"                                                                                | 2                      | 1.219 | CP0629          | 445            | 10                       | 1/2                        | 18                        | 11                                           | 3/4  | 5 1/2                  | N/A      | N/A                   | N/A   | 9        | 1/2         | 4 1/4 | N/A      | 9                        | 1/2   | 4 1/4    | N/A                         | 8     | 1/2      | 6 13/16                                  | 18      | 28                                                               | 9/16" x 3/4"    | 25           | 18                 | 9                     | 6         | 1/4                     | 878                        | 264                     | 871                        | 264           | 26'-5"             |        |        |        |              |        |
| 27'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 10                       | 1/2                        | 16                        | 9                                            | 3/4  | 5 1/2                  | N/A      | N/A                   | N/A   | 8        | 1/2         | 4 1/4 | N/A      | N/A                      | N/A   | N/A      | 8                           | 1/2   | 6 13/16  | 16                                       | 25      | 9/16" x 3/4"                                                     | 21              | 15           | 7                  | 5                     | 1/4       | 1011                    | 274                        | 1004                    | 274                        | 27'-5"        |                    |        |        |        |              |        |
| 28'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 15                        | 8                                            | 3/4  | 5 1/2                  | N/A      | N/A                   | N/A   | 9        | 3/4         | 6 1/4 | N/A      | N/A                      | N/A   | N/A      | 8                           | 1/2   | 6 13/16  | 14                                       | 23      | 9/16" x 3/4"                                                     | 19              | 13           | 7                  | 5                     | 1/4       | 1108                    | 284                        | 1101                    | 285                        | 28'-5"        |                    |        |        |        |              |        |
| 29'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 14                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | 8        | 3/4         | 6 1/4 | N/A      | N/A                      | N/A   | N/A      | 8                           | 1/2   | 6 13/16  | 13                                       | 21      | 9/16" x 3/4"                                                     | 17              | 12           | 6                  | N/A                   | 1/4       | 1203                    | 294                        | 1197                    | 295                        | 29'-5"        |                    |        |        |        |              |        |
| 30'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 13                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 1/2   | 6 13/16  | 12                                       | 19      | 9/16" x 3/4"                                                     | 15              | 10           | 6                  | N/A                   | 1/4       | 1299                    | 304                        | 1292                    | 305                        | 30'-5"        |                    |        |        |        |              |        |
| 31'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 12                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 1/2   | 6 13/16  | 11                                       | 18      | 9/16" x 3/4"                                                     | 14              | 9            | 5                  | N/A                   | 1/4       | 1393                    | 314                        | 1387                    | 315                        | 31'-5"        |                    |        |        |        |              |        |
| 32'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 11                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 1/2   | 6 13/16  | 10                                       | 17      | 9/16" x 3/4"                                                     | 12              | 8            | 5                  | N/A                   | 1/4       | 1488                    | 324                        | 1481                    | 325                        | 32'-5"        |                    |        |        |        |              |        |
| 33'-5"                                                                                | 2                      | 1.156 | CP0630          | 446            | 8                        | 5/8                        | 17                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 5/8   | 6 7/8    | 11                                       | 18      | 11/16" x 7/8"                                                    | 21              | 15           | 7                  | 5                     | 5/16      | 1582                    | 334                        | 1575                    | 335                        | 33'-5"        |                    |        |        |        |              |        |
| 34'-5"                                                                                | 2                      | 1.156 | CP0630          | 446            | 8                        | 5/8                        | 16                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 5/8   | 6 7/8    | 11                                       | 17      | 11/16" x 7/8"                                                    | 19              | 14           | 7                  | 5                     | 5/16      | 1676                    | 345                        | 1669                    | 345                        | 34'-5"        |                    |        |        |        |              |        |
| 35'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 446            | 6                        | 5/8                        | 16                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 5/8   | 6 7/8    | 10                                       | 16      | 11/16" x 7/8"                                                    | 18              | 12           | 6                  | N/A                   | 5/16      | 1770                    | 355                        | 1764                    | 355                        | 35'-5"        |                    |        |        |        |              |        |
| 36'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 15                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           | 5/8   | 6 7/8    | 10                                       | 15      | 11/16" x 7/8"                                                    | 17              | 12           | 6                  | N/A                   | 5/16      | 1865                    | 365                        | 1858                    | 365                        | 36'-5"        |                    |        |        |        |              |        |
| 37'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A                    | N/A      | N/A                   | N/A   | N/A      | N/A         | N/A   | N/A      | N/A                      | N/A   | N/A      | 8                           |       |          |                                          |         |                                                                  |                 |              |                    |                       |           |                         |                            |                         |                            |               |                    |        |        |        |              |        |

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| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0405 0.022 Minimum Thickness Galvanized or Stainless Steel - 20 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |  |  |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|---------|--------|--|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |  |  |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |         |        |  |  |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |         |        |  |  |  |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 34                | 2 3/8 | 4                   | 33                     | 2 3/8 | 3 3/4               | 34                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 33                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 29    | 1 7/8               | 3 1/4                                  | 33    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 5'-5"   |        |  |  |  |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 31                | 2 3/8 | 4                   | 30                     | 2 3/8 | 3 3/4               | 31                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 30                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 27    | 1 7/8               | 3 1/4                                  | 31    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 6'-5"   |        |  |  |  |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 29                | 2 3/8 | 4                   | 28                     | 2 3/8 | 3 3/4               | 29                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 28                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 25    | 1 7/8               | 3 1/4                                  | 28    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 7'-5"   |        |  |  |  |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 27                | 2 3/8 | 4                   | 26                     | 2 3/8 | 3 3/4               | 27                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 26                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 23    | 1 7/8               | 3 1/4                                  | 27    | 2 1/2               | 4                           | 36    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 8'-5"   |        |  |  |  |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 26                | 2 3/8 | 4                   | 25                     | 2 3/8 | 3 3/4               | 26                  | 2 1/2 | 4                   | 34          | 2 1/2 | 4                   | 25                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 22    | 1 7/8               | 3 1/4                                  | 25    | 2 1/2               | 4                           | 35    | 2 1/2               | 4                                   | 36    | 2 1/2               | 4                     | 5 3/4           | 9'-5"   |        |  |  |  |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 32          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 21    | 1 7/8               | 3 1/4                                  | 24    | 2 1/2               | 4                           | 33    | 2 1/2               | 4                                   | 34    | 2 1/2               | 4                     | 5 3/4           | 10'-5"  |        |  |  |  |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 23                | 2 3/8 | 4                   | 22                     | 2 3/8 | 3 3/4               | 23                  | 2 1/2 | 4                   | 30          | 2 1/2 | 4                   | 22                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 20    | 1 7/8               | 3 1/4                                  | 23    | 2 1/2               | 4                           | 32    | 2 1/2               | 4                                   | 32    | 2 1/2               | 4                     | 5 3/4           | 11'-5"  |        |  |  |  |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 19    | 1 7/8               | 3 1/4                                  | 22    | 2 1/2               | 4                           | 30    | 2 1/2               | 4                                   | 31    | 2 1/2               | 4                     | 5 3/4           | 12'-5"  |        |  |  |  |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 21    | 2 1/2               | 4                           | 29    | 2 1/2               | 4                                   | 30    | 2 1/2               | 4                     | 5 3/4           | 13'-5"  |        |  |  |  |
| 14'-5"                                                                                                | 344*              |                       | N/A   |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 35                                       |       | N/A                 |                                           | 18    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 28    | 2 1/2               | 4                                   | 29    | 2 1/2               | 4                     | 5 3/4           | 14'-5"  |        |  |  |  |
| 15'-5"                                                                                                | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 33                                       |       | N/A                 |                                           | 17    | 1 7/8               | 3 1/4                                  | 20    | 2 1/2               | 4                           | 27    | 2 1/2               | 4                                   | 28    | 2 1/2               | 4                     | 5 3/4           | 15'-5"  |        |  |  |  |
| 16'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 31                                       |       | N/A                 |                                           | 17    | 1 7/8               | 3 1/4                                  | 19    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 27    | 2 1/2               | 4                     | 5 3/4           | 16'-5"  |        |  |  |  |
| 17'-5"                                                                                                | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 29                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 18    | 2 1/2               | 4                           | 26    | 2 1/2               | 4                                   | 26    | 2 1/2               | 4                     | 5 3/4           | 17'-5"  |        |  |  |  |
| 18'-5"                                                                                                | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 28                                       |       | N/A                 |                                           | 16    | 1 7/8               | 3 1/4                                  | 18    | 2 1/2               | 4                           | 25    | 2 1/2               | 4                                   | 25    | 2 1/2               | 4                     | 5 3/4           | 18'-5"  |        |  |  |  |
| 19'-5"                                                                                                | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 25         | 3 1/2 | 4 3/4               | 34                                            |                                                  | 26                                       |       | N/A                 |                                           | 15    | 1 7/8               | 3 1/4                                  | 17    | 2 1/2               | 4                           | 24    | 2 1/2               | 4                                   | 25    | 2 1/2               | 4                     | 5 3/4           | 19'-5"  |        |  |  |  |
| 20'-5"                                                                                                | 344               |                       | N/A   |                     | 13                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 30                                       |       | N/A                 |                                           | 8     | 1 7/8               | 3 1/4                                  | 15    | 2 1/2               | 4                           | 21    | 2 1/2               | 4                                   | 21    | 2 1/2               | 4                     | 5 3/4           | 20'-5"  |        |  |  |  |
| 21'-5"                                                                                                | 344               |                       | N/A   |                     | 11                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 31                                            |                                                  | 22                                       |       | N/A                 |                                           |       | N/A                 |                                        | 13    | 2 1/2               | 4                           | 16    | 2 1/2               | 4                                   | 16    | 2 1/2               | 4                     | 5 3/4           | 21'-5"  |        |  |  |  |
| 22'-5"                                                                                                | 344               |                       | N/A   |                     | 8                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 11                  | 2 1/2 | 4                   | 5           | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 12         | 3 1/2 | 4 3/4               | 25                                            |                                                  | 16                                       |       | N/A                 |                                           |       | N/A                 |                                        | 11    | 2 1/2               | 4                           | 5     | 2 1/2               | 4                                   | 17    | 3 1/4               | 5                     | 5 3/4           | 22'-5"  |        |  |  |  |
| 23'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 24          | 4 1/4 | 6 3/4               | 19                  | 4     | 6                   | 25         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 21                  | 3 7/8                                     | 6     | 13                  | 2 1/2                                  | 4     | 20                  | 3 3/4                       | 5 1/2 | 22                  | 4 1/4                               | 6 3/4 | 26                  | 4                     | 6 1/4           | 6 13/16 | 23'-5" |  |  |  |
| 24'-5"                                                                                                | 445               | 21                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 24          | 4 1/4 | 6 3/4               | 19                  | 4     | 6                   | 25         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 21                  | 3 7/8                                     | 6     | 13                  | 2 1/2                                  | 4     | 20                  | 3 3/4                       | 5 1/2 | 22                  | 4 1/4                               | 6 3/4 | 26                  | 4                     | 6 1/4           | 6 13/16 | 24'-5" |  |  |  |
| 25'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 17                | 3 5/8 | 6                   | 16                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 22          | 4 1/4 | 6 3/4               | 17                  | 4     | 6                   | 22         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 18                  | 3 7/8                                     | 6     | 10                  | 2 1/2                                  | 4     | 19                  | 3 3/4                       | 5 1/2 | 20                  | 4 1/4                               | 6 3/4 | 24                  | 4                     | 6 1/4           | 6 13/16 | 25'-5" |  |  |  |
| 26'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 15                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 20         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 16                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 18                  | 3 3/4                       | 5 1/2 | 17                  | 4 1/4                               | 6 3/4 | 23                  | 4                     | 6 1/4           | 6 13/16 | 26'-5" |  |  |  |
| 27'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 11                | 3 5/8 | 6                   | 13                     | 3 3/4 | 6                   | 15                  | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 30                                       |       | 14                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 16                  | 3 3/4                       | 5 1/2 | 13                  | 4 1/4                               | 6 3/4 | 21                  | 4                     | 6 1/4           | 6 13/16 | 27'-5" |  |  |  |
| 28'-5"                                                                                                | 445               | 15                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 11                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 12                  | 4     | 6                   | 16         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 27                                       |       | 13                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 15                  | 3 3/4                       | 5 1/2 | 11                  | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 28'-5" |  |  |  |
| 29'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 35                                            |                                                  | 24                                       |       | 12                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 13                  | 3 3/4                       | 5 1/2 | 10                  | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 29'-5" |  |  |  |
| 30'-5"                                                                                                | 445               | 12                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 31                                            |                                                  | 21                                       |       | 10                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 9                   | 3 3/4                       | 5 1/2 | 9                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 30'-5" |  |  |  |
| 31'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 12         | 4 1/4 | 5 1/2               | 28                                            |                                                  | 19                                       |       | 10                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 9                   | 3 3/4                       | 5 1/2 | 9                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 31'-5" |  |  |  |
| 32'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 6                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 8                   | 4     | 6                   | 10         | 4 1/4 | 5 1/2               | 26                                            |                                                  | 17                                       |       | 9                   | 3 7/8                                     | 6     |                     | N/A                                    |       | 9                   | 3 3/4                       | 5 1/2 | 8                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 32'-5" |  |  |  |
| 33'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 16         | 5     | 6 1/4               | 36                                            |                                                  | 33                                       |       | 15                  | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 9                   | 4 1/2                       | 6     |                     | N/A                                 |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8   | 33'-5" |  |  |  |
| 34'-5"                                                                                                | 446               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            |                                                  | 31                                       |       | 11                  | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 8                   | 4 1/2                       | 6     |                     | N/A                                 |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8   | 34'-5" |  |  |  |
| 35'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 11         | 5     | 6 1/4               | 36                                            |                                                  | 28                                       |       | 10                  | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 8                   | 4 1/2                       | 6     |                     | N/A                                 |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8   | 35'-5" |  |  |  |
| 36'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 10         | 5     | 6 1/4               | 36                                            |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |  |  |  |

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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| Guide Construction |                           |       |                 |                   |                             |                                  |                                 |                                                 |      | Filled CMU                |          |                       |       |          |             |       |          |                             |       |          |                                |       |          |                                             |       |          |                    |       |                       | Steel (Wall anchors are the same diameter as assembly fasteners) |         |               |                          |              |                            |                               |                            |                               |                  |        |        |                 |        |        |
|--------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|---------------------------|----------|-----------------------|-------|----------|-------------|-------|----------|-----------------------------|-------|----------|--------------------------------|-------|----------|---------------------------------------------|-------|----------|--------------------|-------|-----------------------|------------------------------------------------------------------|---------|---------------|--------------------------|--------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|--------|--------|-----------------|--------|--------|
| D.B.G.<br>Up To    | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      | Powers Power-Stud+<br>SD1 |          | Simpson Strong-Bolt 2 |       |          | Hilti KH-EZ |       |          | Simpson Strong-Tie<br>Titen |       |          | Hilti KH-EZ Stainless<br>Steel |       |          | Simpson Strong-Tie<br>Titen Stainless Steel |       |          | Through<br>Bolting |       | Min. Edge<br>Distance | Welded                                                           |         | Through Bolt  |                          |              | Tapped Bolt                |                               |                            | Superimposed Loads            |                  |        |        | D.B.G.<br>Up To |        |        |
|                    |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed                     | Max O.C. | Dia.                  | Embed | Max O.C. | Dia.        | Embed | Max O.C. | Dia.                        | Embed | Max O.C. | Dia.                           | Embed | Max O.C. | Dia.                                        | Embed | Max O.C. | Dia.               | Embed |                       | Max O.C.                                                         | Dia.    | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size    | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+) | Vy (+) |                 | Vx (-) | Vy (-) |
| 5'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 3/8  | 1 7/8                     | 10       | 3/8                   | 2 3/8 | 10       | 3/8         | 2 5/8 | 28       | 3/8                         | 3 1/4 | 16       | 1/2                            | 3 1/2 | 28       | 3/8                                         | 3 1/4 | 15       | 1/2                | 3 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 83     | 0               | 81     | 5'-5"  |
| 6'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/8  | 3                         | 8        | 3/8                   | 2 3/8 | 8        | 3/8         | 2 5/8 | 24       | 3/8                         | 3 1/4 | 13       | 1/2                            | 3 1/2 | 23       | 3/8                                         | 3 1/4 | 13       | 1/2                | 3 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 98     | 0               | 96     | 6'-5"  |
| 7'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/8  | 3                         | 9        | 1/2                   | 2 1/2 | 9        | 1/2         | 3 1/2 | 20       | 3/8                         | 3 1/4 | 15       | 5/8                            | 4 1/2 | 20       | 3/8                                         | 3 1/4 | 15       | 5/8                | 4 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 113    | 0               | 111    | 7'-5"  |
| 8'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/8  | 3                         | 10       | 5/8                   | 3 3/8 | 13       | 5/8         | 4 3/8 | 18       | 3/8                         | 3 1/4 | 13       | 5/8                            | 4 1/2 | 18       | 3/8                                         | 3 1/4 | 13       | 5/8                | 4 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 128    | 0               | 126    | 8'-5"  |
| 9'-5"              | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 3/8  | 3                         | 9        | 5/8                   | 3 3/8 | 11       | 5/8         | 4 3/8 | 16       | 3/8                         | 3 1/4 | 12       | 5/8                            | 4 1/2 | 16       | 3/8                                         | 3 1/4 | 12       | 5/8                | 4 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 143    | 0               | 141    | 9'-5"  |
| 10'-5"             | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3                         | 8        | 5/8                   | 3 3/8 | 10       | 5/8         | 4 3/8 | 14       | 3/8                         | 3 1/4 | 14       | 3/4                            | 5 1/2 | 14       | 3/8                                         | 3 1/4 | 9        | 3/4                | 5 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 158    | 0               | 156    | 10'-5" |
| 11'-5"             | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3                         |          | N/A                   |       | 9        | 5/8         | 4 3/8 | 13       | 3/8                         | 3 1/4 | 13       | 3/4                            | 5 1/2 | 13       | 3/8                                         | 3 1/4 | 8        | 3/4                | 5 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 173    | 0               | 171    | 11'-5" |
| 12'-5"             | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4                     |          | N/A                   |       | 9        | 5/8         | 4 3/8 | 12       | 3/8                         | 3 1/4 | 12       | 3/4                            | 5 1/2 | 12       | 3/8                                         | 3 1/4 |          | N/A                |       | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 188    | 0               | 186    | 12'-5" |
| 13'-5"             | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8  | 4 1/2                     |          | N/A                   |       | 8        | 5/8         | 4 3/8 | 11       | 3/8                         | 3 1/4 |          | N/A                            |       | 11       | 3/8                                         | 3 1/4 |          | N/A                |       | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 203    | 0               | 201    | 13'-5" |
| 14'-5"             | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2                     |          | N/A                   |       | 9        | 3/4         | 5 1/4 | 10       | 3/8                         | 3 1/4 |          | N/A                            |       | 10       | 3/8                                         | 3 1/4 |          | N/A                |       | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 218    | 0               | 216    | 14'-5" |
| 15'-5"             | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2                     |          | N/A                   |       | 8        | 3/4         | 5 1/4 | 10       | 3/8                         | 3 1/4 |          | N/A                            |       | 9        | 3/8                                         | 3 1/4 |          | N/A                |       | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 36                         | 36                            | 36                         | 36                            | 3/16             | 0      | 233    | 0               | 231    | 15'-5" |
| 16'-5"             | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 9                                               | 3/8  | 3                         | 8        | 1/2                   | 2 1/2 | 8        | 1/2         | 3 1/2 | 18       | 3/8                         | 3 1/4 | 15       | 5/8                            | 4 1/2 | 18       | 3/8                                         | 3 1/4 | 12       | 5/8                | 4 1/2 | 8                     | 3/8                                                              | 5 3/4   | 36            | 36                       | 7/16" x 5/8" | 34                         | 26                            | 12                         | 10                            | 3/16             | 268    | 247    | 246             | 246    | 16'-5" |
| 17'-5"             | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 15                              | 10                                              | 5/8  | 4 1/2                     |          | N/A                   |       | 8        | 5/8         | 4 3/8 | 10       | 3/8                         | 3 1/4 |          | N/A                            |       | 10       | 3/8                                         | 3 1/4 |          | N/A                |       | 8                     | 3/8                                                              | 5 3/4   | 20            | 36                       | 7/16" x 5/8" | 19                         | 14                            | 7                          | 6                             | 3/16             | 480    | 262    | 461             | 262    | 17'-5" |
| 18'-5"             | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 12                              | 12                                              | 3/4  | 5 1/2                     |          | N/A                   |       |          | N/A         |       | 12       | 1/2                         | 4 1/4 |          | N/A                            |       | 9        | 1/2                                         | 4 1/4 |          | N/A                |       | 8                     | 3/8                                                              | 5 3/4   | 15            | 27                       | 7/16" x 5/8" | 13                         | 9                             | 5                          | N/A                           | 3/16             | 680    | 277    | 661             | 277    | 18'-5" |
| 19'-5"             | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 15                                              | 3/4  | 5 1/2                     |          | N/A                   |       | 8        | 3/4         | 5 1/4 | 13       | 1/2                         | 4 1/4 |          | N/A                            |       | 11       | 1/2                                         | 4 1/4 |          | N/A                |       | 8                     | 1/2                                                              | 6 13/16 | 24            | 36                       | 9/16" x 3/4" | 33                         | 26                            | 12                         | 8                             | 1/4              | 662    | 306    | 652             | 306    | 19'-5" |
| 20'-5"             | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 15                                              | 3/4  | 5 1/2                     |          | N/A                   |       | 8        | 3/4         | 5 1/4 | 13       | 1/2                         | 4 1/4 |          | N/A                            |       | 11       | 1/2                                         | 4 1/4 |          | N/A                |       | 8                     | 1/2                                                              | 6 13/16 | 24            | 36                       | 9/16" x 3/4" | 33                         | 26                            | 12                         | 8                             | 1/4              | 662    | 306    | 652             | 306    | 20'-5" |
| 21'-5"             | 2                         | 1.219 | CP0629          | 445               | 10                          | 1/2                              | 18                              | 11                                              | 3/4  | 5 1/2                     |          | N/A                   |       |          | N/A         |       | 9        | 1/2                         | 4 1/4 |          | N/A                            |       | 9        | 1/2                                         | 4 1/4 |          | N/A                |       | 8                     | 1/2                                                              | 6 13/16 | 20            | 31                       | 9/16" x 3/4" | 27                         | 21                            | 9                          | 7                             | 1/4              | 810    | 321    | 800             | 321    | 21'-5" |
| 22'-5"             | 2                         | 1.156 | CP0630          | 445               | 10                          | 1/2                              | 15                              | 9                                               | 3/4  | 5 1/2                     |          | N/A                   |       |          | N/A         |       | 8        | 1/2                         | 4 1/4 |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 1/2                   | 6 13/16                                                          | 16      | 25            | 9/16" x 3/4"             | 22           | 16                         | 8                             | 5                          | 1/4                           | 994              | 336    | 984    | 336             | 22'-5" |        |
| 23'-5"             | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 14                              | 8                                               | 3/4  | 5 1/2                     |          | N/A                   |       |          | N/A         |       | 9        | 3/4                         | 6 1/4 |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 1/2                   | 6 13/16                                                          | 14      | 22            | 9/16" x 3/4"             | 18           | 13                         | 7                             | 5                          | 1/4                           | 1136             | 351    | 1126   | 352             | 23'-5" |        |
| 24'-5"             | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 12                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 1/2                   | 6 13/16                                                          | 12      | 19            | 9/16" x 3/4"             | 16           | 11                         | 6                             | N/A                        | 1/4                           | 1275             | 366    | 1266   | 367             | 24'-5" |        |
| 25'-5"             | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 11                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 1/2                   | 6 13/16                                                          | 11      | 18            | 9/16" x 3/4"             | 13           | 9                          | 5                             | N/A                        | 1/4                           | 1412             | 381    | 1403   | 382             | 25'-5" |        |
| 26'-5"             | 2                         | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 17                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 5/8                   | 6 7/8                                                            | 12      | 19            | 11/16" x 7/8"            | 21           | 15                         | 7                             | 5                          | 5/16                          | 1548             | 396    | 1538   | 397             | 26'-5" |        |
| 27'-5"             | 2                         | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 16                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 5/8                   | 6 7/8                                                            | 11      | 17            | 11/16" x 7/8"            | 19           | 14                         | 7                             | 5                          | 5/16                          | 1682             | 411    | 1673   | 412             | 27'-5" |        |
| 28'-5"             | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 15                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 5/8                   | 6 7/8                                                            | 10      | 16            | 11/16" x 7/8"            | 17           | 12                         | 6                             | N/A                        | 5/16                          | 1816             | 426    | 1807   | 427             | 28'-5" |        |
| 29'-5"             | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 5/8                   | 6 7/8                                                            | 9       | 15            | 11/16" x 7/8"            | 16           | 11                         | 6                             | N/A                        | 5/16                          | 1950             | 442    | 1940   | 443             | 29'-5" |        |
| 30'-5"             | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 5/8                   | 6 7/8                                                            | 9       | 14            | 11/16" x 7/8"            | 14           | 10                         | 5                             | N/A                        | 5/16                          | 2083             | 457    | 2074   | 458             | 30'-5" |        |
| 31'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 3/4                   | 7 1/2                                                            | 18      | 20            | 7/8" x 1"                | 36           | 31                         | 14                            | 10                         | 3/8                           | 1806             | 471    | 1796   | 471             | 31'-5" |        |
| 32'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 3/4                   | 7 1/2                                                            | 17      | 19            | 7/8" x 1"                | 36           | 29                         | 13                            | 9                          | 3/8                           | 1920             | 486    | 1911   | 486             | 32'-5" |        |
| 33'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 3/4                   | 7 1/2                                                            | 16      | 18            | 7/8" x 1"                | 36           | 27                         | 12                            | 9                          | 3/8                           | 2034             | 501    | 2025   | 501             | 33'-5" |        |
| 34'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 3/4                   | 7 1/2                                                            | 15      | 17            | 7/8" x 1"                | 34           | 25                         | 12                            | 8                          | 3/8                           | 2149             | 516    | 2140   | 516             | 34'-5" |        |
| 35'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 3/4                   | 7 1/2                                                            | 14      | 16            | 7/8" x 1"                | 32           | 23                         | 11                            | 8                          | 3/8                           | 2264             | 531    | 2255   | 532             | 35'-5" |        |
| 36'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              |                                                 | N/A  |                           |          | N/A                   |       |          | N/A         |       |          | N/A                         |       |          | N/A                            |       |          | N/A                                         |       | N/A      |                    | 8     | 3/4                   | 7 1/2                                                            | 13      | 15            | 7/8" x 1"                | 30           | 22                         | 10                            | 7                          | 3/8                           | 2379             | 546    | 2370   | 547             | 36'-5" |        |
| 37'-5"             | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              |                                                 | N/A  |                           |          | N/A</                 |       |          |             |       |          |                             |       |          |                                |       |          |                                             |       |          |                    |       |                       |                                                                  |         |               |                          |              |                            |                               |                            |                               |                  |        |        |                 |        |        |

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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
| *    | ORIGINAL ISSUE          | 11/26/2025 | KAD | 2398   |
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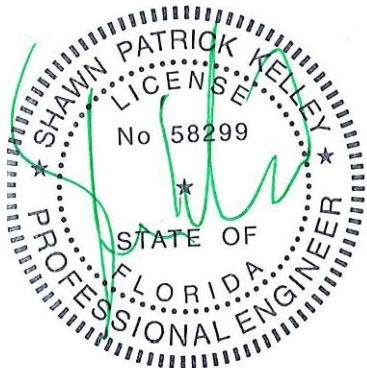
| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 30 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |  |  |  |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--|--|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |  |  |  |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |  |  |  |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |  |  |  |  |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 28                | 2 3/8 | 4                   | 27                     | 2 3/8 | 3 3/4               | 28                  | 2 1/2 | 4                   | 36          | 2 1/2 | 4                   | 27                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               | N/A                                      |       |                     | 24                                        | 1 7/8 | 3 1/4               | 27                                     | 2 1/2 | 4                   | 36                          | 2 1/2 | 4                   | 36                                  | 2 1/2 | 4                   | 5 3/4                 | 5'-5"           |  |  |  |  |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 25                | 2 3/8 | 4                   | 24                     | 2 3/8 | 3 3/4               | 25                  | 2 1/2 | 4                   | 33          | 2 1/2 | 4                   | 24                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               | N/A                                      |       |                     | 22                                        | 1 7/8 | 3 1/4               | 25                                     | 2 1/2 | 4                   | 35                          | 2 1/2 | 4                   | 35                                  | 2 1/2 | 4                   | 5 3/4                 | 6'-5"           |  |  |  |  |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 23                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               | N/A                                      |       |                     | 20                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 32                          | 2 1/2 | 4                   | 33                                  | 2 1/2 | 4                   | 5 3/4                 | 7'-5"           |  |  |  |  |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               | N/A                                      |       |                     | 19                                        | 1 7/8 | 3 1/4               | 22                                     | 2 1/2 | 4                   | 30                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4                   | 5 3/4                 | 8'-5"           |  |  |  |  |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 20                  | 2 1/4 | 4                   | 34         | 3 1/2 | 4 3/4               | 36                                            | 36                                               | N/A                                      |       |                     | 18                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 29                          | 2 1/2 | 4                   | 29                                  | 2 1/2 | 4                   | 5 3/4                 | 9'-5"           |  |  |  |  |
| 10'-5"                                                                                                | 344*              | N/A                   |       |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 31         | 3 1/2 | 4 3/4               | 36                                            | 33                                               | N/A                                      |       |                     | 17                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 27                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4                   | 5 3/4                 | 10'-5"          |  |  |  |  |
| 11'-5"                                                                                                | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 28         | 3 1/2 | 4 3/4               | 36                                            | 30                                               | N/A                                      |       |                     | 16                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 26                                  | 2 1/2 | 4                   | 5 3/4                 | 11'-5"          |  |  |  |  |
| 12'-5"                                                                                                | 344*              | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            | 27                                               | N/A                                      |       |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 25                          | 2 1/2 | 4                   | 25                                  | 2 1/2 | 4                   | 5 3/4                 | 12'-5"          |  |  |  |  |
| 13'-5"                                                                                                | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 14                  | 2 1/4 | 4                   | 24         | 3 1/2 | 4 3/4               | 33                                            | 25                                               | N/A                                      |       |                     | 15                                        | 1 7/8 | 3 1/4               | 17                                     | 2 1/2 | 4                   | 24                          | 2 1/2 | 4                   | 24                                  | 2 1/2 | 4                   | 5 3/4                 | 13'-5"          |  |  |  |  |
| 14'-5"                                                                                                | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 22         | 3 1/2 | 4 3/4               | 30                                            | 23                                               | N/A                                      |       |                     | 14                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 23                          | 2 1/2 | 4                   | 23                                  | 2 1/2 | 4                   | 5 3/4                 | 14'-5"          |  |  |  |  |
| 15'-5"                                                                                                | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 28                                            | 22                                               | N/A                                      |       |                     | 14                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 23                                  | 2 1/2 | 4                   | 5 3/4                 | 15'-5"          |  |  |  |  |
| 16'-5"                                                                                                | 344               | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 18                  | 2 1/4 | 4                   | 27         | 3 1/2 | 4 3/4               | 36                                            | 36                                               | N/A                                      |       |                     | 14                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 27                          | 2 1/2 | 4                   | 27                                  | 2 1/2 | 4                   | 5 3/4                 | 16'-5"          |  |  |  |  |
| 17'-5"                                                                                                | 344               | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 36                                            | 30                                               | N/A                                      |       |                     | 8                                         | 1 7/8 | 3 1/4               | 15                                     | 2 1/2 | 4                   | 21                          | 2 1/2 | 4                   | 20                                  | 2 1/2 | 4                   | 5 3/4                 | 17'-5"          |  |  |  |  |
| 18'-5"                                                                                                | 344               | N/A                   |       |                     | 10                | 2 3/8 | 4                   | 10                     | 2 3/8 | 3 3/4               | 13                  | 2 1/2 | 4                   | 15          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 28                                            | 19                                               | N/A                                      |       |                     |                                           | N/A   |                     | 12                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 18                                  | 3 1/4 | 5                   | 5 3/4                 | 18'-5"          |  |  |  |  |
| 19'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 18                  | 4     | 6                   | 25         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 20                                       | 3 7/8 | 6                   | 12                                        | 2 1/2 | 4                   | 20                                     | 3 3/4 | 5 1/2               | 22                          | 4 1/4 | 6 3/4               | 26                                  | 4     | 6 1/4               | 6 13/16               | 19'-5"          |  |  |  |  |
| 20'-5"                                                                                                | 445               | 20                    | 3 7/8 | 6                   | 18                | 3 5/8 | 6                   | 17                     | 3 3/4 | 6                   | 20                  | 3 3/4 | 5 1/2               | 23          | 4 1/4 | 6 3/4               | 18                  | 4     | 6                   | 25         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 20                                       | 3 7/8 | 6                   | 12                                        | 2 1/2 | 4                   | 20                                     | 3 3/4 | 5 1/2               | 22                          | 4 1/4 | 6 3/4               | 26                                  | 4     | 6 1/4               | 6 13/16               | 20'-5"          |  |  |  |  |
| 21'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 18                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 21         | 4 1/4 | 5 1/2               | 36                                            | 36                                               | 17                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 18                                     | 3 3/4 | 5 1/2               | 19                          | 4 1/4 | 6 3/4               | 23                                  | 4     | 6 1/4               | 6 13/16               | 21'-5"          |  |  |  |  |
| 22'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 11                | 3 5/8 | 6                   | 13                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            | 30                                               | 14                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 16                                     | 3 3/4 | 5 1/2               | 13                          | 4 1/4 | 6 3/4               | 21                                  | 4     | 6 1/4               | 6 13/16               | 22'-5"          |  |  |  |  |
| 23'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            | 25                                               | 12                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 13                                     | 3 3/4 | 5 1/2               | 10                          | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 23'-5"          |  |  |  |  |
| 24'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 31                                            | 21                                               | 10                                       | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 24'-5"          |  |  |  |  |
| 25'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 11         | 4 1/4 | 5 1/2               | 27                                            | 18                                               | 9                                        | 3 7/8 | 6                   |                                           | N/A   |                     | 9                                      | 3 3/4 | 5 1/2               | 9                           | 4 1/4 | 6 3/4               | 7                                   | 4     | 6 1/4               | 6 13/16               | 25'-5"          |  |  |  |  |
| 26'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 16         | 5     | 6 1/4               | 36                                            | 33                                               | 15                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 9                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 26'-5"          |  |  |  |  |
| 27'-5"                                                                                                | 446               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            | 30                                               | 11                                       | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 8                                      | 4 1/2 | 6                   |                             | N/A   |                     | 10                                  | 5 1/2 | 8 1/2               | 6 7/8                 | 27'-5"          |  |  |  |  |
| 28'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 10         | 5     | 6 1/4               | 36                                            | 27                                               | 9                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 7                                      | 4 1/2 | 6                   |                             | N/A   |                     | 9                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 28'-5"          |  |  |  |  |
| 29'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   |                     | N/A   |                     | 8          | 5     | 6 1/4               | 35                                            | 24                                               | 8                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 6                                      | 4 1/2 | 6                   |                             | N/A   |                     | 8                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 29'-5"          |  |  |  |  |
| 30'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   |                        | N/A   |                     |                     | N/A   |                     | 8           | 5     | 7                   |                     | N/A   |                     | 5          | 5     | 6 1/4               | 32                                            | 22                                               | 7                                        | 5 1/8 | 7 7/8               |                                           | N/A   |                     | 5                                      | 3 3/4 | 5 1/2               |                             | N/A   |                     | 7                                   | 5 1/2 | 8 1/2               | 6 7/8                 | 30'-5"          |  |  |  |  |
| 31'-5"                                                                                                | 548               | 17                    | 5 3/4 | 8 3/4               | 11                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 19                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 20         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 19                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 11                                     | 5 1/2 | 8                   |                             | N/A   |                     | 26                                  | 6 1/4 | 10                  | 7 1/2                 | 31'-5"          |  |  |  |  |
| 32'-5"                                                                                                | 548               | 16                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 14         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 18                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 10                                     | 5 1/2 | 8                   |                             | N/A   |                     | 25                                  | 6 1/4 | 10                  | 7 1/2                 | 32'-5"          |  |  |  |  |
| 33'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 16                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 9                                      | 5 1/2 | 8                   |                             | N/A   |                     | 24                                  | 6 1/4 | 10                  | 7 1/2                 | 33'-5"          |  |  |  |  |
| 34'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 12                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 9                                      | 5 1/2 | 8                   |                             | N/A   |                     | 11                                  | 6 1/4 | 10                  | 7 1/2                 | 34'-5"          |  |  |  |  |
| 35'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 11         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 11                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 8                                      | 5 1/2 | 8                   |                             | N/A   |                     | 10                                  | 6 1/4 | 10                  | 7 1/2                 | 35'-5"          |  |  |  |  |
| 36'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 10         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 10                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 7                                      | 5 1/2 | 8                   |                             | N/A   |                     | 9                                   | 6 1/4 | 10                  | 7 1/2                 | 36'-5"          |  |  |  |  |
| 37'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 8          | 6 5/8 | 7 7/8               | 36                                            | 33                                               | 10                                       | 5 3/4 | 8 3/4               |                                           | N/A   |                     | 6                                      | 5 1/2 | 8                   |                             | N/A   |                     |                                     |       |                     |                       |                 |  |  |  |  |

|      |                         |            |     |        |
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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |       |                           |      |                       |          |      |             |          |      |                             |          |      |                                |          |      |                                                                  |          |      |                    |                          |                       |           |                            |                               |                            |                               |                  |        |        |                    |        |      |      |                 |        |        |
|---------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|-------|---------------------------|------|-----------------------|----------|------|-------------|----------|------|-----------------------------|----------|------|--------------------------------|----------|------|------------------------------------------------------------------|----------|------|--------------------|--------------------------|-----------------------|-----------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|--------|--------|--------------------|--------|------|------|-----------------|--------|--------|
| Guide Construction                                                                    |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |       |                           |      |                       |          |      |             |          |      |                             |          |      |                                |          |      | Steel (Wall anchors are the same diameter as assembly fasteners) |          |      |                    |                          |                       |           |                            |                               |                            |                               |                  |        |        |                    |        |      |      |                 |        |        |
| D.B.G.<br>Up To                                                                       | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |       | Powers Power-Stud+<br>SD1 |      | Simpson Strong-Bolt 2 |          |      | Hilti KH-EZ |          |      | Simpson Strong-Tie<br>Titan |          |      | Hilti KH-EZ Stainless<br>Steel |          |      | Simpson Strong-Tie<br>Titan Stainless Steel                      |          |      | Through<br>Bolting |                          | Min. Edge<br>Distance | Welded    |                            | Through Bolt                  |                            |                               | Tapped Bolt      |        |        | Superimposed Loads |        |      |      | D.B.G.<br>Up To |        |        |
|                                                                                       |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Embed | Max O.C.                  | Dia. | Embed                 | Max O.C. | Dia. | Embed       | Max O.C. | Dia. | Embed                       | Max O.C. | Dia. | Embed                          | Max O.C. | Dia. | Embed                                                            | Max O.C. | Dia. | Slot Max<br>O.C.   | Heel and Toe<br>Max O.C. |                       | Slot Size | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+) | Vy (+) | Vx (-)             | Vy (-) |      |      |                 |        |        |
| 5'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 12                                              | 3/8   | 3                         | 9    | 1/2                   | 2 1/2    | 9    | 1/2         | 3 1/2    | 21   | 3/8                         | 3 1/4    | 12   | 1/2                            | 3 1/2    | 21   | 3/8                                                              | 3 1/4    | 11   | 1/2                | 3 1/2                    | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 110  | 0               | 108    | 5'-5"  |
| 6'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/8   | 3                         | 10   | 5/8                   | 3 3/8    | 13   | 5/8         | 4 3/8    | 18   | 3/8                         | 3 1/4    | 13   | 5/8                            | 4 1/2    | 17   | 3/8                                                              | 3 1/4    | 13   | 5/8                | 4 1/2                    | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 130  | 0               | 128    | 6'-5"  |
| 7'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 3/8   | 3                         | 9    | 5/8                   | 3 3/8    | 11   | 5/8         | 4 3/8    | 15   | 3/8                         | 3 1/4    | 15   | 3/4                            | 5 1/2    | 15   | 3/8                                                              | 3 1/4    | 9    | 3/4                | 5 1/2                    | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 150  | 0               | 148    | 7'-5"  |
| 8'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8   | 3                         | N/A  | N/A                   | N/A      | 10   | 5/8         | 4 3/8    | 13   | 3/8                         | 3 1/4    | 13   | 3/4                            | 5 1/2    | 13   | 3/8                                                              | 3 1/4    | 8    | 3/4                | 5 1/2                    | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 170  | 0               | 168    | 8'-5"  |
| 9'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 5/8   | 4 1/2                     | N/A  | N/A                   | N/A      | 8    | 5/8         | 4 3/8    | 12   | 3/8                         | 3 1/4    | N/A  | N/A                            | N/A      | 12   | 3/8                                                              | 3 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 190  | 0               | 188    | 9'-5"  |
| 10'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8   | 4 1/2                     | N/A  | N/A                   | N/A      | 8    | 5/8         | 4 3/8    | 11   | 3/8                         | 3 1/4    | N/A  | N/A                            | N/A      | 11   | 3/8                                                              | 3 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 210  | 0               | 208    | 10'-5" |
| 11'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8   | 4 1/2                     | N/A  | N/A                   | N/A      | 8    | 3/4         | 5 1/4    | 10   | 3/8                         | 3 1/4    | N/A  | N/A                            | N/A      | 10   | 3/8                                                              | 3 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 230  | 0               | 228    | 11'-5" |
| 12'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 15                                              | 3/4   | 5 1/2                     | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | 9    | 3/8                         | 3 1/4    | N/A  | N/A                            | N/A      | 9    | 3/8                                                              | 3 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 250  | 0               | 248    | 12'-5" |
| 13'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4   | 5 1/2                     | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | 8    | 3/8                         | 3 1/4    | N/A  | N/A                            | N/A      | 12   | 1/2                                                              | 4 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 36     | 36                 | 3/16   | 0    | 270  | 0               | 268    | 13'-5" |
| 14'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 10                                              | 5/8   | 4 1/2                     | N/A  | N/A                   | N/A      | 8    | 3/4         | 5 1/4    | 12   | 3/8                         | 3 1/4    | N/A  | N/A                            | N/A      | 12   | 3/8                                                              | 3 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 36                            | 36                         | 7/16" x 5/8"                  | 36               | 36     | 25     | 20                 | 3/16   | 112  | 290  | 82              | 288    | 14'-5" |
| 15'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 16                              | 8                                               | 1/2   | 3 3/4                     | 8    | 5/8                   | 3 3/8    | 9    | 5/8         | 4 3/8    | 11   | 3/8                         | 3 1/4    | 13   | 3/4                            | 5 1/2    | 11   | 3/8                                                              | 3 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 24                            | 36                         | 7/16" x 5/8"                  | 23               | 18     | 8      | 7                  | 3/16   | 400  | 310  | 373             | 309    | 15'-5" |
| 16'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 11                              | 12                                              | 3/4   | 5 1/2                     | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | 11   | 1/2                         | 4 1/4    | N/A  | N/A                            | N/A      | 9    | 1/2                                                              | 4 1/4    | N/A  | N/A                | N/A                      | 8                     | 3/8       | 5 3/4                      | 15                            | 27                         | 7/16" x 5/8"                  | 13               | 9      | 5      | N/A                | 3/16   | 665  | 330  | 641             | 329    | 16'-5" |
| 17'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 9                                               | 5/8   | 4 1/2                     | N/A  | N/A                   | N/A      | 8    | 5/8         | 4 3/8    | 17   | 1/2                         | 4 1/4    | 12   | 3/4                            | 5 1/2    | 14   | 1/2                                                              | 4 1/4    | N/A  | N/A                | N/A                      | 8                     | 1/2       | 6 13/16                    | 32                            | 36                         | 9/16" x 3/4"                  | 36               | 34     | 15     | 11                 | 1/4    | 503  | 348  | 489             | 348    | 17'-5" |
| 18'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 12                          | 1/2                              | 18                              | 12                                              | 3/4   | 5 1/2                     | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | 12   | 1/2                         | 4 1/4    | N/A  | N/A                            | N/A      | 9    | 1/2                                                              | 4 1/4    | N/A  | N/A                | N/A                      | 8                     | 1/2       | 6 13/16                    | 23                            | 35                         | 9/16" x 3/4"                  | 31               | 24     | 11     | 8                  | 1/4    | 705  | 368  | 692             | 368    | 18'-5" |
| 19'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 10                          | 1/2                              | 15                              | 9                                               | 3/4   | 5 1/2                     | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | 9    | 1/2                         | 4 1/4    | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | N/A                | 8                        | 1/2                   | 6 13/16   | 17                         | 26                            | 9/16" x 3/4"               | 23                            | 17               | 8      | 6      | 1/4                | 941    | 388  | 928  | 388             | 19'-5" |        |
| 20'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 13                              | 8                                               | 3/4   | 5 1/2                     | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | 8    | 3/4                         | 6 1/4    | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | N/A                | 8                        | 1/2                   | 6 13/16   | 14                         | 22                            | 9/16" x 3/4"               | 18                            | 13               | 7      | 5      | 1/4                | 1130   | 408  | 1117 | 409             | 20'-5" |        |
| 21'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 12                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | N/A                | 8                        | 1/2                   | 6 13/16   | 12                         | 19                            | 9/16" x 3/4"               | 15                            | 10               | 6      | N/A    | 1/4                | 1313   | 428  | 1300 | 429             | 21'-5" |        |
| 22'-5"                                                                                | 2                         | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 17                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | N/A                | 8                        | 5/8                   | 6 7/8     | 12                         | 19                            | 11/16" x 7/8"              | 22                            | 16               | 8      | 5      | 5/16               | 1491   | 448  | 1479 | 449             | 22'-5" |        |
| 23'-5"                                                                                | 2                         | 1.156 | CP0630          | 546               | 8                           | 5/8                              | 15                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 5/8                      | 6 7/8                 | 11        | 17                         | 11/16" x 7/8"                 | 20                         | 14                            | 7                | 5      | 5/16   | 1667               | 468    | 1655 | 469  | 23'-5"          |        |        |
| 24'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 5/8                      | 6 7/8                 | 10        | 16                         | 11/16" x 7/8"                 | 17                         | 12                            | 6                | N/A    | 5/16   | 1840               | 488    | 1828 | 489  | 24'-5"          |        |        |
| 25'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 5/8                      | 6 7/8                 | 9         | 14                         | 11/16" x 7/8"                 | 15                         | 10                            | 5                | N/A    | 5/16   | 2012               | 508    | 2000 | 510  | 25'-5"          |        |        |
| 26'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 18        | 21                         | 7/8" x 1"                     | 36                         | 32                            | 14               | 10     | 3/8    | 1760               | 527    | 1748 | 528  | 26'-5"          |        |        |
| 27'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 17        | 19                         | 7/8" x 1"                     | 36                         | 29                            | 13               | 9      | 3/8    | 1907               | 547    | 1895 | 548  | 27'-5"          |        |        |
| 28'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 15        | 18                         | 7/8" x 1"                     | 35                         | 26                            | 12               | 9      | 3/8    | 2053               | 568    | 2041 | 568  | 28'-5"          |        |        |
| 29'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 14        | 16                         | 7/8" x 1"                     | 33                         | 24                            | 11               | 8      | 3/8    | 2199               | 588    | 2187 | 588  | 29'-5"          |        |        |
| 30'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 13        | 15                         | 7/8" x 1"                     | 31                         | 22                            | 10               | 7      | 3/8    | 2345               | 608    | 2333 | 608  | 30'-5"          |        |        |
| 31'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 13        | 14                         | 7/8" x 1"                     | 29                         | 20                            | 10               | 7      | 3/8    | 2491               | 628    | 2480 | 629  | 31'-5"          |        |        |
| 32'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 12        | 14                         | 7/8" x 1"                     | 27                         | 19                            | 9                | 7      | 3/8    | 2638               | 648    | 2627 | 649  | 32'-5"          |        |        |
| 33'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 11        | 13                         | 7/8" x 1"                     | 25                         | 17                            | 9                | 6      | 3/8    | 2786               | 669    | 2775 | 669  | 33'-5"          |        |        |
| 34'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 11        | 12                         | 7/8" x 1"                     | 23                         | 16                            | 8                | 6      | 3/8    | 2935               | 689    | 2923 | 689  | 34'-5"          |        |        |
| 35'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 5                           | 3/4                              | 12                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 7 1/2                 | 10        | 12                         | 7/8" x 1"                     | 21                         | 15                            | 8                | 6      | 3/8    | 3084               | 709    | 3073 | 710  | 35'-5"          |        |        |
| 36'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 12                              | N/A                                             | N/A   | N/A                       | N/A  | N/A                   | N/A      | N/A  | N/A         | N/A      | N/A  | N/A                         | N/A      | N/A  | N/A                            | N/A      | N/A  | N/A                                                              | N/A      | N/A  | 8                  | 3/4                      | 9 1/4                 | 10        | 11                         | 7/8" x 1"                     | 20                         | 13                            | 8                | 5      | 3/8    | 3235               | 730    | 3    |      |                 |        |        |

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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0405 0.022 Minimum Thickness Galvanized or Stainless Steel - 40 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |        |  |  |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|---------|--------|--------|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |         |        |        |  |  |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |         |        |        |  |  |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |         |        |        |  |  |
| 5'-5"                                                                                                 | 344*              |                       | N/A   |                     | 24                | 2 3/8 | 4                   | 23                     | 2 3/8 | 3 3/4               | 24                  | 2 1/2 | 4                   | 31          | 2 1/2 | 4                   | 23                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 21                                        | 1 7/8 | 3 1/4               | 23                                     | 2 1/2 | 4                   | 33                          | 2 1/2 | 4                   | 33                                  | 2 1/2 | 4                   | 5 3/4                 | 5'-5"           |         |        |        |  |  |
| 6'-5"                                                                                                 | 344*              |                       | N/A   |                     | 22                | 2 3/8 | 4                   | 21                     | 2 3/8 | 3 3/4               | 22                  | 2 1/2 | 4                   | 29          | 2 1/2 | 4                   | 21                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            | 36                                               |                                          | N/A   |                     | 19                                        | 1 7/8 | 3 1/4               | 22                                     | 2 1/2 | 4                   | 30                          | 2 1/2 | 4                   | 31                                  | 2 1/2 | 4                   | 5 3/4                 | 6'-5"           |         |        |        |  |  |
| 7'-5"                                                                                                 | 344*              |                       | N/A   |                     | 20                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 27          | 2 1/2 | 4                   | 19                  | 2 1/4 | 4                   | 33         | 3 1/2 | 4 3/4               | 36                                            | 34                                               |                                          | N/A   |                     | 18                                        | 1 7/8 | 3 1/4               | 20                                     | 2 1/2 | 4                   | 28                          | 2 1/2 | 4                   | 28                                  | 2 1/2 | 4                   | 5 3/4                 | 7'-5"           |         |        |        |  |  |
| 8'-5"                                                                                                 | 344*              |                       | N/A   |                     | 19                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 25          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 29         | 3 1/2 | 4 3/4               | 36                                            | 30                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 26                          | 2 1/2 | 4                   | 27                                  | 2 1/2 | 4                   | 5 3/4                 | 8'-5"           |         |        |        |  |  |
| 9'-5"                                                                                                 | 344*              |                       | N/A   |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            | 27                                               |                                          | N/A   |                     | 16                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 25                          | 2 1/2 | 4                   | 25                                  | 2 1/2 | 4                   | 5 3/4                 | 9'-5"           |         |        |        |  |  |
| 10'-5"                                                                                                | 344*              |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            | 24                                               |                                          | N/A   |                     | 15                                        | 1 7/8 | 3 1/4               | 17                                     | 2 1/2 | 4                   | 23                          | 2 1/2 | 4                   | 24                                  | 2 1/2 | 4                   | 5 3/4                 | 10'-5"          |         |        |        |  |  |
| 11'-5"                                                                                                | 344*              |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 29                                            | 22                                               |                                          | N/A   |                     | 14                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 23                                  | 2 1/2 | 4                   | 5 3/4                 | 11'-5"          |         |        |        |  |  |
| 12'-5"                                                                                                | 344*              |                       | N/A   |                     | 16                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 19         | 3 1/2 | 4 3/4               | 26                                            | 20                                               |                                          | N/A   |                     | 13                                        | 1 7/8 | 3 1/4               | 15                                     | 2 1/2 | 4                   | 21                          | 2 1/2 | 4                   | 22                                  | 2 1/2 | 4                   | 5 3/4                 | 12'-5"          |         |        |        |  |  |
| 13'-5"                                                                                                | 344*              |                       | N/A   |                     | 15                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 24                                            | 19                                               |                                          | N/A   |                     | 13                                        | 1 7/8 | 3 1/4               | 15                                     | 2 1/2 | 4                   | 21                          | 2 1/2 | 4                   | 21                                  | 2 1/2 | 4                   | 5 3/4                 | 13'-5"          |         |        |        |  |  |
| 14'-5"                                                                                                | 344               |                       | N/A   |                     | 17                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 24         | 3 1/2 | 4 3/4               | 31                                            | 24                                               |                                          | N/A   |                     | 14                                        | 1 7/8 | 3 1/4               | 18                                     | 2 1/2 | 4                   | 25                          | 2 1/2 | 4                   | 25                                  | 2 1/2 | 4                   | 5 3/4                 | 14'-5"          |         |        |        |  |  |
| 15'-5"                                                                                                | 344               |                       | N/A   |                     | 15                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 19         | 3 1/2 | 4 3/4               | 36                                            | 35                                               |                                          | N/A   |                     | 10                                        | 1 7/8 | 3 1/4               | 16                                     | 2 1/2 | 4                   | 22                          | 2 1/2 | 4                   | 22                                  | 2 1/2 | 4                   | 5 3/4                 | 15'-5"          |         |        |        |  |  |
| 16'-5"                                                                                                | 344               |                       | N/A   |                     | 9                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 12                  | 2 1/2 | 4                   | 15          | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 12         | 3 1/2 | 4 3/4               | 28                                            | 19                                               |                                          | N/A   |                     |                                           | N/A   |                     | 12                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 18                                  | 3 1/4 | 5                   | 5 3/4                 | 16'-5"          |         |        |        |  |  |
| 17'-5"                                                                                                | 445               | 23                    | 3 7/8 | 6                   | 20                | 3 5/8 | 6                   | 19                     | 3 3/4 | 6                   | 22                  | 3 3/4 | 5 1/2               | 26          | 4 1/4 | 6 3/4               | 21                  | 4     | 6                   | 30         | 4 1/4 | 5 1/2               | 36                                            | 36                                               |                                          |       | 23                  | 3 7/8                                     | 6     | 16                  | 2 1/2                                  | 4     | 22                  | 3 3/4                       | 5 1/2 | 25                  | 4 1/4                               | 6 3/4 | 29                  | 4                     | 6 1/4           | 6 13/16 | 17'-5" |        |  |  |
| 18'-5"                                                                                                | 445               | 19                    | 3 7/8 | 6                   | 17                | 3 5/8 | 6                   | 16                     | 3 3/4 | 6                   | 19                  | 3 3/4 | 5 1/2               | 22          | 4 1/4 | 6 3/4               | 17                  | 4     | 6                   | 22         | 4 1/4 | 5 1/2               | 36                                            | 36                                               |                                          |       | 18                  | 3 7/8                                     | 6     | 10                  | 2 1/2                                  | 4     | 19                  | 3 3/4                       | 5 1/2 | 20                  | 4 1/4                               | 6 3/4 | 25                  | 4                     | 6 1/4           | 6 13/16 | 18'-5" |        |  |  |
| 19'-5"                                                                                                | 445               | 16                    | 3 7/8 | 6                   | 11                | 3 5/8 | 6                   | 13                     | 3 3/4 | 6                   | 15                  | 3 3/4 | 5 1/2               | 19          | 4 1/4 | 6 3/4               | 13                  | 4     | 6                   | 17         | 4 1/4 | 5 1/2               | 36                                            | 31                                               |                                          |       | 14                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 16                  | 3 3/4                       | 5 1/2 | 14                  | 4 1/4                               | 6 3/4 | 21                  | 4                     | 6 1/4           | 6 13/16 | 19'-5" |        |  |  |
| 20'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 35                                            | 25                                               |                                          |       | 12                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 13                  | 3 3/4                       | 5 1/2 | 10                  | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 20'-5" |        |  |  |
| 21'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 15          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 29                                            | 20                                               |                                          |       | 10                  | 3 7/8                                     | 6     |                     | N/A                                    |       | 9                   | 3 3/4                       | 5 1/2 | 9                   | 4 1/4                               | 6 3/4 | 7                   | 4                     | 6 1/4           | 6 13/16 | 21'-5" |        |  |  |
| 22'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   |                     | N/A   |                     | 16         | 5     | 6 1/4               | 36                                            | 34                                               |                                          |       | 16                  | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 10                  | 4 1/2                       | 6     |                     | N/A                                 |       | 18                  | 5 1/2                 | 8 1/2           | 6 7/8   | 22'-5" |        |  |  |
| 23'-5"                                                                                                | 546               | 11                    | 5 1/8 | 7 7/8               | 8                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   |                     | N/A   |                     | 12         | 5     | 6 1/4               | 36                                            | 30                                               |                                          |       | 10                  | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 8                   | 4 1/2                       | 6     |                     | N/A                                 |       | 10                  | 5 1/2                 | 8 1/2           | 6 7/8   | 23'-5" |        |  |  |
| 24'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 6                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   |                     | 9          | 5     | 6 1/4               | 36                                            | 26                                               |                                          |       | 9                   | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 6                   | 4 1/2                       | 6     |                     | N/A                                 |       | 9                   | 5 1/2                 | 8 1/2           | 6 7/8   | 24'-5" |        |  |  |
| 25'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 8           | 5     | 7                   |                     | N/A   |                     | 6          | 5     | 6 1/4               | 33                                            | 23                                               |                                          |       | 7                   | 5 1/8                                     | 7 7/8 |                     | N/A                                    |       | 5                   | 4 1/2                       | 6     |                     | N/A                                 |       | 7                   | 5 1/2                 | 8 1/2           | 6 7/8   | 25'-5" |        |  |  |
| 26'-5"                                                                                                | 548               | 17                    | 5 3/4 | 8 3/4               | 11                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 19                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 20         | 6 5/8 | 7 7/8               | 36                                            | 36                                               |                                          |       | 19                  | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       | 11                  | 5 1/2                       | 8     |                     | N/A                                 |       | 26                  | 6 1/4                 | 10              | 7 1/2   | 26'-5" |        |  |  |
| 27'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 14         | 6 5/8 | 7 7/8               | 36                                            | 36                                               |                                          |       | 17                  | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       | 10                  | 5 1/2                       | 8     |                     | N/A                                 |       | 25                  | 6 1/4                 | 10              | 7 1/2   | 27'-5" |        |  |  |
| 28'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 13         | 6 5/8 | 7 7/8               | 36                                            | 36                                               |                                          |       | 12                  | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       | 9                   | 5 1/2                       | 8     |                     | N/A                                 |       | 11                  | 6 1/4                 | 10              | 7 1/2   | 28'-5" |        |  |  |
| 29'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 12         | 6 5/8 | 7 7/8               | 36                                            | 36                                               |                                          |       | 11                  | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       | 8                   | 5 1/2                       | 8     |                     | N/A                                 |       | 10                  | 6 1/4                 | 10              | 7 1/2   | 29'-5" |        |  |  |
| 30'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   |                     | 10         | 6 5/8 | 7 7/8               | 36                                            | 36                                               |                                          |       | 10                  | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       | 7                   | 5 1/2                       | 8     |                     | N/A                                 |       | 9                   | 6 1/4                 | 10              | 7 1/2   | 30'-5" |        |  |  |
| 31'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 7          | 6 5/8 | 7 7/8               | 36                                            | 33                                               |                                          |       | 9                   | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       | 6                   | 5 1/2                       | 8     |                     | N/A                                 |       | 8                   | 6 1/4                 | 10              | 7 1/2   | 31'-5" |        |  |  |
| 32'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 6                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 5          | 6 5/8 | 7 7/8               | 36                                            | 30                                               |                                          |       | 8                   | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       |                     | N/A                         |       |                     | N/A                                 |       | 7                   | 6 1/4                 | 10              | 7 1/2   | 32'-5" |        |  |  |
| 33'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            | 28                                               |                                          |       | 8                   | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       |                     | N/A                         |       |                     | N/A                                 |       | 6                   | 6 1/4                 | 10              | 7 1/2   | 33'-5" |        |  |  |
| 34'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 6           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | N/A   |                     | 36                                            | 26                                               |                                          |       | 7                   | 5 3/4                                     | 8 3/4 |                     | N/A                                    |       |                     | N/A                         |       |                     | N/A                                 |       | 5                   | 6 1/4                 | 10              | 7 1/2   | 34'-5" |        |  |  |
| 35'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     |             | N/A   |                     |                     | N/A   |                     |            | N/A   |                     | 35                                            | 24                                               |                                          |       |                     | N/A                                       |       |                     |                                        | N/A   |                     |                             | N/A   |                     |                                     | N/A   |                     |                       | N/A             |         | 7 1/2  | 35'-5" |  |  |
| 36'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 10         | 6 5/8 | 7 7/8               | 36                                            | 34                                               |                                          |       | 10                  | 5 3/4                                     | 8 3/4 | 8                   | 4 1/2                                  | 6     | 8                   | 5 1/2                       | 8     |                     | N/A                                 |       | 8                   | 6 1/4                 | 10              | 9 1/4   | 36'-5" |        |  |  |



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TITLE:

WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY:

KAD

SIZE:

B

SCALE:

AS NOTED

SHEET:

51/58

DWG NO:

ES-16-137-CIW

Unless otherwise specified,  
dimensions are in inches &  
tolerances are:  
  
0.000 = +/- 0.031  
FRACTIONAL = +/- 1/32  
ANGLES = +/- 1/2 DEG

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| A    | REVISED WINDLOAD TABLES | 08/12/2026 | KAD | 2398   |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 50 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                |                                                                  |       |                                             |      |               |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |        |                    |      |     |        |                 |
|---------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|-----------------------------|------|-------|--------------------------------|------------------------------------------------------------------|-------|---------------------------------------------|------|---------------|--------------------------|-----------|-----------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|-------------|--------|--------|--------|--------------------|------|-----|--------|-----------------|
| Guide Construction                                                                    |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                | Steel (Wall anchors are the same diameter as assembly fasteners) |       |                                             |      |               |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |        |                    |      |     |        |                 |
| D.B.G.<br>Up To                                                                       | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie<br>Titan |      |       | Hilti KH-EZ Stainless<br>Steel |                                                                  |       | Simpson Strong-Tie<br>Titan Stainless Steel |      |               | Through<br>Bolting       |           | Min. Edge<br>Distance | Welded                     |                               | Through Bolt               |                               |                  | Tapped Bolt |        |        |        | Superimposed Loads |      |     |        | D.B.G.<br>Up To |
|                                                                                       |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia.                                                             | Embed | Max O.C.                                    | Dia. | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size |                       | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Min<br>Thickness | Vx (+)      | Vy (+) | Vx (-) | Vy (-) |                    |      |     |        |                 |
| 5'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/8  | 3     | 9                         | 5/8  | 3 3/8 | 12                    | 5/8  | 4 3/8 | 17          | 3/8  | 3 1/4 | 12                          | 5/8  | 4 1/2 | 16                             | 3/8                                                              | 3 1/4 | 12                                          | 5/8  | 4 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 138                | 0    | 135 | 5'-5"  |                 |
| 6'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 3/8  | 3     | 8                         | 5/8  | 3 3/8 | 10                    | 5/8  | 4 3/8 | 14          | 3/8  | 3 1/4 | 13                          | 3/4  | 5 1/2 | 14                             | 3/8                                                              | 3 1/4 | 9                                           | 3/4  | 5 1/2         | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 163                | 0    | 160 | 6'-5"  |                 |
| 7'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 1/2  | 3 3/4 | N/A                       | N/A  | N/A   | 9                     | 5/8  | 4 3/8 | 12          | 3/8  | 3 1/4 | 12                          | 3/4  | 5 1/2 | 12                             | 3/8                                                              | 3 1/4 | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 188                | 0    | 185 | 7'-5"  |                 |
| 8'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 9                                               | 5/8  | 4 1/2 | N/A                       | N/A  | N/A   | 8                     | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 | N/A                         | N/A  | N/A   | 10                             | 3/8                                                              | 3 1/4 | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 213                | 0    | 210 | 8'-5"  |                 |
| 9'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2 | N/A                       | N/A  | N/A   | 8                     | 3/4  | 5 1/4 | 9           | 3/8  | 3 1/4 | N/A                         | N/A  | N/A   | 9                              | 3/8                                                              | 3 1/4 | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 238                | 0    | 235 | 9'-5"  |                 |
| 10'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 8                     | 3/8  | 3 1/4 | N/A         | N/A  | N/A   | 12                          | 1/2  | 4 1/4 | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 263                | 0    | 260 | 10'-5" |                 |
| 11'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 8                     | 3/8  | 3 1/4 | N/A         | N/A  | N/A   | 11                          | 1/2  | 4 1/4 | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0      | 288                | 0    | 285 | 11'-5" |                 |
| 12'-5"                                                                                | 1 1/4                     | 0.469 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 12                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 12                    | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | 10                          | 1/2  | 4 1/4 | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 35     | 3/16   | 11     | 312                | 0    | 310 | 12'-5" |                 |
| 13'-5"                                                                                | 1 3/8                     | 0.594 | CP0629          | 344               | 12                          | 3/8                              | 18                              | 8                                               | 3/8  | 3     | N/A                       | N/A  | N/A   | 8                     | 5/8  | 4 3/8 | 15          | 3/8  | 3 1/4 | N/A                         | N/A  | N/A   | 15                             | 3/8                                                              | 3 1/4 | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 28               | 13          | 11     | 3/16   | 238    | 337                | 198  | 336 | 13'-5" |                 |
| 14'-5"                                                                                | 1 1/2                     | 0.719 | CP0629          | 344               | 12                          | 3/8                              | 14                              | 9                                               | 5/8  | 4 1/2 | N/A                       | N/A  | N/A   | 8                     | 5/8  | 4 3/8 | 10          | 3/8  | 3 1/4 | N/A                         | N/A  | N/A   | 9                              | 3/8                                                              | 3 1/4 | N/A                                         | N/A  | N/A           | 8                        | 3/8       | 5 3/4                 | 22                         | 36                            | 7/16" x 5/8"               | 20                            | 16               | 7           | 6      | 3/16   | 440    | 362                | 407  | 361 | 14'-5" |                 |
| 15'-5"                                                                                | 1 3/4                     | 0.969 | CP0629          | 445               | 10                          | 1/2                              | 18                              | 11                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 9                     | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | 9                           | 1/2  | 4 1/4 | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 1/2       | 6 13/16               | 20                         | 31                            | 9/16" x 3/4"               | 28                            | 22               | 10          | 7      | 1/4    | 780    | 410                | 760  | 411 | 15'-5" |                 |
| 16'-5"                                                                                | 1 3/4                     | 0.969 | CP0629          | 445               | 10                          | 1/2                              | 18                              | 11                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 9                     | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | 9                           | 1/2  | 4 1/4 | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 1/2       | 6 13/16               | 20                         | 31                            | 9/16" x 3/4"               | 28                            | 22               | 10          | 7      | 1/4    | 780    | 410                | 760  | 411 | 16'-5" |                 |
| 17'-5"                                                                                | 2                         | 1.219 | CP0629          | 445               | 10                          | 1/2                              | 16                              | 10                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 9                     | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | 8                           | 1/2  | 4 1/4 | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 1/2       | 6 13/16               | 19                         | 29                            | 9/16" x 3/4"               | 26                            | 20               | 9           | 6      | 1/4    | 835    | 435                | 819  | 435 | 17'-5" |                 |
| 18'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 13                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | 8                     | 3/4  | 6 1/4 | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 1/2       | 6 13/16               | 14                         | 22                            | 9/16" x 3/4"               | 19                            | 13               | 7           | 5      | 1/4    | 1116   | 460                | 1101 | 461 | 18'-5" |                 |
| 19'-5"                                                                                | 2                         | 1.156 | CP0630          | 445               | 8                           | 1/2                              | 11                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 1/2       | 6 13/16               | 12                         | 18                            | 9/16" x 3/4"               | 14                            | 10               | 5           | N/A    | 1/4    | 1343   | 485                | 1327 | 486 | 19'-5" |                 |
| 20'-5"                                                                                | 2                         | 1.156 | CP0630          | 446               | 8                           | 5/8                              | 16                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | N/A                            | N/A                                                              | N/A   | N/A                                         | N/A  | N/A           | 8                        | 5/8       | 6 7/8                 | 12                         | 18                            | 11/16" x 7/8"              | 21                            | 15               | 7           | 5      | 5/16   | 1563   | 510                | 1547 | 511 | 20'-5" |                 |
| 21'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 14                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 5/8                                                              | 6 7/8 | 10                                          | 16   | 11/16" x 7/8" | 18                       | 12        | 11/16" x 7/8"         | 10                         | 16                            | 11/16" x 7/8"              | 18                            | 12               | 6           | N/A    | 5/16   | 1777   | 535                | 1762 | 536 | 21'-5" |                 |
| 22'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 5/8                                                              | 6 7/8 | 9                                           | 14   | 11/16" x 7/8" | 15                       | 14        | 11/16" x 7/8"         | 9                          | 14                            | 11/16" x 7/8"              | 15                            | 10               | 6           | N/A    | 5/16   | 1989   | 560                | 1974 | 561 | 22'-5" |                 |
| 23'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 18                                          | 20   | 7/8" x 1"     | 36                       | 31        | 7/8" x 1"             | 18                         | 20                            | 7/8" x 1"                  | 36                            | 31               | 14          | 10     | 3/8    | 1756   | 584                | 1741 | 584 | 23'-5" |                 |
| 24'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 18                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 16                                          | 19   | 7/8" x 1"     | 36                       | 28        | 7/8" x 1"             | 16                         | 19                            | 7/8" x 1"                  | 36                            | 28               | 13          | 9      | 3/8    | 1935   | 609                | 1920 | 610 | 24'-5" |                 |
| 25'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 15                                          | 17   | 7/8" x 1"     | 34                       | 25        | 7/8" x 1"             | 15                         | 17                            | 7/8" x 1"                  | 34                            | 25               | 12          | 8      | 3/8    | 2113   | 634                | 2098 | 635 | 25'-5" |                 |
| 26'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 14                                          | 16   | 7/8" x 1"     | 31                       | 23        | 7/8" x 1"             | 14                         | 16                            | 7/8" x 1"                  | 31                            | 23               | 11          | 8      | 3/8    | 2289   | 659                | 2275 | 660 | 26'-5" |                 |
| 27'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 15                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 13                                          | 15   | 7/8" x 1"     | 29                       | 20        | 7/8" x 1"             | 13                         | 15                            | 7/8" x 1"                  | 29                            | 20               | 10          | 7      | 3/8    | 2466   | 685                | 2452 | 685 | 27'-5" |                 |
| 28'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 12                                          | 14   | 7/8" x 1"     | 26                       | 18        | 7/8" x 1"             | 12                         | 14                            | 7/8" x 1"                  | 26                            | 18               | 9           | 7      | 3/8    | 2643   | 710                | 2629 | 710 | 28'-5" |                 |
| 29'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 11                                          | 13   | 7/8" x 1"     | 24                       | 17        | 7/8" x 1"             | 11                         | 13                            | 7/8" x 1"                  | 24                            | 17               | 9           | 6      | 3/8    | 2820   | 735                | 2806 | 736 | 29'-5" |                 |
| 30'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 12                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 7 1/2 | 10                                          | 12   | 7/8" x 1"     | 22                       | 15        | 7/8" x 1"             | 10                         | 12                            | 7/8" x 1"                  | 22                            | 15               | 8           | 6      | 3/8    | 2998   | 760                | 2984 | 761 | 30'-5" |                 |
| 31'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 12                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 9 1/4 | 10                                          | 11   | 7/8" x 1"     | 20                       | 14        | 7/8" x 1"             | 10                         | 11                            | 7/8" x 1"                  | 20                            | 14               | 8           | 5      | 3/8    | 3177   | 786                | 3163 | 786 | 31'-5" |                 |
| 32'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 11                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4                                                              | 9 1/4 | 9                                           | 11   | 7/8" x 1"     | 19                       | 13        | 7/8" x 1"             | 9                          | 11                            | 7/8" x 1"                  | 19                            | 13               | 7           | 5      | 3/8    | 3357   | 811                | 3343 | 812 | 32'-5" |                 |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 50 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|-------|---------------------|-----------------------|-----------------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |       |                     |                       |                 |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt T22 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |       |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed | Min. Wall<br>Thick. |                       |                 |        |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 21                | 2 3/8 | 4                   | 20                     | 2 3/8 | 3 3/4               | 21                  | 2 1/2 | 4                   | 28          | 2 1/2 | 4                   | 20                  | 2 1/4 | 4                   | 36         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 36                                       |       |                     |                                           | 18    | 1 7/8               | 3 1/4                                  | 21    | 2 1/2               | 4                           | 29    | 2 1/2               | 4                                   | 30    | 2 1/2               | 4                     | 5 3/4           | 5'-5"  |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 19                | 2 3/8 | 4                   | 19                     | 2 3/8 | 3 3/4               | 20                  | 2 1/2 | 4                   | 26          | 2 1/2 | 4                   | 17                  | 2 1/4 | 4                   | 30         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 32                                       |       |                     | 17                                        | 1 7/8 | 3 1/4               | 19                                     | 2 1/2 | 4                   | 27                          | 2 1/2 | 4                   | 27                                  | 2 1/2 | 4                   | 5 3/4                 | 6'-5"           |        |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 24          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 26         | 3 1/2 | 4 3/4               | 35                                            |                                                  | 27                                       |       | 16                  | 1 7/8                                     | 3 1/4 | 18                  | 2 1/2                                  | 4     | 25                  | 2 1/2                       | 4     | 25                  | 2 1/2                               | 4     | 5 3/4               | 7'-5"                 |                 |        |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 17                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 17                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 13                  | 2 1/4 | 4                   | 23         | 3 1/2 | 4 3/4               | 31                                            |                                                  | 24                                       |       | 15                  | 1 7/8                                     | 3 1/4 | 17                  | 2 1/2                                  | 4     | 23                  | 2 1/2                       | 4     | 24                  | 2 1/2                               | 4     | 5 3/4               | 8'-5"                 |                 |        |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 15                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 21          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 20         | 3 1/2 | 4 3/4               | 28                                            |                                                  | 21                                       |       | 14                  | 1 7/8                                     | 3 1/4 | 16                  | 2 1/2                                  | 4     | 22                  | 2 1/2                       | 4     | 22                  | 2 1/2                               | 4     | 5 3/4               | 9'-5"                 |                 |        |
| 10'-5"                                                                                                | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 25                                            |                                                  | 19                                       |       | 13                  | 1 7/8                                     | 3 1/4 | 15                  | 2 1/2                                  | 4     | 21                  | 2 1/2                       | 4     | 21                  | 2 1/2                               | 4     | 5 3/4               | 10'-5"                |                 |        |
| 11'-5"                                                                                                | 344*              | N/A                   |       |                     | 14                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 23                                            |                                                  | 18                                       |       | 13                  | 1 7/8                                     | 3 1/4 | 14                  | 2 1/2                                  | 4     | 20                  | 2 1/2                       | 4     | 20                  | 2 1/2                               | 4     | 5 3/4               | 11'-5"                |                 |        |
| 12'-5"                                                                                                | 344               | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 21                                            |                                                  | 17                                       |       | 12                  | 1 7/8                                     | 3 1/4 | 14                  | 2 1/2                                  | 4     | 19                  | 2 1/2                       | 4     | 20                  | 2 1/2                               | 4     | 5 3/4               | 12'-5"                |                 |        |
| 13'-5"                                                                                                | 344               | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 18                     | 2 3/8 | 3 3/4               | 19                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 16                  | 2 1/4 | 4                   | 24         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 28                                       |       | 13                  | 1 7/8                                     | 3 1/4 | 18                  | 2 1/2                                  | 4     | 25                  | 2 1/2                       | 4     | 25                  | 2 1/2                               | 4     | 5 3/4               | 13'-5"                |                 |        |
| 14'-5"                                                                                                | 344               | N/A                   |       |                     | 13                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 11                  | 2 1/4 | 4                   | 17         | 3 1/2 | 4 3/4               | 36                                            |                                                  | 31                                       |       | 8                   | 1 7/8                                     | 3 1/4 | 15                  | 2 1/2                                  | 4     | 20                  | 2 1/2                       | 4     | 20                  | 2 1/2                               | 4     | 5 3/4               | 14'-5"                |                 |        |
| 15'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 20         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 17                  | 3 7/8                                     | 6     |                     | N/A                                    | 18    | 3 3/4               | 5 1/2                       | 18    | 4 1/4               | 6 3/4                               | 23    | 4                   | 6 1/4                 | 6 13/16         | 15'-5" |
| 16'-5"                                                                                                | 445               | 18                    | 3 7/8 | 6                   | 16                | 3 5/8 | 6                   | 15                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 21          | 4 1/4 | 6 3/4               | 15                  | 4     | 6                   | 20         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 36                                       |       | 17                  | 3 7/8                                     | 6     |                     | N/A                                    | 18    | 3 3/4               | 5 1/2                       | 18    | 4 1/4               | 6 3/4                               | 23    | 4                   | 6 1/4                 | 6 13/16         | 16'-5" |
| 17'-5"                                                                                                | 445               | 17                    | 3 7/8 | 6                   | 14                | 3 5/8 | 6                   | 14                     | 3 3/4 | 6                   | 17                  | 3 3/4 | 5 1/2               | 20          | 4 1/4 | 6 3/4               | 14                  | 4     | 6                   | 19         | 4 1/4 | 5 1/2               | 36                                            |                                                  | 35                                       |       | 16                  | 3 7/8                                     | 6     |                     | N/A                                    | 17    | 3 3/4               | 5 1/2                       | 16    | 4 1/4               | 6 3/4                               | 22    | 4                   | 6 1/4                 | 6 13/16         | 17'-5" |
| 18'-5"                                                                                                | 445               | 13                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 17          | 4 1/4 | 6 3/4               | 10                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 35                                            |                                                  | 24                                       |       | 11                  | 3 7/8                                     | 6     |                     | N/A                                    | 13    | 3 3/4               | 5 1/2                       | 10    | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 18'-5" |
| 19'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 7                 | 3 5/8 | 6                   | 8                      | 3 3/4 | 6                   | 7                   | 3 3/4 | 5 1/2               | 9           | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 12         | 4 1/4 | 5 1/2               | 28                                            |                                                  | 19                                       |       | 9                   | 3 7/8                                     | 6     |                     | N/A                                    | 9     | 3 3/4               | 5 1/2                       | 9     | 4 1/4               | 6 3/4                               | 7     | 4                   | 6 1/4                 | 6 13/16         | 19'-5" |
| 20'-5"                                                                                                | 446               | 16                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 9                      | 4 5/8 | 7                   | 9                   | 4 1/2 | 6                   | 16          | 5     | 7                   |                     | N/A   | 13                  | 5          | 6 1/4 | 36                  |                                               | 32                                               |                                          | 11    | 5 1/8               | 7 7/8                                     |       | N/A                 | 9                                      | 5 1/2 | 8 1/2               |                             | N/A   | 10                  | 5 1/2                               | 8 1/2 | 6 7/8               | 20'-5"                |                 |        |
| 21'-5"                                                                                                | 546               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   |                     | N/A   | 10                  | 5          | 6 1/4 | 36                  |                                               | 27                                               |                                          | 9     | 5 1/8               | 7 7/8                                     |       | N/A                 | 7                                      | 4 1/2 | 6                   |                             | N/A   | 9                   | 5 1/2                               | 8 1/2 | 6 7/8               | 21'-5"                |                 |        |
| 22'-5"                                                                                                | 546               | 8                     | 5 1/8 | 7 7/8               | 5                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 5                   | 4 1/2 | 6                   | 8           | 5     | 7                   |                     | N/A   | 6                   | 5          | 6 1/4 | 33                  |                                               | 23                                               |                                          | 7     | 5 1/8               | 7 7/8                                     |       | N/A                 | 5                                      | 4 1/2 | 6                   |                             | N/A   | 7                   | 5 1/2                               | 8 1/2 | 6 7/8               | 22'-5"                |                 |        |
| 23'-5"                                                                                                | 548               | 17                    | 5 3/4 | 8 3/4               | 10                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 19                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               |                     | N/A   | 20                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36                                               |                                          | 18    | 5 3/4               | 8 3/4                                     |       | N/A                 | 11                                     | 5 1/2 | 8                   |                             | N/A   | 26                  | 6 1/4                               | 10    | 7 1/2               | 23'-5"                |                 |        |
| 24'-5"                                                                                                | 548               | 13                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   |                        | N/A   |                     | 11                  | 5 1/2 | 8                   | 18          | 6 1/4 | 8 1/8               |                     | N/A   | 13                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36                                               |                                          | 16    | 5 3/4               | 8 3/4                                     |       | N/A                 | 10                                     | 5 1/2 | 8                   |                             | N/A   | 24                  | 6 1/4                               | 10    | 7 1/2               | 24'-5"                |                 |        |
| 25'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 8                 | 5 1/2 | 8                   |                        | N/A   |                     | 9                   | 5 1/2 | 8                   | 11          | 6 1/4 | 8 1/8               |                     | N/A   | 13                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36                                               |                                          | 12    | 5 3/4               | 8 3/4                                     |       | N/A                 | 8                                      | 5 1/2 | 8                   |                             | N/A   | 11                  | 6 1/4                               | 10    | 7 1/2               | 25'-5"                |                 |        |
| 26'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               |                     | N/A   | 10                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36                                               |                                          | 11    | 5 3/4               | 8 3/4                                     |       | N/A                 | 7                                      | 5 1/2 | 8                   |                             | N/A   | 10                  | 6 1/4                               | 10    | 7 1/2               | 26'-5"                |                 |        |
| 27'-5"                                                                                                | 648               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   | 7                   | 6 5/8      | 7 7/8 | 36                  |                                               | 33                                               |                                          | 9     | 5 3/4               | 8 3/4                                     |       | N/A                 | 6                                      | 5 1/2 | 8                   |                             | N/A   | 8                   | 6 1/4                               | 10    | 7 1/2               | 27'-5"                |                 |        |
| 28'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               |                     | N/A   |                     | N/A        |       | 36                  |                                               | 30                                               |                                          | 8     | 5 3/4               | 8 3/4                                     |       | N/A                 |                                        | N/A   |                     | N/A                         | 7     | 6 1/4               | 10                                  | 7 1/2 | 28'-5"              |                       |                 |        |
| 29'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 6           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 36         |       | 27                  |                                               | 7                                                | 5 3/4                                    | 8 3/4 |                     | N/A                                       |       | N/A                 |                                        | N/A   | 6                   | 6 1/4                       | 10    | 7 1/2               | 29'-5"                              |       |                     |                       |                 |        |
| 30'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     |                     | N/A   |                     | 5           | 6 1/4 | 8 1/8               |                     | N/A   |                     | 36         |       | 25                  |                                               |                                                  |                                          | N/A   |                     | N/A                                       |       | N/A                 |                                        | N/A   | 5                   | 6 1/4                       | 10    | 7 1/2               | 30'-5"                              |       |                     |                       |                 |        |
| 31'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               |                   | N/A   |                     |                        | N/A   |                     | 8                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | 36    |                     | 35                                            |                                                  | 10                                       | 5 3/4 | 8 3/4               |                                           | 8     | 4 1/2               | 6                                      |       | 8                   | 5 1/2                       | 8     |                     | N/A                                 | 9     | 6 1/4               | 10                    | 9 1/4           | 31'-5" |
| 32'-5"                                                                                                | DC6               | 9                     | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   |                        | N/A   |                     | 7                   | 5 1/2 | 8                   | 8           | 6 1/4 | 8 1/8               |                     | N/A   |                     |            | 36    |                     | 32                                            |                                                  | 9                                        | 5 3/4 | 8 3/4               | 7                                         | 4 1/2 | 6                   | 7                                      | 5 1/2 | 8                   |                             | N/A   | 8                   | 6 1/4                               | 10    | 9 1/4               | 32'-5"                |                 |        |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 60 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |      |       |                          |       |       |                             |         |                                                                  |                                          |               |              |                 |              |                    |              |          |              |               |                       |             |                         |                            |                         |                            |               |        |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|--------------------------|-------|-------|-----------------------------|---------|------------------------------------------------------------------|------------------------------------------|---------------|--------------|-----------------|--------------|--------------------|--------------|----------|--------------|---------------|-----------------------|-------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |      |       |                          |       |       |                             |         | Steel (Wall anchors are the same diameter as assembly fasteners) |                                          |               |              |                 |              |                    |              |          |              |               |                       |             |                         |                            |                         |                            |               |        |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |       |       | Hilti KH-EZ Stainless Steel |         |                                                                  | Simpson Strong-Tie Titen Stainless Steel |               |              | Through Bolting |              | Min. Edge Distance | Welded       |          | Through Bolt |               |                       | Tapped Bolt |                         |                            | Superimposed Loads      |                            |               |        | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia.  | Embed | Max O.C.                    | Dia.    | Embed                                                            | Max O.C.                                 | Dia.          | Embed        | Max O.C.        | Dia.         |                    | Embed        | Max O.C. | Dia.         | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size   | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 3/8  | 3     | 8                      | 5/8  | 3 3/8 | 10                    | 5/8  | 4 3/8 | 14          | 3/8  | 3 1/4 | 13                       | 3/4   | 5 1/2 | 14                          | 3/8     | 3 1/4                                                            | 8                                        | 3/4           | 5 1/2        | 8               | 3/8          | 5 3/4              | 36           | 36       | 7/16" x 5/8" | 36            | 36                    | 36          | 36                      | 3/16                       | 0                       | 165                        | 0             | 163    | 5'-5"        |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 5/8  | 4 1/2 | N/A                    | 8    | 5/8   | 4 3/8                 | 12   | 3/8   | 3 1/4       | N/A  | 11    | 3/8                      | 3 1/4 | N/A   | 8                           | 3/8     | 5 3/4                                                            | 36                                       | 36            | 7/16" x 5/8" | 36              | 36           | 7/16" x 5/8"       | 36           | 36       | 36           | 36            | 3/16                  | 0           | 195                     | 0                          | 193                     | 6'-5"                      |               |        |              |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 | N/A                    | 8    | 3/4   | 5 1/4                 | 10   | 3/8   | 3 1/4       | N/A  | 10    | 3/8                      | 3 1/4 | N/A   | 8                           | 3/8     | 5 3/4                                                            | 36                                       | 36            | 7/16" x 5/8" | 36              | 36           | 7/16" x 5/8"       | 36           | 36       | 36           | 36            | 3/16                  | 0           | 225                     | 0                          | 223                     | 7'-5"                      |               |        |              |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 9                     | 3/8  | 3 1/4 | N/A         | 12   | 1/2   | 4 1/4                    | N/A   | 8     | 3/8                         | 5 3/4   | 36                                                               | 36                                       | 7/16" x 5/8"  | 36           | 36              | 7/16" x 5/8" | 36                 | 36           | 36       | 36           | 3/16          | 0                     | 255         | 0                       | 253                        | 8'-5"                   |                            |               |        |              |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 8                     | 3/8  | 3 1/4 | N/A         | 11   | 1/2   | 4 1/4                    | N/A   | 8     | 3/8                         | 5 3/4   | 36                                                               | 36                                       | 7/16" x 5/8"  | 36           | 36              | 7/16" x 5/8" | 36                 | 36           | 36       | 36           | 3/16          | 0                     | 285         | 0                       | 283                        | 9'-5"                   |                            |               |        |              |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 12                    | 1/2  | 4 1/4 | N/A         | 9    | 1/2   | 4 1/4                    | N/A   | 8     | 3/8                         | 5 3/4   | 36                                                               | 36                                       | 7/16" x 5/8"  | 36           | 36              | 7/16" x 5/8" | 36                 | 36           | 36       | 33           | 3/16          | 0                     | 315         | 0                       | 313                        | 10'-5"                  |                            |               |        |              |
| 11'-5"                                                                                | 1 1/8                  | 0.344 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 5/8  | 4 1/2 | N/A                    | N/A  | N/A   | 11                    | 3/8  | 3 1/4 | N/A         | 11   | 3/8   | 3 1/4                    | N/A   | 8     | 3/8                         | 5 3/4   | 36                                                               | 36                                       | 7/16" x 5/8"  | 36           | 36              | 7/16" x 5/8" | 36                 | 36           | 25       | 21           | 3/16          | 104                   | 345         | 38                      | 343                        | 11'-5"                  |                            |               |        |              |
| 12'-5"                                                                                | 1 1/4                  | 0.469 | CP0629          | 344            | 12                       | 3/8                        | 17                        | 8                                            | 1/2  | 3 3/4 | 8                      | 5/8  | 3 3/8 | 9                     | 5/8  | 4 3/8 | 11          | 3/8  | 3 1/4 | 13                       | 3/4   | 5 1/2 | 11                          | 3/8     | 3 1/4                                                            | N/A                                      | 8             | 3/8          | 5 3/4           | 27           | 36                 | 7/16" x 5/8" | 26       | 20           | 9             | 8                     | 3/16        | 339                     | 375                        | 286                     | 373                        | 12'-5"        |        |              |
| 13'-5"                                                                                | 1 3/8                  | 0.594 | CP0629          | 344            | 12                       | 3/8                        | 12                        | 13                                           | 3/4  | 5 1/2 | N/A                    | 8    | 3/4   | 5 1/4                 | 13   | 1/2   | 4 1/4       | N/A  | 10    | 1/2                      | 4 1/4 | N/A   | 8                           | 3/8     | 5 3/4                                                            | 17                                       | 30            | 7/16" x 5/8" | 16              | 11           | 6                  | 5            | 3/16     | 563          | 405           | 520                   | 403         | 13'-5"                  |                            |                         |                            |               |        |              |
| 14'-5"                                                                                | 1 5/8                  | 0.781 | CP0630          | 445            | 10                       | 1/2                        | 14                        | 8                                            | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 9                     | 3/4  | 6 1/4 | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 1/2                         | 6 13/16 | 15                                                               | 23                                       | 9/16" x 3/4"  | 21           | 15              | 7            | 5                  | 1/4          | 1032     | 463          | 1004          | 464                   | 14'-5"      |                         |                            |                         |                            |               |        |              |
| 15'-5"                                                                                | 1 5/8                  | 0.781 | CP0630          | 445            | 10                       | 1/2                        | 14                        | 8                                            | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 9                     | 3/4  | 6 1/4 | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 1/2                         | 6 13/16 | 15                                                               | 23                                       | 9/16" x 3/4"  | 21           | 15              | 7            | 5                  | 1/4          | 1032     | 463          | 1004          | 464                   | 15'-5"      |                         |                            |                         |                            |               |        |              |
| 16'-5"                                                                                | 1 7/8                  | 1.031 | CP0630          | 445            | 10                       | 1/2                        | 13                        | 8                                            | 3/4  | 5 1/2 | N/A                    | N/A  | N/A   | 8                     | 3/4  | 6 1/4 | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 1/2                         | 6 13/16 | 15                                                               | 23                                       | 9/16" x 3/4"  | 20           | 14              | 7            | 5                  | 1/4          | 1059     | 492          | 1038          | 493                   | 16'-5"      |                         |                            |                         |                            |               |        |              |
| 17'-5"                                                                                | 2                      | 1.156 | CP0630          | 445            | 8                        | 1/2                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 1/2                         | 6 13/16 | 13                                                               | 20                                       | 9/16" x 3/4"  | 17           | 11              | 6            | N/A                | 1/4          | 1222     | 522          | 1204          | 523                   | 17'-5"      |                         |                            |                         |                            |               |        |              |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630          | 446            | 8                        | 5/8                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 5/8                         | 6 7/8   | 12                                                               | 19                                       | 11/16" x 7/8" | 22           | 16              | 8            | 5                  | 5/16         | 1488     | 552          | 1469          | 553                   | 18'-5"      |                         |                            |                         |                            |               |        |              |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 5/8                         | 6 7/8   | 10                                                               | 16                                       | 11/16" x 7/8" | 18           | 13              | 6            | N/A                | 5/16         | 1744     | 582          | 1727          | 583                   | 19'-5"      |                         |                            |                         |                            |               |        |              |
| 20'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 5/8                         | 6 7/8   | 9                                                                | 14                                       | 11/16" x 7/8" | 15           | 10              | 6            | N/A                | 5/16         | 1995     | 612          | 1978          | 613                   | 20'-5"      |                         |                            |                         |                            |               |        |              |
| 21'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 18                                                               | 20                                       | 7/8" x 1"     | 36           | 31              | 14           | 10                 | 3/8          | 1779     | 641          | 1760          | 641                   | 21'-5"      |                         |                            |                         |                            |               |        |              |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 16                                                               | 18                                       | 7/8" x 1"     | 36           | 27              | 12           | 9                  | 3/8          | 1989     | 671          | 1972          | 671                   | 22'-5"      |                         |                            |                         |                            |               |        |              |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 14                                                               | 16                                       | 7/8" x 1"     | 32           | 24              | 11           | 8                  | 3/8          | 2198     | 701          | 2181          | 701                   | 23'-5"      |                         |                            |                         |                            |               |        |              |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 15                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 13                                                               | 15                                       | 7/8" x 1"     | 30           | 21              | 10           | 7                  | 3/8          | 2405     | 731          | 2388          | 732                   | 24'-5"      |                         |                            |                         |                            |               |        |              |
| 25'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 12                                                               | 14                                       | 7/8" x 1"     | 27           | 19              | 9            | 7                  | 3/8          | 2612     | 761          | 2595          | 762                   | 25'-5"      |                         |                            |                         |                            |               |        |              |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 11                                                               | 13                                       | 7/8" x 1"     | 24           | 17              | 9            | 6                  | 3/8          | 2818     | 792          | 2802          | 792                   | 26'-5"      |                         |                            |                         |                            |               |        |              |
| 27'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 7 1/2   | 10                                                               | 12                                       | 7/8" x 1"     | 22           | 15              | 8            | 6                  | 3/8          | 3025     | 822          | 3009          | 823                   | 27'-5"      |                         |                            |                         |                            |               |        |              |
| 28'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 11                        | N/A                                          | N/A  | N/A   | N/A                    | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                      | N/A   | 8     | 3/4                         | 9 1/4   | 10                                                               | 11                                       | 7/8" x 1"     | 20           | 13              | 7            | 5                  | 3/8          | 3233     | 852          | 3216          | 853                   | 28'-5"      |                         |                            |                         |                            |               |        |              |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 60 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |         |                  |                    |              |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|-------|------------------|----------------------------------------|-------|------------------|-------------------------------------|-------|------------------|-----------------------------|-------|------------------|----------------------------------|---------|------------------|--------------------|--------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |         |                  |                    |              |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T22 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. | Through Bolting - Stainless Steel Max O.C. | Simpson Strong-Bolt 2 Stainless Steel |       |                  | Powers Power-Stud+ SD4 Stainless Steel |       |                  | Hilti Kwik Bolt T22 Stainless Steel |       |                  | Hilti KH-EZ Stainless Steel |       |                  | Simpson Titen HD Stainless Steel |         |                  | Min. Edge Distance | D.B.G. Up To |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. |                                         |                                            | Max O.C.                              | Embed | Min. Wall Thick. | Max O.C.                               | Embed | Min. Wall Thick. | Max O.C.                            | Embed | Min. Wall Thick. | Max O.C.                    | Embed | Min. Wall Thick. | Max O.C.                         | Embed   | Min. Wall Thick. |                    |              |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 19                | 2 3/8 | 4                | 19                     | 2 3/8 | 3 3/4            | 19                  | 2 1/2 | 4                | 25          | 2 1/2 | 4                | 17                  | 2 1/4 | 4                | 30         | 3 1/2 | 4 3/4            | 36                                      | 31                                         | N/A                                   |       |                  | 17                                     | 1 7/8 | 3 1/4            | 19                                  | 2 1/2 | 4                | 27                          | 2 1/2 | 4                | 27                               | 2 1/2   | 4                | 5 3/4              | 5'-5"        |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 18                | 2 3/8 | 4                | 17                     | 2 3/8 | 3 3/4            | 18                  | 2 1/2 | 4                | 23          | 2 1/2 | 4                | 14                  | 2 1/4 | 4                | 25         | 3 1/2 | 4 3/4            | 34                                      | 26                                         | N/A                                   |       |                  | 15                                     | 1 7/8 | 3 1/4            | 17                                  | 2 1/2 | 4                | 24                          | 2 1/2 | 4                | 25                               | 2 1/2   | 4                | 5 3/4              | 6'-5"        |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 12                  | 2 1/4 | 4                | 22         | 3 1/2 | 4 3/4            | 29                                      | 23                                         | N/A                                   |       |                  | 14                                     | 1 7/8 | 3 1/4            | 16                                  | 2 1/2 | 4                | 23                          | 2 1/2 | 4                | 23                               | 2 1/2   | 4                | 5 3/4              | 7'-5"        |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 19         | 3 1/2 | 4 3/4            | 26                                      | 20                                         | N/A                                   |       |                  | 13                                     | 1 7/8 | 3 1/4            | 15                                  | 2 1/2 | 4                | 21                          | 2 1/2 | 4                | 22                               | 2 1/2   | 4                | 5 3/4              | 8'-5"        |
| 9'-5"                                                                                                 | 344*           | N/A                   |       |                  | 14                | 2 3/8 | 4                | 13                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 17         | 3 1/2 | 4 3/4            | 23                                      | 18                                         | N/A                                   |       |                  | 13                                     | 1 7/8 | 3 1/4            | 14                                  | 2 1/2 | 4                | 20                          | 2 1/2 | 4                | 20                               | 2 1/2   | 4                | 5 3/4              | 9'-5"        |
| 10'-5"                                                                                                | 344*           | N/A                   |       |                  | 13                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 18          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 15         | 3 1/2 | 4 3/4            | 21                                      | 16                                         | N/A                                   |       |                  | N/A                                    |       |                  | 14                                  | 2 1/2 | 4                | 19                          | 2 1/2 | 4                | 19                               | 2 1/2   | 4                | 5 3/4              | 10'-5"       |
| 11'-5"                                                                                                | 344            | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 21         | 3 1/2 | 4 3/4            | 24                                      | 18                                         | N/A                                   |       |                  | 13                                     | 1 7/8 | 3 1/4            | 17                                  | 2 1/2 | 4                | 23                          | 2 1/2 | 4                | 23                               | 2 1/2   | 4                | 5 3/4              | 11'-5"       |
| 12'-5"                                                                                                | 344            | N/A                   |       |                  | 15                | 2 3/8 | 4                | 15                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 19         | 3 1/2 | 4 3/4            | 36                                      | 34                                         | N/A                                   |       |                  | 10                                     | 1 7/8 | 3 1/4            | 16                                  | 2 1/2 | 4                | 22                          | 2 1/2 | 4                | 22                               | 2 1/2   | 4                | 5 3/4              | 12'-5"       |
| 13'-5"                                                                                                | 344            | N/A                   |       |                  | 10                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 16          | 2 1/2 | 4                | 8                   | 2 1/4 | 4                | 13         | 3 1/2 | 4 3/4            | 33                                      | 23                                         | N/A                                   |       |                  | N/A                                    |       |                  | 13                                  | 2 1/2 | 4                | 5                           | 2 1/2 | 4                | 19                               | 3 1/4   | 5                | 5 3/4              | 13'-5"       |
| 14'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      | 28                                         | 13                                    | 3 7/8 | 6                | N/A                                    | 14    | 3 3/4            | 5 1/2                               | 11    | 4 1/4            | 6 3/4                       | 7     | 4                | 6 1/4                            | 6 13/16 | 14'-5"           |                    |              |
| 15'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      | 28                                         | 13                                    | 3 7/8 | 6                | N/A                                    | 14    | 3 3/4            | 5 1/2                               | 11    | 4 1/4            | 6 3/4                       | 7     | 4                | 6 1/4                            | 6 13/16 | 15'-5"           |                    |              |
| 16'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 17          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      | 26                                         | 12                                    | 3 7/8 | 6                | N/A                                    | 13    | 3 3/4            | 5 1/2                               | 10    | 4 1/4            | 6 3/4                       | 7     | 4                | 6 1/4                            | 6 13/16 | 16'-5"           |                    |              |
| 17'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 8                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 9                   | 4     | 6                | 13         | 4 1/4 | 5 1/2            | 30                                      | 21                                         | 10                                    | 3 7/8 | 6                | N/A                                    | 9     | 3 3/4            | 5 1/2                               | 9     | 4 1/4            | 6 3/4                       | 7     | 4                | 6 1/4                            | 6 13/16 | 17'-5"           |                    |              |
| 18'-5"                                                                                                | 446            | 17                    | 5 1/8 | 7 7/8            | 10                | 4 1/2 | 6                | 9                      | 4 5/8 | 7                | 9                   | 4 1/2 | 6                | 16          | 5     | 7                | N/A                 |       |                  | 16         | 5     | 6 1/4            | 36                                      | 33                                         | 11                                    | 5 1/8 | 7 7/8            | N/A                                    | 9     | 4 1/2            | 6                                   | N/A   |                  |                             | 10    | 5 1/2            | 8 1/2                            | 6 7/8   | 18'-5"           |                    |              |
| 19'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       |                  | 10         | 5     | 6 1/4            | 36                                      | 27                                         | 9                                     | 5 1/8 | 7 7/8            | N/A                                    | 7     | 4 1/2            | 6                                   | N/A   |                  |                             | 9     | 5 1/2            | 8 1/2                            | 6 7/8   | 19'-5"           |                    |              |
| 20'-5"                                                                                                | 546            | 8                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | N/A                    |       |                  | 5                   | 4 1/2 | 6                | 8           | 5     | 7                | N/A                 |       |                  | 5          | 5     | 6 1/4            | 32                                      | 22                                         | 7                                     | 5 1/8 | 7 7/8            | N/A                                    | 5     | 3 3/4            | 5 1/2                               | N/A   |                  |                             | 7     | 5 1/2            | 8 1/2                            | 6 7/8   | 20'-5"           |                    |              |
| 21'-5"                                                                                                | 548            | 16                    | 5 3/4 | 8 3/4            | 10                | 5 1/2 | 8                | 7                      | 5 5/8 | 10               | 18                  | 5 1/2 | 8                | 19          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 14         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 18                                    | 5 3/4 | 8 3/4            | N/A                                    | 11    | 5 1/2            | 8                                   | N/A   |                  |                             | 25    | 6 1/4            | 10                               | 7 1/2   | 21'-5"           |                    |              |
| 22'-5"                                                                                                | 548            | 12                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    |       |                  | 10                  | 5 1/2 | 8                | 17          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 12                                    | 5 3/4 | 8 3/4            | N/A                                    | 9     | 5 1/2            | 8                                   | N/A   |                  |                             | 11    | 6 1/4            | 10                               | 7 1/2   | 22'-5"           |                    |              |
| 23'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 10          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 11         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 11                                    | 5 3/4 | 8 3/4            | N/A                                    | 7     | 5 1/2            | 8                                   | N/A   |                  |                             | 10    | 6 1/4            | 10                               | 7 1/2   | 23'-5"           |                    |              |
| 24'-5"                                                                                                | 648            | 9                     | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 8          | 6 5/8 | 7 7/8            | 36                                      | 33                                         | 10                                    | 5 3/4 | 8 3/4            | N/A                                    | 6     | 5 1/2            | 8                                   | N/A   |                  |                             | 9     | 6 1/4            | 10                               | 7 1/2   | 24'-5"           |                    |              |
| 25'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   | 5 1/2 | 8                | 7           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      | 30                                         | 8                                     | 5 3/4 | 8 3/4            | N/A                                    | N/A   |                  |                                     | N/A   |                  |                             | 7     | 6 1/4            | 10                               | 7 1/2   | 25'-5"           |                    |              |
| 26'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      | 27                                         | 7                                     | 5 3/4 | 8 3/4            | N/A                                    | N/A   |                  |                                     | N/A   |                  |                             | 6     | 6 1/4            | 10                               | 7 1/2   | 26'-5"           |                    |              |
| 27'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 5           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 35                                      | 24                                         | N/A                                   |       |                  | N/A                                    |       |                  | N/A                                 |       |                  | N/A                         |       |                  | 7                                | 1/2     | 27'-5"           |                    |              |
| 28'-5"                                                                                                | DC6            | 9                     | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 9          | 6 5/8 | 7 7/8            | 36                                      | 34                                         | 10                                    | 5 3/4 | 8 3/4            | 8                                      | 4 1/2 | 6                | 7                                   | 5 1/2 | 8                | N/A                         |       |                  | 8                                | 6 1/4   | 10               | 9 1/4              | 28'-5"       |

|      |                         |            |     |        |
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| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |       |       |             |       |       |                          |       |       |                             |                                                                  |       |                                          |       |       |                 |         |                    |        |              |               |               |                       |             |                         |                            |                         |                            |               |        |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|-------|-------|-------------|-------|-------|--------------------------|-------|-------|-----------------------------|------------------------------------------------------------------|-------|------------------------------------------|-------|-------|-----------------|---------|--------------------|--------|--------------|---------------|---------------|-----------------------|-------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |       |       |             |       |       |                          |       |       |                             | Steel (Wall anchors are the same diameter as assembly fasteners) |       |                                          |       |       |                 |         |                    |        |              |               |               |                       |             |                         |                            |                         |                            |               |        |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |       |       | Simpson Strong-Tie Titen |       |       | Hilti KH-EZ Stainless Steel |                                                                  |       | Simpson Strong-Tie Titen Stainless Steel |       |       | Through Bolting |         | Min. Edge Distance | Welded |              | Through Bolt  |               |                       | Tapped Bolt |                         |                            | Superimposed Loads      |                            |               |        | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                 | Dia.  | Embed | Max O.C.                    | Dia.                                                             | Embed | Max O.C.                                 | Dia.  | Embed | Max O.C.        | Dia.    |                    | Embed  | Max O.C.     | Dia.          | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size   | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 1/2  | 3 3/4 | N/A                    |      | 9     | 5/8                   | 4 3/8 | 13    | 3/8         | 3 1/4 | 12    | 3/4                      | 5 1/2 | 13    | 3/8                         | 3 1/4                                                            | 8     | 3/4                                      | 5 1/2 | 8     | 3/8             | 5 3/4   | 36                 | 36     | 7/16" x 5/8" | 36            | 36            | 36                    | 36          | 3/16                    | 0                          | 179                     | 0                          | 176           | 5'-5"  |              |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 9                                            | 5/8  | 4 1/2 | N/A                    |      | 8     | 5/8                   | 4 3/8 | 11    | 3/8         | 3 1/4 | N/A   |                          |       | 10    | 3/8                         | 3 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 36                 | 36     | 7/16" x 5/8" | 36            | 36            | 36                    | 36          | 3/16                    | 0                          | 211                     | 0                          | 209           | 6'-5"  |              |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 | N/A                    |      | 8     | 3/4                   | 5 1/4 | 9     | 3/8         | 3 1/4 | N/A   |                          |       | 9     | 3/8                         | 3 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 36                 | 36     | 7/16" x 5/8" | 36            | 36            | 36                    | 36          | 3/16                    | 0                          | 244                     | 0                          | 241           | 7'-5"  |              |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 14                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 8     | 3/8         | 3 1/4 | N/A   |                          |       | 11    | 1/2                         | 4 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 36                 | 36     | 7/16" x 5/8" | 36            | 36            | 36                    | 36          | 3/16                    | 0                          | 276                     | 0                          | 274           | 8'-5"  |              |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 12                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 12    | 1/2         | 4 1/4 | N/A   |                          |       | 10    | 1/2                         | 4 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 36                 | 36     | 7/16" x 5/8" | 36            | 36            | 36                    | 36          | 34                      | 3/16                       | 0                       | 309                        | 0             | 306    | 9'-5"        |
| 10'-5"                                                                                | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 11    | 1/2         | 4 1/4 | N/A   |                          |       | 9     | 1/2                         | 4 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 36                 | 36     | 7/16" x 5/8" | 36            | 36            | 36                    | 36          | 31                      | 3/16                       | 0                       | 341                        | 0             | 339    | 10'-5"       |
| 11'-5"                                                                                | 1 1/8                  | 0.344 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 8                                            | 1/2  | 3 3/4 | N/A                    |      | 8     | 5/8                   | 4 3/8 | 12    | 3/8         | 3 1/4 | N/A   |                          |       | 12    | 3/8                         | 3 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 33                 | 36     | 7/16" x 5/8" | 31            | 24            | 11                    | 9           | 3/16                    | 273                        | 374                     | 205                        | 371           | 11'-5" |              |
| 12'-5"                                                                                | 1 1/4                  | 0.469 | CP0629          | 344            | 12                       | 3/8                        | 13                        | 8                                            | 5/8  | 4 1/2 | N/A                    |      | 8     | 5/8                   | 4 3/8 | 14    | 1/2         | 4 1/4 | N/A   |                          |       | 11    | 1/2                         | 4 1/4                                                            | N/A   |                                          |       | 8     | 3/8             | 5 3/4   | 19                 | 32     | 7/16" x 5/8" | 18            | 13            | 6                     | 5           | 3/16                    | 502                        | 406                     | 448                        | 404           | 12'-5" |              |
| 13'-5"                                                                                | 1 1/2                  | 0.656 | CP0630          | 445            | 10                       | 1/2                        | 14                        | 8                                            | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 9     | 3/4         | 6 1/4 | N/A   |                          |       | N/A   |                             |                                                                  | N/A   |                                          |       | 8     | 1/2             | 6 13/16 | 15                 | 23     | 9/16" x 3/4" | 21            | 15            | 7                     | 5           | 1/4                     | 1029                       | 470                     | 995                        | 470           | 13'-5" |              |
| 14'-5"                                                                                | 1 1/2                  | 0.656 | CP0630          | 445            | 10                       | 1/2                        | 14                        | 8                                            | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 9     | 3/4         | 6 1/4 | N/A   |                          |       | N/A   |                             |                                                                  | N/A   |                                          |       | 8     | 1/2             | 6 13/16 | 15                 | 23     | 9/16" x 3/4" | 21            | 15            | 7                     | 5           | 1/4                     | 1029                       | 470                     | 995                        | 470           | 14'-5" |              |
| 15'-5"                                                                                | 1 5/8                  | 0.781 | CP0630          | 445            | 8                        | 1/2                        | 12                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 1/2     | 6 13/16            | 13     | 20           | 9/16" x 3/4"  | 17            | 12                    | 6           | N/A                     | 1/4                        | 1206                    | 502                        | 1178          | 502    | 15'-5"       |
| 16'-5"                                                                                | 1 7/8                  | 1.031 | CP0630          | 445            | 8                        | 1/2                        | 12                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 1/2     | 6 13/16            | 13     | 20           | 9/16" x 3/4"  | 17            | 11                    | 6           | N/A                     | 1/4                        | 1225                    | 533                        | 1202          | 534    | 16'-5"       |
| 17'-5"                                                                                | 2                      | 1.156 | CP0630          | 446            | 8                        | 5/8                        | 17                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 5/8     | 6 7/8              | 13     | 21           | 11/16" x 7/8" | 24            | 18                    | 8           | 6                       | 5/16                       | 1393                    | 565                        | 1373          | 566    | 17'-5"       |
| 18'-5"                                                                                | 2                      | 1.156 | CP0630          | 546            | 8                        | 5/8                        | 14                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 5/8     | 6 7/8              | 11     | 17           | 11/16" x 7/8" | 19            | 14                    | 7           | 5                       | 5/16                       | 1673                    | 598                        | 1654          | 599    | 18'-5"       |
| 19'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 13                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 5/8     | 6 7/8              | 9      | 15           | 11/16" x 7/8" | 16            | 11                    | 6           | N/A                     | 5/16                       | 1945                    | 630                        | 1926          | 632    | 19'-5"       |
| 20'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 18     | 20           | 7/8" x 1"     | 36            | 31                    | 14          | 10                      | 3/8                        | 1744                    | 662                        | 1725          | 662    | 20'-5"       |
| 21'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 16     | 18           | 7/8" x 1"     | 36            | 28                    | 12          | 9                       | 3/8                        | 1972                    | 694                        | 1953          | 695    | 21'-5"       |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 14     | 16           | 7/8" x 1"     | 32            | 24                    | 11          | 8                       | 3/8                        | 2196                    | 727                        | 2177          | 727    | 22'-5"       |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 13     | 15           | 7/8" x 1"     | 29            | 21                    | 10          | 7                       | 3/8                        | 2419                    | 760                        | 2400          | 760    | 23'-5"       |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 12     | 14           | 7/8" x 1"     | 26            | 18                    | 9           | 7                       | 3/8                        | 2640                    | 792                        | 2622          | 793    | 24'-5"       |
| 25'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 11     | 12           | 7/8" x 1"     | 24            | 16                    | 8           | 6                       | 3/8                        | 2861                    | 825                        | 2844          | 826    | 25'-5"       |
| 26'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 5                        | 3/4                        | 12                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 7 1/2              | 10     | 12           | 7/8" x 1"     | 21            | 14                    | 8           | 6                       | 3/8                        | 3083                    | 858                        | 3065          | 859    | 26'-5"       |
| 27'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 11                        | N/A                                          |      |       | N/A                    |      |       | N/A                   |       |       | N/A         |       |       | N/A                      |       |       | N/A                         |                                                                  |       | N/A                                      |       |       | 8               | 3/4     | 9 1/4              | 9      | 11           | 7/8" x 1"     | 19            | 13                    | 7           | 5                       | 3/8                        | 3305                    | 891                        | 3287          | 891    | 27'-5"       |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |          |                                  |                  |         |                    |              |  |  |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|-------|--------------------------------------------|----------|---------------------------------------|------------------|----------|----------------------------------------|------------------|----------|-------------------------------------|------------------|----------|-----------------------------|------------------|----------|----------------------------------|------------------|---------|--------------------|--------------|--|--|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |          |                                  |                  |         |                    |              |  |  |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T22 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. |       | Through Bolting - Stainless Steel Max O.C. |          | Simpson Strong-Bolt 2 Stainless Steel |                  |          | Powers Power-Stud+ SD4 Stainless Steel |                  |          | Hilti Kwik Bolt T22 Stainless Steel |                  |          | Hilti KH-EZ Stainless Steel |                  |          | Simpson Titen HD Stainless Steel |                  |         | Min. Edge Distance | D.B.G. Up To |  |  |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. | Max O.C.                                | Embed | Min. Wall Thick.                           | Max O.C. | Embed                                 | Min. Wall Thick. | Max O.C. | Embed                                  | Min. Wall Thick. | Max O.C. | Embed                               | Min. Wall Thick. | Max O.C. | Embed                       | Min. Wall Thick. | Max O.C. | Embed                            | Min. Wall Thick. |         |                    |              |  |  |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 19                | 2 3/8 | 4                | 18                     | 2 3/8 | 3 3/4            | 19                  | 2 1/2 | 4                | 24          | 2 1/2 | 4                | 16                  | 2 1/4 | 4                | 27         | 3 1/2 | 4 3/4            | 36                                      | 29    |                                            | N/A      |                                       |                  | 16       | 1 7/8                                  | 3 1/4            | 18       | 2 1/2                               | 4                | 26       | 2 1/2                       | 4                | 26       | 2 1/2                            | 4                | 5 3/4   | 5'-5"              |              |  |  |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 17                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 23         | 3 1/2 | 4 3/4            | 31                                      | 24    |                                            | N/A      |                                       |                  | 15       | 1 7/8                                  | 3 1/4            | 17       | 2 1/2                               | 4                | 23       | 2 1/2                       | 4                | 24       | 2 1/2                            | 4                | 5 3/4   | 6'-5"              |              |  |  |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 15                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 27                                      | 21    |                                            | N/A      |                                       |                  | 14       | 1 7/8                                  | 3 1/4            | 16       | 2 1/2                               | 4                | 22       | 2 1/2                       | 4                | 22       | 2 1/2                            | 4                | 5 3/4   | 7'-5"              |              |  |  |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 13                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 10                  | 2 1/4 | 4                | 17         | 3 1/2 | 4 3/4            | 24                                      | 18    |                                            | N/A      |                                       |                  | 13       | 1 7/8                                  | 3 1/4            | 15       | 2 1/2                               | 4                | 20       | 2 1/2                       | 4                | 21       | 2 1/2                            | 4                | 5 3/4   | 8'-5"              |              |  |  |
| 9'-5"                                                                                                 | 344*           | N/A                   |       |                  | 13                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 18          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 16         | 3 1/2 | 4 3/4            | 21                                      | 16    |                                            | N/A      |                                       |                  | 12       | 1 7/8                                  | 3 1/4            | 14       | 2 1/2                               | 4                | 19       | 2 1/2                       | 4                | 20       | 2 1/2                            | 4                | 5 3/4   | 9'-5"              |              |  |  |
| 10'-5"                                                                                                | 344*           | N/A                   |       |                  | 12                | 2 3/8 | 4                | 10                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 17          | 2 1/2 | 4                | 8                   | 2 1/4 | 4                | 14         | 3 1/2 | 4 3/4            | 19                                      | 15    |                                            | N/A      |                                       |                  | N/A      |                                        |                  | 13       | 2 1/2                               | 4                | 5        | 2 1/2                       | 4                | 19       | 3 1/4                            | 5                | 5 3/4   | 10'-5"             |              |  |  |
| 11'-5"                                                                                                | 344            | N/A                   |       |                  | 16                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 14                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 34                                      | 26    |                                            | N/A      |                                       |                  | 11       | 1 7/8                                  | 3 1/4            | 17       | 2 1/2                               | 4                | 23       | 2 1/2                       | 4                | 23       | 2 1/2                            | 4                | 5 3/4   | 11'-5"             |              |  |  |
| 12'-5"                                                                                                | 344            | N/A                   |       |                  | 11                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 17          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 14         | 3 1/2 | 4 3/4            | 36                                      | 27    |                                            | N/A      |                                       |                  | N/A      |                                        |                  | 13       | 2 1/2                               | 4                | 17       | 2 1/2                       | 4                | 17       | 2 1/2                            | 4                | 5 3/4   | 12'-5"             |              |  |  |
| 13'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      | 28    |                                            | 12       | 3 7/8                                 | 6                | N/A      |                                        |                  | 14       | 3 3/4                               | 5 1/2            | 11       | 4 1/4                       | 6 3/4            | 7        | 4                                | 6 1/4            | 6 13/16 | 13'-5"             |              |  |  |
| 14'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 18          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      | 28    |                                            | 12       | 3 7/8                                 | 6                | N/A      |                                        |                  | 14       | 3 3/4                               | 5 1/2            | 11       | 4 1/4                       | 6 3/4            | 7        | 4                                | 6 1/4            | 6 13/16 | 14'-5"             |              |  |  |
| 15'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 8                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 10                  | 4     | 6                | 13         | 4 1/4 | 5 1/2            | 32                                      | 22    |                                            | 10       | 3 7/8                                 | 6                | N/A      |                                        |                  | 9        | 3 3/4                               | 5 1/2            | 9        | 4 1/4                       | 6 3/4            | 7        | 4                                | 6 1/4            | 6 13/16 | 15'-5"             |              |  |  |
| 16'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 8                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 9                   | 4     | 6                | 13         | 4 1/4 | 5 1/2            | 31                                      | 21    |                                            | 10       | 3 7/8                                 | 6                | N/A      |                                        |                  | 9        | 3 3/4                               | 5 1/2            | 9        | 4 1/4                       | 6 3/4            | 7        | 4                                | 6 1/4            | 6 13/16 | 16'-5"             |              |  |  |
| 17'-5"                                                                                                | 446            | 17                    | 5 1/8 | 7 7/8            | 10                | 4 1/2 | 6                | 10                     | 4 5/8 | 7                | 10                  | 4 1/2 | 6                | 17          | 5     | 7                | N/A                 |       | 17               | 5          | 6 1/4 | 36               | 36                                      |       | 16                                         | 5 1/8    | 7 7/8                                 | N/A              |          |                                        | 10               | 4 1/2    | 6                                   | N/A              |          |                             | 18               | 5 1/2    | 8 1/2                            | 6 7/8            | 17'-5"  |                    |              |  |  |
| 18'-5"                                                                                                | 546            | 11                    | 5 1/8 | 7 7/8            | 8                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 8                   | 4 1/2 | 6                | 11          | 5     | 7                | N/A                 |       | 11               | 5          | 6 1/4 | 36               | 28                                      |       | 10                                         | 5 1/8    | 7 7/8                                 | N/A              |          |                                        | 7                | 4 1/2    | 6                                   | N/A              |          |                             | 10               | 5 1/2    | 8 1/2                            | 6 7/8            | 18'-5"  |                    |              |  |  |
| 19'-5"                                                                                                | 546            | 9                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | 5                      | 4 5/8 | 7                | 5                   | 4 1/2 | 6                | 8           | 5     | 7                | N/A                 |       | 6                | 5          | 6 1/4 | 33               | 23                                      |       | 8                                          | 5 1/8    | 7 7/8                                 | N/A              |          |                                        | 5                | 4 1/2    | 6                                   | N/A              |          |                             | 8                | 5 1/2    | 8 1/2                            | 6 7/8            | 19'-5"  |                    |              |  |  |
| 20'-5"                                                                                                | 548            | 17                    | 5 3/4 | 8 3/4            | 10                | 5 1/2 | 8                | 7                      | 5 5/8 | 10               | 18                  | 5 1/2 | 8                | 19          | 6 1/4 | 8 1/8            | N/A                 |       | 20               | 6 5/8      | 7 7/8 | 36               | 36                                      |       | 18                                         | 5 3/4    | 8 3/4                                 | N/A              |          |                                        | 11               | 5 1/2    | 8                                   | N/A              |          |                             | 26               | 6 1/4    | 10                               | 7 1/2            | 20'-5"  |                    |              |  |  |
| 21'-5"                                                                                                | 548            | 12                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    |       |                  | 10                  | 5 1/2 | 8                | 17          | 6 1/4 | 8 1/8            | N/A                 |       | 13               | 6 5/8      | 7 7/8 | 36               | 36                                      |       | 12                                         | 5 3/4    | 8 3/4                                 | N/A              |          |                                        | 9                | 5 1/2    | 8                                   | N/A              |          |                             | 11               | 6 1/4    | 10                               | 7 1/2            | 21'-5"  |                    |              |  |  |
| 22'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 10          | 6 1/4 | 8 1/8            | N/A                 |       | 11               | 6 5/8      | 7 7/8 | 36               | 36                                      |       | 11                                         | 5 3/4    | 8 3/4                                 | N/A              |          |                                        | 7                | 5 1/2    | 8                                   | N/A              |          |                             | 10               | 6 1/4    | 10                               | 7 1/2            | 22'-5"  |                    |              |  |  |
| 23'-5"                                                                                                | 648            | 9                     | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       | 7                | 6 5/8      | 7 7/8 | 36               | 36                                      |       | 9                                          | 5 3/4    | 8 3/4                                 | N/A              |          |                                        | 6                | 5 1/2    | 8                                   | N/A              |          |                             | 8                | 6 1/4    | 10                               | 7 1/2            | 23'-5"  |                    |              |  |  |
| 24'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   | 5 1/2 | 8                | 7           | 6 1/4 | 8 1/8            | N/A                 |       | N/A              |            | 36    |                  | 29                                      |       | 8                                          | 5 3/4    | 8 3/4                                 | N/A              |          |                                        | N/A              |          |                                     | N/A              |          |                             | 7                | 6 1/4    | 10                               | 7 1/2            | 24'-5"  |                    |              |  |  |
| 25'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           | 6 1/4 | 8 1/8            | N/A                 |       | N/A              |            | 36    |                  | 26                                      |       | 7                                          | 5 3/4    | 8 3/4                                 | N/A              |          |                                        | N/A              |          |                                     | N/A              |          |                             | 6                | 6 1/4    | 10                               | 7 1/2            | 25'-5"  |                    |              |  |  |
| 26'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | N/A         |       |                  | N/A                 |       | N/A              |            | 34    |                  | 23                                      |       | N/A                                        |          |                                       | N/A              |          |                                        | N/A              |          |                                     | N/A              |          |                             | N/A              |          |                                  | 7                | 1/2     | 26'-5"             |              |  |  |
| 27'-5"                                                                                                | DC6            | 9                     | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       | N/A              |            | 36    |                  | 32                                      |       | 9                                          | 5 3/4    | 8 3/4                                 | 7                | 4 1/2    | 6                                      | 7                | 5 1/2    | 8                                   | N/A              |          |                             | 8                | 6 1/4    | 10                               | 9 1/4            | 27'-5"  |                    |              |  |  |

|      |                         |            |     |        |
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| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 70 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                |                                                                  |       |                                             |      |                  |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |                    |     |      |     |                 |
|---------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|-----------------------------|------|-------|--------------------------------|------------------------------------------------------------------|-------|---------------------------------------------|------|------------------|--------------------------|-----------|-----------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|-------------|--------|--------|--------------------|-----|------|-----|-----------------|
| Guide Construction                                                                    |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                | Steel (Wall anchors are the same diameter as assembly fasteners) |       |                                             |      |                  |                          |           |                       |                            |                               |                            |                               |                  |             |        |        |                    |     |      |     |                 |
| D.B.G.<br>Up To                                                                       | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt T22<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie<br>Titan |      |       | Hilti KH-EZ Stainless<br>Steel |                                                                  |       | Simpson Strong-Tie<br>Titan Stainless Steel |      |                  | Through<br>Bolting       |           | Min. Edge<br>Distance | Welded                     |                               | Through Bolt               |                               |                  | Tapped Bolt |        |        | Superimposed Loads |     |      |     | D.B.G.<br>Up To |
|                                                                                       |                           |       |                 |                   |                             |                                  |                                 | Max<br>O.C.                                     | Dia. | Embed | Max<br>O.C.               | Dia. | Embed | Max<br>O.C.           | Dia. | Embed | Max<br>O.C. | Dia. | Embed | Max<br>O.C.                 | Dia. | Embed | Max<br>O.C.                    | Dia.                                                             | Embed | Max<br>O.C.                                 | Dia. | Slot Max<br>O.C. | Heel and Toe<br>Max O.C. | Slot Size |                       | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+)      | Vy (+) | Vx (-) | Vy (-)             |     |      |     |                 |
| 5'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 5/8  | 4 3/8 | 12          | 3/8  | 3 1/4 | N/A                         |      |       | 12                             | 3/8                                                              | 3 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 193 | 0    | 190 | 5'-5"           |
| 6'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      |       | 8                     | 3/4  | 5 1/4 | 10          | 3/8  | 3 1/4 | N/A                         |      |       | 10                             | 3/8                                                              | 3 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 228 | 0    | 225 | 6'-5"           |
| 7'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 14                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 8           | 3/8  | 3 1/4 | N/A                         |      |       | 12                             | 1/2                                                              | 4 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 36     | 3/16   | 0                  | 263 | 0    | 260 | 7'-5"           |
| 8'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 13                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 13          | 1/2  | 4 1/4 | N/A                         |      |       | 10                             | 1/2                                                              | 4 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 35     | 3/16   | 0                  | 298 | 0    | 295 | 8'-5"           |
| 9'-5"                                                                                 | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 11                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 11          | 1/2  | 4 1/4 | N/A                         |      |       | 9                              | 1/2                                                              | 4 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 36          | 31     | 3/16   | 0                  | 333 | 0    | 330 | 9'-5"           |
| 10'-5"                                                                                | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 9           | 1/2  | 4 1/4 | N/A                         |      |       | 8                              | 1/2                                                              | 4 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 36                         | 36                            | 7/16" x 5/8"               | 36                            | 36               | 34          | 28     | 3/16   | 0                  | 368 | 0    | 365 | 10'-5"          |
| 11'-5"                                                                                | 1 1/8                     | 0.344 | CP0629          | 344               | 12                          | 3/8                              | 15                              | 8                                               | 5/8  | 4 1/2 | N/A                       |      |       | 9                     | 5/8  | 4 3/8 | 8           | 3/8  | 3 1/4 | 12                          | 3/4  | 5 1/2 | 12                             | 1/2                                                              | 4 1/4 | N/A                                         |      |                  | 8                        | 3/8       | 5 3/4                 | 21                         | 33                            | 7/16" x 5/8"               | 20                            | 15               | 7           | 6      | 3/16   | 443                | 403 | 372  | 400 | 11'-5"          |
| 12'-5"                                                                                | 1 3/8                     | 0.531 | CP0630          | 445               | 10                          | 1/2                              | 15                              | 8                                               | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 9           | 3/4  | 6 1/4 | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 1/2       | 6 13/16               | 16                         | 23                            | 9/16" x 3/4"               | 21                            | 15               | 7           | 5      | 1/4    | 1013               | 471 | 972  | 471 | 12'-5"          |
| 13'-5"                                                                                | 1 3/8                     | 0.531 | CP0630          | 445               | 10                          | 1/2                              | 15                              | 8                                               | 3/4  | 5 1/2 | N/A                       |      |       | N/A                   |      |       | 9           | 3/4  | 6 1/4 | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 1/2       | 6 13/16               | 16                         | 23                            | 9/16" x 3/4"               | 21                            | 15               | 7           | 5      | 1/4    | 1013               | 471 | 972  | 471 | 13'-5"          |
| 14'-5"                                                                                | 1 1/2                     | 0.656 | CP0630          | 445               | 8                           | 1/2                              | 13                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 1/2       | 6 13/16               | 13                         | 20                            | 9/16" x 3/4"               | 17                            | 12               | 6           | N/A    | 1/4    | 1202               | 506 | 1166 | 506 | 14'-5"          |
| 15'-5"                                                                                | 1 5/8                     | 0.781 | CP0630          | 446               | 8                           | 5/8                              | 18                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 5/8       | 6 7/8                 | 13                         | 20                            | 11/16" x 7/8"              | 24                            | 18               | 8           | 6      | 5/16   | 1381               | 540 | 1351 | 541 | 15'-5"          |
| 16'-5"                                                                                | 1 7/8                     | 1.031 | CP0630          | 446               | 8                           | 5/8                              | 17                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 5/8       | 6 7/8                 | 13                         | 21                            | 11/16" x 7/8"              | 24                            | 18               | 8           | 6      | 5/16   | 1391               | 574 | 1367 | 575 | 16'-5"          |
| 17'-5"                                                                                | 2                         | 1.156 | CP0630          | 546               | 8                           | 5/8                              | 15                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 5/8       | 6 7/8                 | 12                         | 18                            | 11/16" x 7/8"              | 21                            | 15               | 7           | 5      | 5/16   | 1564               | 609 | 1543 | 610 | 17'-5"          |
| 18'-5"                                                                                | 2                         | 1.156 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 5/8       | 6 7/8                 | 10                         | 15                            | 11/16" x 7/8"              | 17                            | 12               | 6           | N/A    | 5/16   | 1859               | 644 | 1838 | 645 | 18'-5"          |
| 19'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 8                           | 3/4                              | 18                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 7 1/2                 | 19                         | 21                            | 7/8" x 1"                  | 36                            | 33               | 14          | 10     | 3/8    | 1680               | 678 | 1658 | 678 | 19'-5"          |
| 20'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 17                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 7 1/2                 | 16                         | 18                            | 7/8" x 1"                  | 36                            | 28               | 13          | 9      | 3/8    | 1924               | 713 | 1903 | 713 | 20'-5"          |
| 21'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 7 1/2                 | 14                         | 16                            | 7/8" x 1"                  | 33                            | 24               | 11          | 8      | 3/8    | 2165               | 748 | 2145 | 748 | 21'-5"          |
| 22'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 14                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 7 1/2                 | 13                         | 15                            | 7/8" x 1"                  | 30                            | 21               | 10          | 7      | 3/8    | 2403               | 783 | 2383 | 783 | 22'-5"          |
| 23'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 13                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 7 1/2                 | 12                         | 13                            | 7/8" x 1"                  | 26                            | 18               | 9           | 6      | 3/8    | 2640               | 818 | 2620 | 819 | 23'-5"          |
| 24'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | 648               | 6                           | 3/4                              | 12                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 7 1/2                 | 11                         | 12                            | 7/8" x 1"                  | 23                            | 16               | 8           | 6      | 3/8    | 2875               | 853 | 2856 | 854 | 24'-5"          |
| 25'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 11                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 9 1/4                 | 10                         | 11                            | 7/8" x 1"                  | 21                            | 14               | 8           | 5      | 3/8    | 3111               | 889 | 3092 | 889 | 25'-5"          |
| 26'-5"                                                                                | 2 1/2                     | 1.656 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 11                              | N/A                                             |      |       | N/A                       |      |       | N/A                   |      |       | N/A         |      |       | N/A                         |      |       | N/A                            |                                                                  |       | N/A                                         |      |                  | 8                        | 3/4       | 9 1/4                 | 9                          | 11                            | 7/8" x 1"                  | 19                            | 13               | 7           | 5      | 3/8    | 3347               | 924 | 3328 | 925 | 26'-5"          |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 70 PSF - Continued     |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |        |                                     |         |        |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|-------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|--------|-------------------------------------|---------|--------|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |       |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |        |                                     |         |        |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt T22 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |       | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt T22 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |        | Simpson Titan HD Stainless<br>Steel |         |        | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. | Max O.C.                                      | Embed | Min. Wall<br>Thick.                              | Max O.C. | Embed                                    | Min. Wall<br>Thick. | Max O.C. | Embed                                     | Min. Wall<br>Thick. | Max O.C. | Embed                                  | Min. Wall<br>Thick. | Max O.C. | Embed                       | Min. Wall<br>Thick. |        |                                     |         |        |                       |                 |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 18                | 2 3/8 | 4                   | 17                     | 2 3/8 | 3 3/4               | 18                  | 2 1/2 | 4                   | 23          | 2 1/2 | 4                   | 15                  | 2 1/4 | 4                   | 25         | 3 1/2 | 4 3/4               | 34                                            |       | 27                                               | N/A      |                                          |                     | 15       | 1 7/8                                     | 3 1/4               | 18       | 2 1/2                                  | 4                   | 25       | 2 1/2                       | 4                   | 25     | 2 1/2                               | 4       | 5 3/4  | 5'-5"                 |                 |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 16                | 2 3/8 | 4                   | 16                     | 2 3/8 | 3 3/4               | 16                  | 2 1/2 | 4                   | 22          | 2 1/2 | 4                   | 12                  | 2 1/4 | 4                   | 21         | 3 1/2 | 4 3/4               | 29                                            |       | 22                                               | N/A      |                                          |                     | 14       | 1 7/8                                     | 3 1/4               | 16       | 2 1/2                                  | 4                   | 23       | 2 1/2                       | 4                   | 23     | 2 1/2                               | 4       | 5 3/4  | 6'-5"                 |                 |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 14                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 25                                            |       | 19                                               | N/A      |                                          |                     | 13       | 1 7/8                                     | 3 1/4               | 15       | 2 1/2                                  | 4                   | 21       | 2 1/2                       | 4                   | 21     | 2 1/2                               | 4       | 5 3/4  | 7'-5"                 |                 |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 14                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 19          | 2 1/2 | 4                   | 9                   | 2 1/4 | 4                   | 16         | 3 1/2 | 4 3/4               | 22                                            |       | 17                                               | N/A      |                                          |                     | 12       | 1 7/8                                     | 3 1/4               | 14       | 2 1/2                                  | 4                   | 20       | 2 1/2                       | 4                   | 20     | 2 1/2                               | 4       | 5 3/4  | 8'-5"                 |                 |
| 9'-5"                                                                                                 | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 14         | 3 1/2 | 4 3/4               | 20                                            |       | 15                                               | N/A      |                                          |                     | N/A      |                                           |                     | 13       | 2 1/2                                  | 4                   | 5        | 2 1/2                       | 4                   | 19     | 2 1/2                               | 4       | 5 3/4  | 9'-5"                 |                 |
| 10'-5"                                                                                                | 344*              | N/A                   |       |                     | 11                | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 13                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 18                                            |       | 14                                               | N/A      |                                          |                     | N/A      |                                           |                     | 13       | 2 1/2                                  | 4                   | 5        | 2 1/2                       | 4                   | 18     | 3 1/4                               | 5       | 5 3/4  | 10'-5"                |                 |
| 11'-5"                                                                                                | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 12                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 36                                            |       | 33                                               | N/A      |                                          |                     | 6        | 1 7/8                                     | 3 1/4               | 14       | 2 1/2                                  | 4                   | 19       | 2 1/2                       | 4                   | 18     | 2 1/2                               | 4       | 5 3/4  | 11'-5"                |                 |
| 12'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            |       | 29                                               | 12       | 3 7/8                                    | 6                   | N/A      |                                           | 14                  | 3 3/4    | 5 1/2                                  | 11                  | 4 1/4    | 6 3/4                       | 7                   | 4      | 6 1/4                               | 6 13/16 | 12'-5" |                       |                 |
| 13'-5"                                                                                                | 445               | 14                    | 3 7/8 | 6                   | 9                 | 3 5/8 | 6                   | 10                     | 3 3/4 | 6                   | 9                   | 3 3/4 | 5 1/2               | 18          | 4 1/4 | 6 3/4               | 11                  | 4     | 6                   | 15         | 4 1/4 | 5 1/2               | 36                                            |       | 29                                               | 12       | 3 7/8                                    | 6                   | N/A      |                                           | 14                  | 3 3/4    | 5 1/2                                  | 11                  | 4 1/4    | 6 3/4                       | 7                   | 4      | 6 1/4                               | 6 13/16 | 13'-5" |                       |                 |
| 14'-5"                                                                                                | 445               | 10                    | 3 7/8 | 6                   | 8                 | 3 5/8 | 6                   | 9                      | 3 3/4 | 6                   | 8                   | 3 3/4 | 5 1/2               | 16          | 4 1/4 | 6 3/4               | 9                   | 4     | 6                   | 13         | 4 1/4 | 5 1/2               | 33                                            |       | 23                                               | 10       | 3 7/8                                    | 6                   | N/A      |                                           | 9                   | 3 3/4    | 5 1/2                                  | 9                   | 4 1/4    | 6 3/4                       | 7                   | 4      | 6 1/4                               | 6 13/16 | 14'-5" |                       |                 |
| 15'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   | N/A                 |       | 17                  | 5          | 6 1/4 | 36                  |                                               | 36    | 16                                               | 5 1/8    | 7 7/8                                    | N/A                 |          | 10                                        | 4 1/2               | 6        | N/A                                    |                     |          | 19                          | 5 1/2               | 8 1/2  | 6 7/8                               | 15'-5"  |        |                       |                 |
| 16'-5"                                                                                                | 446               | 17                    | 5 1/8 | 7 7/8               | 10                | 4 1/2 | 6                   | 10                     | 4 5/8 | 7                   | 10                  | 4 1/2 | 6                   | 17          | 5     | 7                   | N/A                 |       | 17                  | 5          | 6 1/4 | 36                  |                                               | 36    | 16                                               | 5 1/8    | 7 7/8                                    | N/A                 |          | 10                                        | 4 1/2               | 6        | N/A                                    |                     |          | 18                          | 5 1/2               | 8 1/2  | 6 7/8                               | 16'-5"  |        |                       |                 |
| 17'-5"                                                                                                | 546               | 15                    | 5 1/8 | 7 7/8               | 9                 | 4 1/2 | 6                   | 8                      | 4 5/8 | 7                   | 8                   | 4 1/2 | 6                   | 11          | 5     | 7                   | N/A                 |       | 12                  | 5          | 6 1/4 | 36                  |                                               | 31    | 11                                               | 5 1/8    | 7 7/8                                    | N/A                 |          | 8                                         | 4 1/2               | 6        | N/A                                    |                     |          | 10                          | 5 1/2               | 8 1/2  | 6 7/8                               | 17'-5"  |        |                       |                 |
| 18'-5"                                                                                                | 546               | 9                     | 5 1/8 | 7 7/8               | 6                 | 4 1/2 | 6                   | 5                      | 4 5/8 | 7                   | 6                   | 4 1/2 | 6                   | 9           | 5     | 7                   | N/A                 |       | 8                   | 5          | 6 1/4 | 35                  |                                               | 24    | 8                                                | 5 1/8    | 7 7/8                                    | N/A                 |          | 6                                         | 4 1/2               | 6        | N/A                                    |                     |          | 8                           | 5 1/2               | 8 1/2  | 6 7/8                               | 18'-5"  |        |                       |                 |
| 19'-5"                                                                                                | 548               | 17                    | 5 3/4 | 8 3/4               | 11                | 5 1/2 | 8                   | 7                      | 5 5/8 | 10                  | 19                  | 5 1/2 | 8                   | 19          | 6 1/4 | 8 1/8               | N/A                 |       | 20                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36    | 19                                               | 5 3/4    | 8 3/4                                    | N/A                 |          | 11                                        | 5 1/2               | 8        | N/A                                    |                     |          | 26                          | 6 1/4               | 10     | 7 1/2                               | 19'-5"  |        |                       |                 |
| 20'-5"                                                                                                | 548               | 12                    | 5 3/4 | 8 3/4               | 9                 | 5 1/2 | 8                   | N/A                    |       |                     | 10                  | 5 1/2 | 8                   | 17          | 6 1/4 | 8 1/8               | N/A                 |       | 13                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36    | 16                                               | 5 3/4    | 8 3/4                                    | N/A                 |          | 9                                         | 5 1/2               | 8        | N/A                                    |                     |          | 24                          | 6 1/4               | 10     | 7 1/2                               | 20'-5"  |        |                       |                 |
| 21'-5"                                                                                                | 548               | 11                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   | N/A                    |       |                     | 9                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               | N/A                 |       | 11                  | 6 5/8      | 7 7/8 | 36                  |                                               | 36    | 11                                               | 5 3/4    | 8 3/4                                    | N/A                 |          | 8                                         | 5 1/2               | 8        | N/A                                    |                     |          | 10                          | 6 1/4               | 10     | 7 1/2                               | 21'-5"  |        |                       |                 |
| 22'-5"                                                                                                | 648               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       | 8                   | 6 5/8      | 7 7/8 | 36                  |                                               | 33    | 10                                               | 5 3/4    | 8 3/4                                    | N/A                 |          | 6                                         | 5 1/2               | 8        | N/A                                    |                     |          | 9                           | 6 1/4               | 10     | 7 1/2                               | 22'-5"  |        |                       |                 |
| 23'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       | N/A                 |            | 36    |                     |                                               | 29    | 8                                                | 5 3/4    | 8 3/4                                    | N/A                 |          | N/A                                       |                     |          | N/A                                    |                     |          | 7                           | 6 1/4               | 10     | 7 1/2                               | 23'-5"  |        |                       |                 |
| 24'-5"                                                                                                | 648               | 6                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | 5           | 6 1/4 | 8 1/8               | N/A                 |       | N/A                 |            | 36    |                     |                                               | 26    | N/A                                              |          |                                          | N/A                 |          |                                           | N/A                 |          |                                        | 5                   | 6 1/4    | 10                          | 7 1/2               | 24'-5" |                                     |         |        |                       |                 |
| 25'-5"                                                                                                | DC6               | 10                    | 5 3/4 | 8 3/4               | 7                 | 5 1/2 | 8                   | N/A                    |       |                     | 9                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       | 10                  |            | 6 5/8 | 7 7/8               | 36                                            |       | 35                                               | 10       | 5 3/4                                    | 8 3/4               | 8        | 4 1/2                                     | 6                   | 8        | 5 1/2                                  | 8                   | N/A      |                             |                     | 9      | 6 1/4                               | 10      | 9 1/4  | 25'-5"                |                 |
| 26'-5"                                                                                                | DC6               | 8                     | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       | 8                   |            | 6 5/8 | 7 7/8               | 36                                            |       | 31                                               | 9        | 5 3/4                                    | 8 3/4               | 7        | 4 1/2                                     | 6                   | 7        | 5 1/2                                  | 8                   | N/A      |                             |                     | 7      | 6 1/4                               | 10      | 9 1/4  | 26'-5"                |                 |

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |       |       |             |       |       |                          |      |       |                             |      |       |                                                                  |      |         |                 |      |                    |               |                       |              |                         |                            |                         |                            |               |                    |        |        |        |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|-------|-------|-------------|-------|-------|--------------------------|------|-------|-----------------------------|------|-------|------------------------------------------------------------------|------|---------|-----------------|------|--------------------|---------------|-----------------------|--------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------------------|--------|--------|--------|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |       |       |             |       |       |                          |      |       |                             |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |         |                 |      |                    |               |                       |              |                         |                            |                         |                            |               |                    |        |        |        |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt TZ2 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |       |       | Hilti KH-EZ |       |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |      |       | Simpson Strong-Tie Titen Stainless Steel                         |      |         | Through Bolting |      | Min. Edge Distance | Welded        |                       | Through Bolt |                         |                            | Tapped Bolt             |                            |               | Superimposed Loads |        |        |        | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia.  | Embed | Max O.C.    | Dia.  | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                                                         | Dia. | Embed   | Max O.C.        | Dia. |                    | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size    | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+)             | Vy (+) | Vx (-) | Vy (-) |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 8                                            | 5/8  | 4 1/2 | N/A                    |      | 8     | 3/4                   | 5 1/4 | 10    | 3/8         | 3 1/4 | N/A   |                          | 10   | 3/8   | 3 1/4                       | N/A  |       | 8                                                                | 3/8  | 5 3/4   | 36              | 36   | 7/16" x 5/8"       | 36            | 36                    | 36           | 36                      | 3/16                       | 0                       | 220                        | 0             | 217                | 5'-5"  |        |        |              |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 9     | 3/8         | 3 1/4 | N/A   |                          | 12   | 1/2   | 4 1/4                       | N/A  |       | 8                                                                | 3/8  | 5 3/4   | 36              | 36   | 7/16" x 5/8"       | 36            | 36                    | 36           | 36                      | 3/16                       | 0                       | 260                        | 0             | 257                | 6'-5"  |        |        |              |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 10    | 1/2         | 4 1/4 | N/A   |                          | 10   | 1/2   | 4 1/4                       | N/A  |       | 8                                                                | 3/8  | 5 3/4   | 36              | 36   | 7/16" x 5/8"       | 36            | 36                    | 36           | 35                      | 3/16                       | 0                       | 300                        | 0             | 297                | 7'-5"  |        |        |              |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 11    | 1/2         | 4 1/4 | N/A   |                          | 9    | 1/2   | 4 1/4                       | N/A  |       | 8                                                                | 3/8  | 5 3/4   | 36              | 36   | 7/16" x 5/8"       | 36            | 36                    | 36           | 31                      | 3/16                       | 0                       | 340                        | 0             | 337                | 8'-5"  |        |        |              |
| 9'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 9     | 1/2         | 4 1/4 | N/A   |                          | 8    | 1/2   | 4 1/4                       | N/A  |       | 8                                                                | 3/8  | 5 3/4   | 36              | 36   | 7/16" x 5/8"       | 36            | 36                    | 33           | 27                      | 3/16                       | 0                       | 380                        | 0             | 377                | 9'-5"  |        |        |              |
| 10'-5"                                                                                | 1 1/16                 | 0.282 | CP0629          | 344            | 12                       | 3/8                        | 18                        | 9                                            | 5/8  | 4 1/2 | N/A                    |      | 8     | 3/4                   | 5 1/4 | 10    | 3/8         | 3 1/4 | N/A   |                          | 10   | 3/8   | 3 1/4                       | N/A  |       | 8                                                                | 3/8  | 5 3/4   | 30              | 36   | 7/16" x 5/8"       | 28            | 22                    | 10           | 8                       | 3/16                       | 301                     | 420                        | 210           | 417                | 10'-5" |        |        |              |
| 11'-5"                                                                                | 1 5/16                 | 0.469 | CP0630          | 445            | 10                       | 1/2                        | 15                        | 8                                            | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 9     | 3/4         | 6 1/4 | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 1/2  | 6 13/16 | 16              | 23   | 9/16" x 3/4"       | 22            | 16                    | 8            | 5                       | 1/4                        | 984                     | 498                        | 933           | 498                | 11'-5" |        |        |              |
| 12'-5"                                                                                | 1 5/16                 | 0.469 | CP0630          | 445            | 10                       | 1/2                        | 15                        | 8                                            | 3/4  | 5 1/2 | N/A                    |      | N/A   |                       |       | 9     | 3/4         | 6 1/4 | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 1/2  | 6 13/16 | 16              | 23   | 9/16" x 3/4"       | 22            | 16                    | 8            | 5                       | 1/4                        | 984                     | 498                        | 933           | 498                | 12'-5" |        |        |              |
| 13'-5"                                                                                | 1 3/8                  | 0.531 | CP0630          | 445            | 8                        | 1/2                        | 12                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 1/2  | 6 13/16 | 11              | 17   | 9/16" x 3/4"       | 14            | 9                     | 5            | N/A                     | 1/4                        | 1360                    | 539                        | 1315          | 539                | 13'-5" |        |        |              |
| 14'-5"                                                                                | 1 1/2                  | 0.656 | CP0630          | 446            | 8                        | 5/8                        | 16                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 5/8  | 6 7/8   | 12              | 18   | 11/16" x 7/8"      | 21            | 15                    | 7            | 5                       | 5/16                       | 1548                    | 578                        | 1509          | 579                | 14'-5" |        |        |              |
| 15'-5"                                                                                | 1 5/8                  | 0.781 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 5/8  | 6 7/8   | 10              | 16   | 11/16" x 7/8"      | 19            | 13                    | 6            | 5                       | 5/16                       | 1730                    | 618                        | 1697          | 619                | 15'-5" |        |        |              |
| 16'-5"                                                                                | 1 7/8                  | 1.031 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 5/8  | 6 7/8   | 11              | 17   | 11/16" x 7/8"      | 19            | 13                    | 7            | 5                       | 5/16                       | 1723                    | 656                        | 1697          | 658                | 16'-5" |        |        |              |
| 17'-5"                                                                                | 2                      | 1.156 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 5/8  | 6 7/8   | 9               | 15   | 11/16" x 7/8"      | 16            | 11                    | 6            | N/A                     | 5/16                       | 1905                    | 696                        | 1882          | 697                | 17'-5" |        |        |              |
| 18'-5"                                                                                | 2 3/8                  | 1.531 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 18                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 7 1/2   | 17              | 19   | 7/8" x 1"          | 36            | 30                    | 13           | 9                       | 3/8                        | 1840                    | 735                        | 1814          | 735                | 18'-5" |        |        |              |
| 19'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 7 1/2   | 15              | 18   | 7/8" x 1"          | 35            | 27                    | 12           | 9                       | 3/8                        | 2013                    | 775                        | 1990          | 775                | 19'-5" |        |        |              |
| 20'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 15                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 7 1/2   | 14              | 16   | 7/8" x 1"          | 31            | 22                    | 11           | 8                       | 3/8                        | 2284                    | 815                        | 2261          | 815                | 20'-5" |        |        |              |
| 21'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 7 1/2   | 12              | 14   | 7/8" x 1"          | 27            | 19                    | 9            | 7                       | 3/8                        | 2551                    | 855                        | 2529          | 855                | 21'-5" |        |        |              |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 7 1/2   | 11              | 13   | 7/8" x 1"          | 24            | 17                    | 9            | 6                       | 3/8                        | 2817                    | 895                        | 2795          | 896                | 22'-5" |        |        |              |
| 23'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 11                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 9 1/4   | 10              | 11   | 7/8" x 1"          | 21            | 14                    | 8            | 5                       | 3/8                        | 3081                    | 935                        | 3060          | 936                | 23'-5" |        |        |              |
| 24'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 11                        |                                              |      |       | N/A                    |      | N/A   |                       |       | N/A   |             |       | N/A   |                          | N/A  |       |                             | N/A  |       | 8                                                                | 3/4  | 9 1/4   | 9               | 11   | 7/8" x 1"          | 19            | 13                    | 7            | 5                       | 3/8                        | 3345                    | 976                        | 3324          | 976                | 24'-5" |        |        |              |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |       |                                  |       |         |                    |              |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|-------|--------------------------------------------|----------|---------------------------------------|------------------|----------|----------------------------------------|------------------|----------|-------------------------------------|------------------|----------|-----------------------------|------------------|-------|----------------------------------|-------|---------|--------------------|--------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |       |                                            |          |                                       |                  |          |                                        |                  |          |                                     |                  |          |                             |                  |       |                                  |       |         |                    |              |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt TZ2 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. |       | Through Bolting - Stainless Steel Max O.C. |          | Simpson Strong-Bolt 2 Stainless Steel |                  |          | Powers Power-Stud+ SD4 Stainless Steel |                  |          | Hilti Kwik Bolt TZ2 Stainless Steel |                  |          | Hilti KH-EZ Stainless Steel |                  |       | Simpson Titen HD Stainless Steel |       |         | Min. Edge Distance | D.B.G. Up To |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. | Max O.C.                                | Embed | Min. Wall Thick.                           | Max O.C. | Embed                                 | Min. Wall Thick. | Max O.C. | Embed                                  | Min. Wall Thick. | Max O.C. | Embed                               | Min. Wall Thick. | Max O.C. | Embed                       | Min. Wall Thick. |       |                                  |       |         |                    |              |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 17                | 2 3/8 | 4                | 16                     | 2 3/8 | 3 3/4            | 17                  | 2 1/2 | 4                | 22          | 2 1/2 | 4                | 13                  | 2 1/4 | 4                | 22         | 3 1/2 | 4 3/4            | 30                                      |       | 23                                         | N/A      |                                       |                  | 14       | 1 7/8                                  | 3 1/4            | 16       | 2 1/2                               | 4                | 23       | 2 1/2                       | 4                | 23    | 2 1/2                            | 4     | 5 3/4   | 5'-5"              |              |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 15                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 20          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 19         | 3 1/2 | 4 3/4            | 25                                      |       | 20                                         | N/A      |                                       |                  | 13       | 1 7/8                                  | 3 1/4            | 15       | 2 1/2                               | 4                | 21       | 2 1/2                       | 4                | 21    | 2 1/2                            | 4     | 5 3/4   | 6'-5"              |              |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 13                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 16         | 3 1/2 | 4 3/4            | 22                                      |       | 17                                         | N/A      |                                       |                  | 12       | 1 7/8                                  | 3 1/4            | 14       | 2 1/2                               | 4                | 20       | 2 1/2                       | 4                | 20    | 2 1/2                            | 4     | 5 3/4   | 7'-5"              |              |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 12                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 18          | 2 1/2 | 4                | 8                   | 2 1/4 | 4                | 14         | 3 1/2 | 4 3/4            | 19                                      |       | 15                                         | N/A      |                                       |                  | N/A      |                                        |                  | 13       | 2 1/2                               | 4                | 5        | 2 1/2                       | 4                | 19    | 3 1/4                            | 5     | 5 3/4   | 8'-5"              |              |
| 9'-5"                                                                                                 | 344*           | N/A                   |       |                  | 10                | 2 3/8 | 4                | 5                      | 2 3/8 | 4                | 13                  | 2 1/2 | 4                | 17          | 2 1/2 | 4                | 5                   | 2 1/4 | 4                | 13         | 3 1/2 | 4 3/4            | 17                                      |       | 13                                         | N/A      |                                       |                  | N/A      |                                        |                  | 12       | 2 1/2                               | 4                | 5        | 2 1/2                       | 4                | 18    | 3 1/4                            | 5     | 5 3/4   | 9'-5"              |              |
| 10'-5"                                                                                                | 344            | N/A                   |       |                  | 13                | 2 3/8 | 4                | 14                     | 2 3/8 | 3 3/4            | 15                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 17         | 3 1/2 | 4 3/4            | 30                                      |       | 23                                         | N/A      |                                       |                  | 8        | 1 7/8                                  | 3 1/4            | 15       | 2 1/2                               | 4                | 21       | 2 1/2                       | 4                | 21    | 2 1/2                            | 4     | 5 3/4   | 10'-5"             |              |
| 11'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 17          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      |       | 31                                         | 12       | 3 7/8                                 | 6                | N/A      |                                        |                  | 13       | 3 3/4                               | 5 1/2            | 10       | 4 1/4                       | 6 3/4            | 7     | 4                                | 6 1/4 | 6 13/16 | 11'-5"             |              |
| 12'-5"                                                                                                | 445            | 14                    | 3 7/8 | 6                | 9                 | 3 5/8 | 6                | 10                     | 3 3/4 | 6                | 9                   | 3 3/4 | 5 1/2            | 17          | 4 1/4 | 6 3/4            | 11                  | 4     | 6                | 15         | 4 1/4 | 5 1/2            | 36                                      |       | 31                                         | 12       | 3 7/8                                 | 6                | N/A      |                                        |                  | 13       | 3 3/4                               | 5 1/2            | 10       | 4 1/4                       | 6 3/4            | 7     | 4                                | 6 1/4 | 6 13/16 | 12'-5"             |              |
| 13'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 6                 | 3 5/8 | 6                | 8                      | 3 3/4 | 6                | 6                   | 3 3/4 | 5 1/2            | 9           | 4 1/4 | 6 3/4            | 8                   | 4     | 6                | 10         | 4 1/4 | 5 1/2            | 28                                      |       | 19                                         | 9        | 3 7/8                                 | 6                | N/A      |                                        |                  | 8        | 3 3/4                               | 5 1/2            | 8        | 4 1/4                       | 6 3/4            | 7     | 4                                | 6 1/4 | 6 13/16 | 13'-5"             |              |
| 14'-5"                                                                                                | 446            | 15                    | 5 1/8 | 7 7/8            | 9                 | 4 1/2 | 6                | 8                      | 4 5/8 | 7                | 9                   | 4 1/2 | 6                | 11          | 5     | 7                | N/A                 |       |                  | 12         | 5     | 6 1/4            | 36                                      |       | 33                                         | 11       | 5 1/8                                 | 7 7/8            | N/A      |                                        |                  | 8        | 4 1/2                               | 6                | N/A      |                             |                  | 10    | 5 1/2                            | 8 1/2 | 6 7/8   | 14'-5"             |              |
| 15'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       |                  | 10         | 5     | 6 1/4            | 36                                      |       | 28                                         | 9        | 5 1/8                                 | 7 7/8            | N/A      |                                        |                  | 7        | 4 1/2                               | 6                | N/A      |                             |                  | 9     | 5 1/2                            | 8 1/2 | 6 7/8   | 15'-5"             |              |
| 16'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 6                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       |                  | 10         | 5     | 6 1/4            | 36                                      |       | 27                                         | 9        | 5 1/8                                 | 7 7/8            | N/A      |                                        |                  | 7        | 4 1/2                               | 6                | N/A      |                             |                  | 9     | 5 1/2                            | 8 1/2 | 6 7/8   | 16'-5"             |              |
| 17'-5"                                                                                                | 546            | 9                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | 5                      | 4 5/8 | 7                | 5                   | 4 1/2 | 6                | 8           | 5     | 7                | N/A                 |       |                  | 6          | 5     | 6 1/4            | 33                                      |       | 23                                         | 8        | 5 1/8                                 | 7 7/8            | N/A      |                                        |                  | 5        | 4 1/2                               | 6                | N/A      |                             |                  | 8     | 5 1/2                            | 8 1/2 | 6 7/8   | 17'-5"             |              |
| 18'-5"                                                                                                | 548            | 13                    | 5 3/4 | 8 3/4            | 9                 | 5 1/2 | 8                | N/A                    |       |                  | 11                  | 5 1/2 | 8                | 18          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 14         | 6 5/8 | 7 7/8            | 36                                      |       | 36                                         | 17       | 5 3/4                                 | 8 3/4            | N/A      |                                        |                  | 10       | 5 1/2                               | 8                | N/A      |                             |                  | 24    | 6 1/4                            | 10    | 7 1/2   | 18'-5"             |              |
| 19'-5"                                                                                                | 548            | 12                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    |       |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      |       | 36                                         | 12       | 5 3/4                                 | 8 3/4            | N/A      |                                        |                  | 9        | 5 1/2                               | 8                | N/A      |                             |                  | 11    | 6 1/4                            | 10    | 7 1/2   | 19'-5"             |              |
| 20'-5"                                                                                                | 648            | 10                    | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 9          | 6 5/8 | 7 7/8            | 36                                      |       | 35                                         | 10       | 5 3/4                                 | 8 3/4            | N/A      |                                        |                  | 6        | 5 1/2                               | 8                | N/A      |                             |                  | 9     | 6 1/4                            | 10    | 7 1/2   | 20'-5"             |              |
| 21'-5"                                                                                                | 648            | 8                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      |       |                                            |          | 30                                    | 8                | 5 3/4    | 8 3/4                                  | N/A              |          |                                     | N/A              |          |                             | 7                | 6 1/4 | 10                               | 7 1/2 | 21'-5"  |                    |              |
| 22'-5"                                                                                                | 648            | 6                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 6           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      |       |                                            |          | 26                                    | 7                | 5 3/4    | 8 3/4                                  | N/A              |          |                                     | N/A              |          |                             | 6                | 6 1/4 | 10                               | 7 1/2 | 22'-5"  |                    |              |
| 23'-5"                                                                                                | DC6            | 10                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 9                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 10         | 6 5/8 | 7 7/8            | 36                                      |       | 35                                         | 10       | 5 3/4                                 | 8 3/4            | 8        | 4 1/2                                  | 6                | 8        | 5 1/2                               | 8                | N/A      |                             |                  | 9     | 6 1/4                            | 10    | 9 1/4   | 23'-5"             |              |
| 24'-5"                                                                                                | DC6            | 8                     | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 7           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 8          | 6 5/8 | 7 7/8            | 36                                      |       | 31                                         | 9        | 5 3/4                                 | 8 3/4            | 7        | 4 1/2                                  | 6                | 6        | 5 1/2                               | 8                | N/A      |                             |                  | 7     | 6 1/4                            | 10    | 9 1/4   | 24'-5"             |              |

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L'TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 90 PSF |                        |       |                 |                |                          |                            |                           |                                              |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                             |      |       |                                                                  |      |       |                 |      |                    |        |          |               |               |                       |             |                         |                            |                         |                            |               |        |              |
|---------------------------------------------------------------------------------------|------------------------|-------|-----------------|----------------|--------------------------|----------------------------|---------------------------|----------------------------------------------|------|-------|------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|--------------------------|------|-------|-----------------------------|------|-------|------------------------------------------------------------------|------|-------|-----------------|------|--------------------|--------|----------|---------------|---------------|-----------------------|-------------|-------------------------|----------------------------|-------------------------|----------------------------|---------------|--------|--------------|
| Guide Construction                                                                    |                        |       |                 |                |                          |                            |                           | Filled CMU                                   |      |       |                        |      |       |                       |      |       |             |      |       |                          |      |       |                             |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |      |       |                 |      |                    |        |          |               |               |                       |             |                         |                            |                         |                            |               |        |              |
| D.B.G. Up To                                                                          | Windlock Flat Location | Slip  | Windlock        | Guide Assembly | Windlock Flat Weld Pitch | Assembly Fastener Diameter | Assembly Fastener Spacing | Hilti Kwik Bolt T22 Carbon & Stainless Steel |      |       | Powers Power-Stud+ SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie Titen |      |       | Hilti KH-EZ Stainless Steel |      |       | Simpson Strong-Tie Titen Stainless Steel                         |      |       | Through Bolting |      | Min. Edge Distance | Welded |          | Through Bolt  |               |                       | Tapped Bolt |                         |                            | Superimposed Loads      |                            |               |        | D.B.G. Up To |
|                                                                                       |                        |       |                 |                |                          |                            |                           | Max O.C.                                     | Dia. | Embed | Max O.C.               | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                 | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                                                         | Dia. | Embed | Max O.C.        | Dia. |                    | Embed  | Max O.C. | Dia.          | Slot Max O.C. | Heel and Toe Max O.C. | Slot Size   | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Carbon Steel - Max O.C. | Stainless Steel - Max O.C. | Min Thickness | Vx (+) |              |
| 5'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 15                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 9           | 3/8  | 3 1/4 | N/A                      |      |       | 9                           | 3/8  | 3 1/4 | N/A                                                              |      |       | 8               | 3/8  | 5 3/4              | 36     | 36       | 7/16" x 5/8"  | 36            | 36                    | 36          | 36                      | 3/16                       | 0                       | 248                        | 0             | 244    | 5'-5"        |
| 6'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 13                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 8           | 3/8  | 3 1/4 | N/A                      |      |       | 11                          | 1/2  | 4 1/4 | N/A                                                              |      |       | 8               | 3/8  | 5 3/4              | 36     | 36       | 7/16" x 5/8"  | 36            | 36                    | 36          | 36                      | 3/16                       | 0                       | 293                        | 0             | 289    | 6'-5"        |
| 7'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 11                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 11          | 1/2  | 4 1/4 | N/A                      |      |       | 9                           | 1/2  | 4 1/4 | N/A                                                              |      |       | 8               | 3/8  | 5 3/4              | 36     | 36       | 7/16" x 5/8"  | 36            | 36                    | 36          | 31                      | 3/16                       | 0                       | 338                        | 0             | 334    | 7'-5"        |
| 8'-5"                                                                                 | N/A                    | N/A   | N/A             | 344*           | N/A                      | 3/8                        | 24                        | 10                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 9           | 1/2  | 4 1/4 | N/A                      |      |       | 8                           | 1/2  | 4 1/4 | N/A                                                              |      |       | 8               | 3/8  | 5 3/4              | 36     | 36       | 7/16" x 5/8"  | 36            | 36                    | 33          | 27                      | 3/16                       | 0                       | 383                        | 0             | 379    | 8'-5"        |
| 10'-5"                                                                                | 1 1/16                 | 0.282 | CP0629          | 344            | 12                       | 3/8                        | 12                        | 10                                           | 3/4  | 5 1/2 | N/A                    |      |       | N/A                   |      |       | 9           | 1/2  | 4 1/4 | N/A                      |      |       | 8                           | 1/2  | 4 1/4 | N/A                                                              |      |       | 8               | 3/8  | 5 3/4              | 15     | 23       | 7/16" x 5/8"  | 14            | 9                     | 5           | N/A                     | 3/16                       | 629                     | 473                        | 534           | 470    | 10'-5"       |
| 11'-5"                                                                                | 1 3/16                 | 0.344 | CP0630          | 445            | 8                        | 1/2                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 1/2  | 6 13/16            | 14     | 19       | 9/16" x 3/4"  | 19            | 13                    | 7           | 5                       | 1/4                        | 1108                    | 516                        | 1041          | 516    | 11'-5"       |
| 12'-5"                                                                                | 1 5/16                 | 0.469 | CP0630          | 445            | 8                        | 1/2                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 1/2  | 6 13/16            | 12     | 17       | 9/16" x 3/4"  | 15            | 10                    | 6           | N/A                     | 1/4                        | 1314                    | 561                        | 1259          | 561    | 12'-5"       |
| 13'-5"                                                                                | 1 3/8                  | 0.531 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 15                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 5/8  | 6 7/8              | 11     | 16       | 11/16" x 7/8" | 19            | 13                    | 7           | 5                       | 5/16                       | 1707                    | 606                        | 1658          | 607    | 13'-5"       |
| 14'-5"                                                                                | 1 1/2                  | 0.656 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 5/8  | 6 7/8              | 10     | 15       | 11/16" x 7/8" | 16            | 11                    | 6           | N/A                     | 5/16                       | 1894                    | 651                        | 1851          | 652    | 14'-5"       |
| 15'-5"                                                                                | 1 5/8                  | 0.781 | CP0630 & CP0647 | 546            | 6                        | 5/8                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 5/8  | 6 7/8              | 9      | 14       | 11/16" x 7/8" | 14            | 10                    | 5           | N/A                     | 5/16                       | 2079                    | 695                        | 2043          | 697    | 15'-5"       |
| 16'-5"                                                                                | 1 7/8                  | 1.031 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 17                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 7 1/2              | 15     | 17       | 7/8" x 1"     | 34            | 26                    | 12          | 8                       | 3/8                        | 2071                    | 740                        | 2027          | 740    | 16'-5"       |
| 17'-5"                                                                                | 2 1/8                  | 1.281 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 16                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 7 1/2              | 15     | 17       | 7/8" x 1"     | 34            | 25                    | 12          | 8                       | 3/8                        | 2103                    | 784                        | 2067          | 784    | 17'-5"       |
| 18'-5"                                                                                | 2 3/8                  | 1.531 | CP0630 & CP0647 | 548            | 6                        | 3/4                        | 15                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 7 1/2              | 14     | 16       | 7/8" x 1"     | 33            | 24                    | 11          | 8                       | 3/8                        | 2162                    | 827                        | 2133          | 827    | 18'-5"       |
| 19'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 14                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 7 1/2              | 13     | 15       | 7/8" x 1"     | 30            | 22                    | 10          | 7                       | 3/8                        | 2347                    | 872                        | 2321          | 872    | 19'-5"       |
| 20'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 13                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 7 1/2              | 12     | 13       | 7/8" x 1"     | 26            | 18                    | 9           | 6                       | 3/8                        | 2644                    | 917                        | 2619          | 917    | 20'-5"       |
| 21'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | 648            | 6                        | 3/4                        | 12                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 7 1/2              | 11     | 12       | 7/8" x 1"     | 23            | 16                    | 8           | 6                       | 3/8                        | 2938                    | 962                        | 2913          | 962    | 21'-5"       |
| 22'-5"                                                                                | 2 1/2                  | 1.656 | CP0630 & CP0647 | DC6            | 5                        | 3/4                        | 11                        |                                              | N/A  |       | N/A                    |      |       | N/A                   |      |       | N/A         |      |       | N/A                      |      |       | N/A                         |      |       | N/A                                                              |      |       | 8               | 3/4  | 9 1/4              | 10     | 11       | 7/8" x 1"     | 20            | 13                    | 7           | 5                       | 3/8                        | 3230                    | 1007                       | 3207          | 1008   | 22'-5"       |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 90 PSF - Continued     |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |       |                  |                    |              |       |        |
|-------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------|------------------|-------------------|-------|------------------|------------------------|-------|------------------|---------------------|-------|------------------|-------------|-------|------------------|---------------------|-------|------------------|------------|-------|------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|-------|------------------|----------------------------------------|-------|------------------|-------------------------------------|-------|------------------|-----------------------------|-------|------------------|----------------------------------|-------|------------------|--------------------|--------------|-------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                |                       |       |                  |                   |       |                  |                        |       |                  |                     |       |                  |             |       |                  |                     |       |                  |            |       |                  |                                         |                                            |                                       |       |                  |                                        |       |                  |                                     |       |                  |                             |       |                  |                                  |       |                  |                    |              |       |        |
| D.B.G. Up To                                                                                          | Guide Assembly | Simpson Strong-Bolt 2 |       |                  | Hilti Kwik Bolt 1 |       |                  | Powers Power-Stud+ SD1 |       |                  | Hilti Kwik Bolt T22 |       |                  | Hilti KH-EZ |       |                  | ITW Redhead Trubolt |       |                  | Hilti HVU2 |       |                  | Through Bolting - Carbon Steel Max O.C. | Through Bolting - Stainless Steel Max O.C. | Simpson Strong-Bolt 2 Stainless Steel |       |                  | Powers Power-Stud+ SD4 Stainless Steel |       |                  | Hilti Kwik Bolt T22 Stainless Steel |       |                  | Hilti KH-EZ Stainless Steel |       |                  | Simpson Titen HD Stainless Steel |       |                  | Min. Edge Distance | D.B.G. Up To |       |        |
|                                                                                                       |                | Max O.C.              | Embed | Min. Wall Thick. | Max O.C.          | Embed | Min. Wall Thick. | Max O.C.               | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.    | Embed | Min. Wall Thick. | Max O.C.            | Embed | Min. Wall Thick. | Max O.C.   | Embed | Min. Wall Thick. |                                         |                                            | Max O.C.                              | Embed | Min. Wall Thick. | Max O.C.                               | Embed | Min. Wall Thick. | Max O.C.                            | Embed | Min. Wall Thick. | Max O.C.                    | Embed | Min. Wall Thick. | Max O.C.                         | Embed | Min. Wall Thick. |                    |              |       |        |
| 5'-5"                                                                                                 | 344*           | N/A                   |       |                  | 16                | 2 3/8 | 4                | 15                     | 2 3/8 | 3 3/4            | 16                  | 2 1/2 | 4                | 21          | 2 1/2 | 4                | 11                  | 2 1/4 | 4                | 20         | 3 1/2 | 4 3/4            | 27                                      | 21                                         | N/A                                   |       |                  | 14                                     | 1 7/8 | 3 1/4            | 15                                  | 2 1/2 | 4                | 22                          | 2 1/2 | 4                | 22                               | 2 1/2 | 4                | 5 3/4              | 5'-5"        |       |        |
| 6'-5"                                                                                                 | 344*           | N/A                   |       |                  | 14                | 2 3/8 | 4                | 12                     | 2 3/8 | 3 3/4            | 14                  | 2 1/2 | 4                | 19          | 2 1/2 | 4                | 9                   | 2 1/4 | 4                | 17         | 3 1/2 | 4 3/4            | 22                                      | 17                                         | N/A                                   |       |                  | 12                                     | 1 7/8 | 3 1/4            | 14                                  | 2 1/2 | 4                | 20                          | 2 1/2 | 4                | 20                               | 2 1/2 | 4                | 5 3/4              | 6'-5"        |       |        |
| 7'-5"                                                                                                 | 344*           | N/A                   |       |                  | 12                | 2 3/8 | 4                | 11                     | 2 3/8 | 3 3/4            | 13                  | 2 1/2 | 4                | 18          | 2 1/2 | 4                | 8                   | 2 1/4 | 4                | 14         | 3 1/2 | 4 3/4            | 19                                      | 15                                         | N/A                                   |       |                  | N/A                                    |       |                  | 13                                  | 2 1/2 | 4                | 5                           | 2 1/2 | 4                | 19                               | 3 1/4 | 5                | 5 3/4              | 7'-5"        |       |        |
| 8'-5"                                                                                                 | 344*           | N/A                   |       |                  | 10                | 2 3/8 | 4                | 5                      | 2 3/8 | 4                | 13                  | 2 1/2 | 4                | 16          | 2 1/2 | 4                | 5                   | 2 1/4 | 4                | 12         | 3 1/2 | 4 3/4            | 17                                      | 13                                         | N/A                                   |       |                  | N/A                                    |       |                  | 12                                  | 2 1/2 | 4                | 5                           | 2 1/2 | 4                | 18                               | 3 1/4 | 5                | 5 3/4              | 8'-5"        |       |        |
| 10'-5"                                                                                                | 344            | N/A                   |       |                  | 5                 | 2 3/8 | 4                | 5                      | 2 3/8 | 4                | 5                   | 2 1/2 | 4                | 5           | 2 1/2 | 4                | 5                   | 2 1/4 | 4                | 11         | 3 1/2 | 4 3/4            | 31                                      | 22                                         | N/A                                   |       |                  | N/A                                    |       |                  | 5                                   | 2 1/2 | 4                | 5                           | 2 1/2 | 4                | 6                                | 3 1/4 | 5                | 5 3/4              | 10'-5"       |       |        |
| 11'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 8                 | 3 5/8 | 6                | 9                      | 3 3/4 | 6                | 8                   | 3 3/4 | 5 1/2            | 16          | 4 1/4 | 6 3/4            | 9                   | 4     | 6                | 13         | 4 1/4 | 5 1/2            | 36                                      | 27                                         | 10                                    | 3 7/8 | 6                | N/A                                    |       |                  | 9                                   | 3 3/4 | 5 1/2            | 9                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 11'-5"       |       |        |
| 12'-5"                                                                                                | 445            | 10                    | 3 7/8 | 6                | 6                 | 3 5/8 | 6                | 8                      | 3 3/4 | 6                | 6                   | 3 3/4 | 5 1/2            | 9           | 4 1/4 | 6 3/4            | 8                   | 4     | 6                | 10         | 4 1/4 | 5 1/2            | 30                                      | 20                                         | 9                                     | 3 7/8 | 6                | N/A                                    |       |                  | 9                                   | 3 3/4 | 5 1/2            | 8                           | 4 1/4 | 6 3/4            | 7                                | 4     | 6 1/4            | 6 13/16            | 12'-5"       |       |        |
| 13'-5"                                                                                                | 546            | 10                    | 5 1/8 | 7 7/8            | 7                 | 4 1/2 | 6                | 7                      | 4 5/8 | 7                | 7                   | 4 1/2 | 6                | 10          | 5     | 7                | N/A                 |       |                  | 10         | 5     | 6 1/4            | 36                                      | 29                                         | 9                                     | 5 1/8 | 7 7/8            | N/A                                    |       |                  | 7                                   | 4 1/2 | 6                | N/A                         |       |                  | 9                                | 5 1/2 | 8 1/2            | 6 7/8              | 13'-5"       |       |        |
| 14'-5"                                                                                                | 546            | 9                     | 5 1/8 | 7 7/8            | 5                 | 4 1/2 | 6                | 5                      | 4 5/8 | 7                | 5                   | 4 1/2 | 6                | 9           | 5     | 7                | N/A                 |       |                  | 6          | 5     | 6 1/4            | 36                                      | 25                                         | 8                                     | 5 1/8 | 7 7/8            | N/A                                    |       |                  | 5                                   | 4 1/2 | 6                | N/A                         |       |                  | 8                                | 5 1/2 | 8 1/2            | 6 7/8              | 14'-5"       |       |        |
| 15'-5"                                                                                                | 546            | 7                     | 5 1/8 | 7 7/8            | N/A               |       |                  | N/A                    |       |                  | 7                   | 5     | 7                | N/A         |       |                  | N/A                 |       |                  | N/A        |       |                  | 31                                      | 21                                         | N/A                                   |       |                  | N/A                                    |       |                  | N/A                                 |       |                  | N/A                         |       |                  | 6                                | 5 1/2 | 8 1/2            | 6 7/8              | 15'-5"       |       |        |
| 16'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 8                 | 5 1/2 | 8                | N/A                    |       |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 13         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 12                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 8                                   | 5 1/2 | 8                | N/A                         |       |                  | 11                               | 6 1/4 | 10               | 7 1/2              | 16'-5"       |       |        |
| 17'-5"                                                                                                | 548            | 11                    | 5 3/4 | 8 3/4            | 7                 | 5 1/2 | 8                | N/A                    |       |                  | 9                   | 5 1/2 | 8                | 11          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 12         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 11                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 8                                   | 5 1/2 | 8                | N/A                         |       |                  | 10                               | 6 1/4 | 10               | 7 1/2              | 17'-5"       |       |        |
| 18'-5"                                                                                                | 548            | 10                    | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 10          | 6 1/4 | 8 1/8            | N/A                 |       |                  | 11         | 6 5/8 | 7 7/8            | 36                                      | 36                                         | 11                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 7                                   | 5 1/2 | 8                | N/A                         |       |                  | 10                               | 6 1/4 | 10               | 7 1/2              | 18'-5"       |       |        |
| 19'-5"                                                                                                | 648            | 9                     | 5 3/4 | 8 3/4            | 5                 | 5 1/2 | 8                | N/A                    |       |                  | 7                   | 5 1/2 | 8                | 9           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 8          | 6 5/8 | 7 7/8            | 36                                      | 33                                         | 10                                    | 5 3/4 | 8 3/4            | N/A                                    |       |                  | 6                                   | 5 1/2 | 8                | N/A                         |       |                  | 9                                | 6 1/4 | 10               | 7 1/2              | 19'-5"       |       |        |
| 20'-5"                                                                                                | 648            | 7                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | 5                   | 5 1/2 | 8                | 7           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 36                                      | 28                                         | 8                                     | 5 3/4 | 8 3/4            | N/A                                    |       |                  | N/A                                 |       |                  | N/A                         |       |                  | 7                                | 6 1/4 | 10               | 7 1/2              | 20'-5"       |       |        |
| 21'-5"                                                                                                | 648            | 5                     | 5 3/4 | 8 3/4            | N/A               |       |                  | N/A                    |       |                  | N/A                 |       |                  | 5           | 6 1/4 | 8 1/8            | N/A                 |       |                  | N/A        |       |                  | 35                                      | 24                                         | N/A                                   |       |                  | N/A                                    |       |                  | N/A                                 |       |                  | N/A                         |       |                  | 5                                | 6 1/4 | 10               | 7 1/2              | 21'-5"       |       |        |
| 22'-5"                                                                                                | DC6            | 9                     | 5 3/4 | 8 3/4            | 6                 | 5 1/2 | 8                | N/A                    |       |                  | 8                   | 5 1/2 | 8                | 8           | 6 1/4 | 8 1/8            | N/A                 |       |                  | 9          | 6 5/8 | 7 7/8            | 36                                      | 33                                         | 9                                     | 5 3/4 | 8 3/4            | 7                                      |       |                  | 4 1/2                               | 6     | 7                | 5 1/2                       | 8     | N/A              |                                  |       | 8                | 6 1/4              | 10           | 9 1/4 | 22'-5" |

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

|      |                         |            |     |        |
|------|-------------------------|------------|-----|--------|
| L/TR | REVISION                | DATE       | BY  | E.C.O. |
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| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 100 PSF - Continued    |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |        |                     |                       |                 |       |        |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|-------|---------------------|-------------------|-------|---------------------|------------------------|-------|---------------------|---------------------|-------|---------------------|-------------|-------|---------------------|---------------------|-------|---------------------|------------|-------|---------------------|-----------------------------------------------|--------------------------------------------------|------------------------------------------|-------|---------------------|-------------------------------------------|-------|---------------------|----------------------------------------|-------|---------------------|-----------------------------|-------|---------------------|-------------------------------------|--------|---------------------|-----------------------|-----------------|-------|--------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |       |                     |                   |       |                     |                        |       |                     |                     |       |                     |             |       |                     |                     |       |                     |            |       |                     |                                               |                                                  |                                          |       |                     |                                           |       |                     |                                        |       |                     |                             |       |                     |                                     |        |                     |                       |                 |       |        |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |       |                     | Hilti Kwik Bolt 1 |       |                     | Powers Power-Stud+ SD1 |       |                     | Hilti Kwik Bolt TZ2 |       |                     | Hilti KH-EZ |       |                     | ITW Redhead Trubolt |       |                     | Hilti HVU2 |       |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. | Through Bolting -<br>Stainless Steel Max<br>O.C. | Simpson Strong-Bolt 2<br>Stainless Steel |       |                     | Powers Power-Stud+ SD4<br>Stainless Steel |       |                     | Hilti Kwik Bolt TZ2 Stainless<br>Steel |       |                     | Hilti KH-EZ Stainless Steel |       |                     | Simpson Titen HD Stainless<br>Steel |        |                     | Min. Edge<br>Distance | D.B.G.<br>Up To |       |        |
|                                                                                                       |                   | Max O.C.              | Embed | Min. Wall<br>Thick. | Max O.C.          | Embed | Min. Wall<br>Thick. | Max O.C.               | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.    | Embed | Min. Wall<br>Thick. | Max O.C.            | Embed | Min. Wall<br>Thick. | Max O.C.   | Embed | Min. Wall<br>Thick. |                                               |                                                  | Max O.C.                                 | Embed | Min. Wall<br>Thick. | Max O.C.                                  | Embed | Min. Wall<br>Thick. | Max O.C.                               | Embed | Min. Wall<br>Thick. | Max O.C.                    | Embed | Min. Wall<br>Thick. | Max O.C.                            | Embed  | Min. Wall<br>Thick. |                       |                 |       |        |
| 5'-5"                                                                                                 | 344*              | N/A                   |       |                     | 15                | 2 3/8 | 4                   | 13                     | 2 3/8 | 3 3/4               | 15                  | 2 1/2 | 4                   | 20          | 2 1/2 | 4                   | 10                  | 2 1/4 | 4                   | 18         | 3 1/2 | 4 3/4               | 24                                            | 18                                               | N/A                                      |       |                     | 13                                        | 1 7/8 | 3 1/4               | 15                                     | 2 1/2 | 4                   | 20                          | 2 1/2 | 4                   | 21                                  | 2 1/2  | 4                   | 5 3/4                 | 5'-5"           |       |        |
| 6'-5"                                                                                                 | 344*              | N/A                   |       |                     | 12                | 2 3/8 | 4                   | 11                     | 2 3/8 | 3 3/4               | 14                  | 2 1/2 | 4                   | 18          | 2 1/2 | 4                   | 8                   | 2 1/4 | 4                   | 15         | 3 1/2 | 4 3/4               | 20                                            | 16                                               | N/A                                      |       |                     | N/A                                       |       |                     | 13                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 19                                  | 2 1/2  | 4                   | 5 3/4                 | 6'-5"           |       |        |
| 7'-5"                                                                                                 | 344*              | N/A                   |       |                     | 11                | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 13                  | 2 1/2 | 4                   | 17          | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 13         | 3 1/2 | 4 3/4               | 17                                            | 13                                               | N/A                                      |       |                     | N/A                                       |       |                     | 12                                     | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 18                                  | 3 1/4  | 5                   | 5 3/4                 | 7'-5"           |       |        |
| 8'-5"                                                                                                 | 344*              | N/A                   |       |                     | 5                 | 2 3/8 | 4                   | 5                      | 2 3/8 | 4                   | 5                   | 2 1/2 | 4                   | 16          | 2 1/2 | 4                   | 5                   | 2 1/4 | 4                   | 11         | 3 1/2 | 4 3/4               | 15                                            | 12                                               | N/A                                      |       |                     | N/A                                       |       |                     | 5                                      | 2 1/2 | 4                   | 5                           | 2 1/2 | 4                   | 6                                   | 3 1/4  | 5                   | 5 3/4                 | 8'-5"           |       |        |
| 11'-5"                                                                                                | 445               | 8                     | 3 7/8 | 6                   | N/A               |       |                     | 7                      | 3 3/4 | 6                   | 5                   | 3     | 5                   | 9           | 4 1/4 | 6 3/4               | 7                   | 4     | 6                   | 5          | 4 1/4 | 5 1/2               | 27                                            | 18                                               | 8                                        | 3 7/8 | 6                   | N/A                                       |       |                     | 7                                      | 3 3/4 | 5 1/2               | 7                           | 4 1/4 | 6 3/4               | 6                                   | 4      | 6 1/4               | 6 13/16               | 11'-5"          |       |        |
| 12'-5"                                                                                                | 446               | 10                    | 5 1/8 | 7 7/8               | 7                 | 4 1/2 | 6                   | 7                      | 4 5/8 | 7                   | 7                   | 4 1/2 | 6                   | 10          | 5     | 7                   | N/A                 |       |                     | 10         | 5     | 6 1/4               | 36                                            | 31                                               | 9                                        | 5 1/8 | 7 7/8               | N/A                                       |       |                     | 7                                      | 4 1/2 | 6                   | N/A                         |       |                     | 9                                   | 5 1/2  | 8 1/2               | 6 7/8                 | 12'-5"          |       |        |
| 13'-5"                                                                                                | 546               | 7                     | 5 1/8 | 7 7/8               | N/A               |       |                     | N/A                    |       |                     | 7                   | 5     | 7                   | N/A         |       |                     | N/A                 |       |                     | 10         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | N/A                                      |       |                     | N/A                                       |       |                     | 11                                     | 5 3/4 | 8 3/4               | N/A                         |       |                     | 7                                   | 5 1/2  | 8                   | 6 1/4                 | 10              | 7 1/2 | 14'-5" |
| 14'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               | N/A                 |       |                     | 11         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 11                                       | 5 3/4 | 8 3/4               | N/A                                       |       |                     | 7                                      | 5 1/2 | 8                   | N/A                         |       |                     | 9                                   | 6 1/4  | 10                  | 7 1/2                 | 14'-5"          |       |        |
| 15'-5"                                                                                                | 548               | 10                    | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 8                   | 5 1/2 | 8                   | 10          | 6 1/4 | 8 1/8               | N/A                 |       |                     | 11         | 6 5/8 | 7 7/8               | 36                                            | 36                                               | 11                                       | 5 3/4 | 8 3/4               | N/A                                       |       |                     | 7                                      | 5 1/2 | 8                   | N/A                         |       |                     | 10                                  | 6 1/4  | 10                  | 7 1/2                 | 15'-5"          |       |        |
| 16'-5"                                                                                                | 548               | 9                     | 5 3/4 | 8 3/4               | 5                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 9           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 7          | 6 5/8 | 7 7/8               | 36                                            | 34                                               | 9                                        | 5 3/4 | 8 3/4               | N/A                                       |       |                     | 6                                      | 5 1/2 | 8                   | N/A                         |       |                     | 8                                   | 6 1/4  | 10                  | 7 1/2                 | 16'-5"          |       |        |
| 17'-5"                                                                                                | 648               | 8                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            | 30                                               | 8                                        | 5 3/4 | 8 3/4               | N/A                                       |       |                     | N/A                                    |       |                     | 7                           | 6 1/4 | 10                  | 7 1/2                               | 17'-5" |                     |                       |                 |       |        |
| 18'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 5                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       |                     | N/A        |       |                     | 36                                            | 29                                               | 8                                        | 5 3/4 | 8 3/4               | N/A                                       |       |                     | N/A                                    |       |                     | 7                           | 6 1/4 | 10                  | 7 1/2                               | 18'-5" |                     |                       |                 |       |        |
| 19'-5"                                                                                                | 648               | 7                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | 6                   | 6 1/4 | 8 1/8               | N/A         |       |                     | N/A                 |       |                     | N/A        |       |                     | 36                                            | 27                                               | 7                                        | 5 3/4 | 8 3/4               | N/A                                       |       |                     | N/A                                    |       |                     | 6                           | 6 1/4 | 10                  | 7 1/2                               | 19'-5" |                     |                       |                 |       |        |
| 20'-5"                                                                                                | 648               | 5                     | 5 3/4 | 8 3/4               | N/A               |       |                     | N/A                    |       |                     | N/A                 |       |                     | N/A         |       |                     | N/A                 |       |                     | N/A        |       |                     | 34                                            | 23                                               | N/A                                      |       |                     | N/A                                       |       |                     | N/A                                    |       |                     | 7                           | 7 1/2 | 20'-5"              |                                     |        |                     |                       |                 |       |        |
| 21'-5"                                                                                                | DC6               | 8                     | 5 3/4 | 8 3/4               | 6                 | 5 1/2 | 8                   | N/A                    |       |                     | 7                   | 5 1/2 | 8                   | 7           | 6 1/4 | 8 1/8               | N/A                 |       |                     | 7          | 6 5/8 | 7 7/8               | 36                                            | 31                                               | 9                                        | 5 3/4 | 8 3/4               | 7                                         | 4 1/2 | 6                   | 6                                      | 5 1/2 | 8                   | N/A                         |       |                     | 7                                   | 6 1/4  | 10                  | 9 1/4                 | 21'-5"          |       |        |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 120 PSF |                           |       |                 |                   |                             |                                  |                                 |                                                 |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                |      |       |                                                                  |       |               |                    |              |                       |               |                          |              |                            |                               |                            |                               |                  |                    |        |        |        |                 |
|----------------------------------------------------------------------------------------|---------------------------|-------|-----------------|-------------------|-----------------------------|----------------------------------|---------------------------------|-------------------------------------------------|------|-------|---------------------------|------|-------|-----------------------|------|-------|-------------|------|-------|-----------------------------|------|-------|--------------------------------|------|-------|------------------------------------------------------------------|-------|---------------|--------------------|--------------|-----------------------|---------------|--------------------------|--------------|----------------------------|-------------------------------|----------------------------|-------------------------------|------------------|--------------------|--------|--------|--------|-----------------|
| Guide Construction                                                                     |                           |       |                 |                   |                             |                                  |                                 | Filled CMU                                      |      |       |                           |      |       |                       |      |       |             |      |       |                             |      |       |                                |      |       | Steel (Wall anchors are the same diameter as assembly fasteners) |       |               |                    |              |                       |               |                          |              |                            |                               |                            |                               |                  |                    |        |        |        |                 |
| D.B.G.<br>Up To                                                                        | Windlock Flat<br>Location | Slip  | Windlock        | Guide<br>Assembly | Windlock Flat<br>Weld Pitch | Assembly<br>Fastener<br>Diameter | Assembly<br>Fastener<br>Spacing | Hilti Kwik Bolt TZ2<br>Carbon & Stainless Steel |      |       | Powers Power-Stud+<br>SD1 |      |       | Simpson Strong-Bolt 2 |      |       | Hilti KH-EZ |      |       | Simpson Strong-Tie<br>Titen |      |       | Hilti KH-EZ Stainless<br>Steel |      |       | Simpson Strong-Tie<br>Titen Stainless Steel                      |       |               | Through<br>Bolting |              | Min. Edge<br>Distance | Welded        |                          | Through Bolt |                            |                               | Tapped Bolt                |                               |                  | Superimposed Loads |        |        |        | D.B.G.<br>Up To |
|                                                                                        |                           |       |                 |                   |                             |                                  |                                 | Max O.C.                                        | Dia. | Embed | Max O.C.                  | Dia. | Embed | Max O.C.              | Dia. | Embed | Max O.C.    | Dia. | Embed | Max O.C.                    | Dia. | Embed | Max O.C.                       | Dia. | Embed | Max O.C.                                                         | Dia.  | Embed         | Max O.C.           | Dia.         |                       | Slot Max O.C. | Heel and Toe<br>Max O.C. | Slot Size    | Carbon Steel -<br>Max O.C. | Stainless Steel -<br>Max O.C. | Carbon Steel -<br>Max O.C. | Stainless Steel<br>- Max O.C. | Min<br>Thickness | Vx (+)             | Vy (+) | Vx (-) | Vy (-) |                 |
| 5'-5"                                                                                  | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 11                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 12                    | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | 9                           | 1/2  | 4 1/4 | N/A                            | N/A  | 8     | 3/8                                                              | 5 3/4 | 36            | 36                 | 7/16" x 5/8" | 36                    | 36            | 36                       | 32           | 3/16                       | 0                             | 330                        | 0                             | 325              | 5'-5"              |        |        |        |                 |
| 6'-5"                                                                                  | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 24                              | 10                                              | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 9                     | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | 8                           | 3/8  | 5 3/4 | 36                             | 36   | 8     | 3/8                                                              | 5 3/4 | 36            | 36                 | 7/16" x 5/8" | 36                    | 36            | 32                       | 27           | 3/16                       | 0                             | 390                        | 0                             | 385              | 6'-5"              |        |        |        |                 |
| 7'-5"                                                                                  | N/A                       | N/A   | N/A             | 344*              | N/A                         | 3/8                              | 21                              | 8                                               | 3/4  | 5 1/2 | N/A                       | N/A  | N/A   | 8                     | 1/2  | 4 1/4 | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | N/A                            | 8    | 3/8   | 5 3/4                                                            | 36    | 36            | 7/16" x 5/8"       | 36           | 36                    | 28            | 23                       | 3/16         | 0                          | 450                           | 0                          | 445                           | 7'-5"            |                    |        |        |        |                 |
| 11'-5"                                                                                 | 1 3/16                    | 0.344 | CP0630 & CP0647 | 546               | 6                           | 5/8                              | 13                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 5/8  | 6 7/8 | 8                                                                | 12    | 11/16" x 7/8" | 14                 | 9            | 5                     | N/A           | 5/16                     | 2134         | 690                        | 2051                          | 691                        | 11'-5"                        |                  |                    |        |        |        |                 |
| 12'-5"                                                                                 | 1 1/4                     | 0.406 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 16                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4  | 7 1/2 | 12                                                               | 13    | 7/8" x 1"     | 26                 | 18           | 9                     | 7             | 3/8                      | 2635         | 753                        | 2530                          | 752                        | 12'-5"                        |                  |                    |        |        |        |                 |
| 13'-5"                                                                                 | 1 3/8                     | 0.531 | CP0630 & CP0647 | 548               | 6                           | 3/4                              | 15                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4  | 7 1/2 | 11                                                               | 12    | 7/8" x 1"     | 25                 | 17           | 9                     | 6             | 3/8                      | 2776         | 812                        | 2688                          | 811                        | 13'-5"                        |                  |                    |        |        |        |                 |
| 14'-5"                                                                                 | 1 7/16                    | 0.594 | CP0630 & CP0647 | DC6               | 5                           | 3/4                              | 13                              | N/A                                             | N/A  | N/A   | N/A                       | N/A  | N/A   | N/A                   | N/A  | N/A   | N/A         | N/A  | N/A   | N/A                         | N/A  | N/A   | 8                              | 3/4  | 9 1/4 | 10                                                               | 11    | 7/8" x 1"     | 20                 | 14           | 8                     | 5             | 3/8                      | 3173         | 872                        | 3093                          | 872                        | 14'-5"                        |                  |                    |        |        |        |                 |

| CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 120 PSF - Continued    |                   |                       |          |                     |                   |          |                     |                        |          |                     |                     |          |                     |             |          |                     |                     |          |                     |            |          |                     |                                               |          |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |        |    |                       |                 |
|-------------------------------------------------------------------------------------------------------|-------------------|-----------------------|----------|---------------------|-------------------|----------|---------------------|------------------------|----------|---------------------|---------------------|----------|---------------------|-------------|----------|---------------------|---------------------|----------|---------------------|------------|----------|---------------------|-----------------------------------------------|----------|--------------------------------------------------|----------|------------------------------------------|---------------------|----------|-------------------------------------------|---------------------|----------|----------------------------------------|---------------------|----------|-----------------------------|---------------------|-------|-------------------------------------|--------|----|-----------------------|-----------------|
| Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners) |                   |                       |          |                     |                   |          |                     |                        |          |                     |                     |          |                     |             |          |                     |                     |          |                     |            |          |                     |                                               |          |                                                  |          |                                          |                     |          |                                           |                     |          |                                        |                     |          |                             |                     |       |                                     |        |    |                       |                 |
| D.B.G.<br>Up To                                                                                       | Guide<br>Assembly | Simpson Strong-Bolt 2 |          |                     | Hilti Kwik Bolt 1 |          |                     | Powers Power-Stud+ SD1 |          |                     | Hilti Kwik Bolt T22 |          |                     | Hilti KH-EZ |          |                     | ITW Redhead Trubolt |          |                     | Hilti HVU2 |          |                     | Through Bolting -<br>Carbon Steel Max<br>O.C. |          | Through Bolting -<br>Stainless Steel Max<br>O.C. |          | Simpson Strong-Bolt 2<br>Stainless Steel |                     |          | Powers Power-Stud+ SD4<br>Stainless Steel |                     |          | Hilti Kwik Bolt T22 Stainless<br>Steel |                     |          | Hilti KH-EZ Stainless Steel |                     |       | Simpson Titen HD Stainless<br>Steel |        |    | Min. Edge<br>Distance | D.B.G.<br>Up To |
|                                                                                                       |                   | Max O.C.              | Embedded | Min. Wall<br>Thick. | Max O.C.          | Embedded | Min. Wall<br>Thick. | Max O.C.               | Embedded | Min. Wall<br>Thick. | Max O.C.            | Embedded | Min. Wall<br>Thick. | Max O.C.    | Embedded | Min. Wall<br>Thick. | Max O.C.            | Embedded | Min. Wall<br>Thick. | Max O.C.   | Embedded | Min. Wall<br>Thick. | Max O.C.                                      | Embedded | Min. Wall<br>Thick.                              | Max O.C. | Embedded                                 | Min. Wall<br>Thick. | Max O.C. | Embedded                                  | Min. Wall<br>Thick. | Max O.C. | Embedded                               | Min. Wall<br>Thick. | Max O.C. | Embedded                    | Min. Wall<br>Thick. |       |                                     |        |    |                       |                 |
| 5"-5"                                                                                                 | 344"              | N/A                   |          |                     | 12                | 2 3/8    | 4                   | 11                     | 2 3/8    | 3 3/4               | 14                  | 2 1/2    | 4                   | 18          | 2 1/2    | 4                   | 8                   | 2 1/4    | 4                   | 15         | 3 1/2    | 4 3/4               | 20                                            |          | 15                                               |          | N/A                                      |                     |          | N/A                                       |                     |          | 13                                     | 2 1/2               | 4        | 5                           | 2 1/2               | 4     | 19                                  | 2 1/2  | 4  | 5 3/4                 | 6'-5"           |
| 6'-5"                                                                                                 | 344"              | N/A                   |          |                     | 10                | 2 3/8    | 4                   | 5                      | 2 3/8    | 4                   | 12                  | 2 1/2    | 4                   | 16          | 2 1/2    | 4                   | 5                   | 2 1/4    | 4                   | 12         | 3 1/2    | 4 3/4               | 17                                            |          | 13                                               |          | N/A                                      |                     |          | N/A                                       |                     |          | 12                                     | 2 1/2               | 4        | 5                           | 2 1/2               | 4     | 17                                  | 3 1/4  | 5  | 5 3/4                 | 6'-5"           |
| 7'-5"                                                                                                 | 344"              | N/A                   |          |                     | 5                 | 2 3/8    | 4                   | 5                      | 2 3/8    | 4                   | 5                   | 2 1/2    | 4                   | 5           | 2 1/2    | 4                   | 5                   | 2 1/4    | 4                   | 11         | 3 1/2    | 4 3/4               | 14                                            |          | 11                                               |          | N/A                                      |                     |          | N/A                                       |                     |          | 5                                      | 2 1/2               | 4        | 5                           | 2 1/2               | 4     | 6                                   | 3 1/4  | 5  | 5 3/4                 | 7'-5"           |
| 11'-5"                                                                                                | 546               | 6                     | 5 1/8    | 7 7/8               | N/A               |          |                     | N/A                    |          |                     | N/A                 |          |                     | 6           | 5        | 7                   | N/A                 |          |                     | N/A        |          |                     | 31                                            |          | 21                                               |          | N/A                                      |                     |          | N/A                                       |                     |          | N/A                                    |                     |          | 5                           | 5 1/2               | 8 1/2 | 6 7/8                               | 11'-5" |    |                       |                 |
| 12'-5"                                                                                                | 548               | 7                     | 5 3/4    | 8 3/4               | N/A               |          |                     | N/A                    |          |                     | 5                   | 5 1/2    | 8                   | 7           | 6 1/4    | 8 1/8               | N/A                 |          |                     | N/A        |          |                     | 36                                            |          | 33                                               |          | 8                                        | 5 3/4               | 8 3/4    | N/A                                       |                     |          | N/A                                    |                     |          | 7                           | 6 1/4               | 10    | 7 1/2                               | 12'-5" |    |                       |                 |
| 13'-5"                                                                                                | 548               | 6                     | 5 3/4    | 8 3/4               | N/A               |          |                     | N/A                    |          |                     | N/A                 |          |                     | 6           | 6 1/4    | 8 1/8               | N/A                 |          |                     | N/A        |          |                     | 36                                            |          | 30                                               |          | 7                                        | 5 3/4               | 8 3/4    | N/A                                       |                     |          | N/A                                    |                     |          | 6                           | 6 1/4               | 10    | 7 1/2                               | 13'-5" |    |                       |                 |
| 14'-5"                                                                                                | DC6               | 9                     | 5 3/4    | 8 3/4               | 7                 | 5 1/2    | 8                   | N/A                    |          |                     | 8                   | 5 1/2    | 8                   | 8           | 6 1/4    | 8 1/8               | N/A                 |          |                     | 9          | 6 5/8    | 7 7/8               | 36                                            |          | 36                                               |          | 10                                       | 5 3/4               | 8 3/4    | 8                                         | 4 1/2               | 6        | 8                                      | 5 1/2               | 8        | N/A                         |                     |       | 8                                   | 6 1/4  | 10 | 9 1/4                 | 14'-5"          |