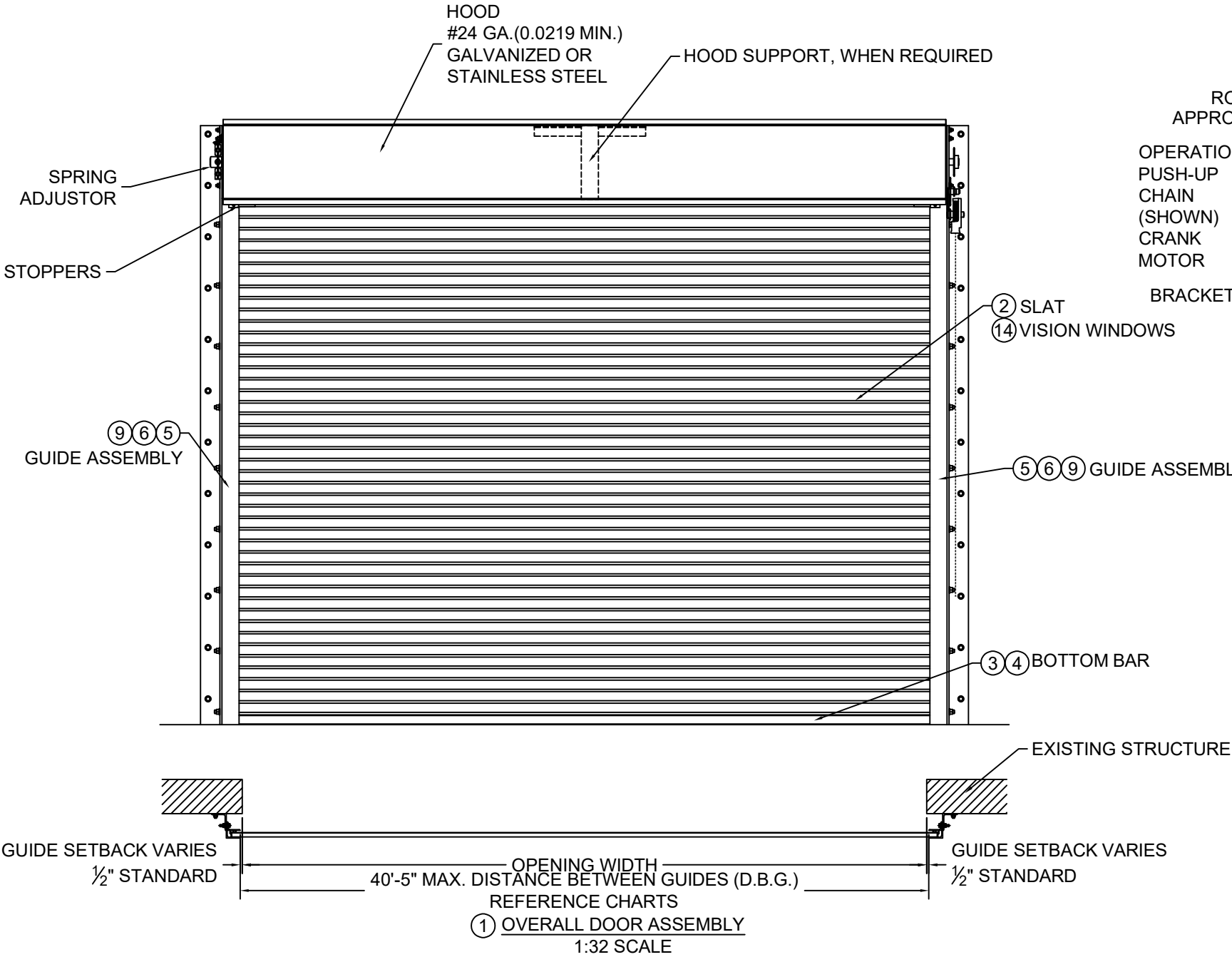
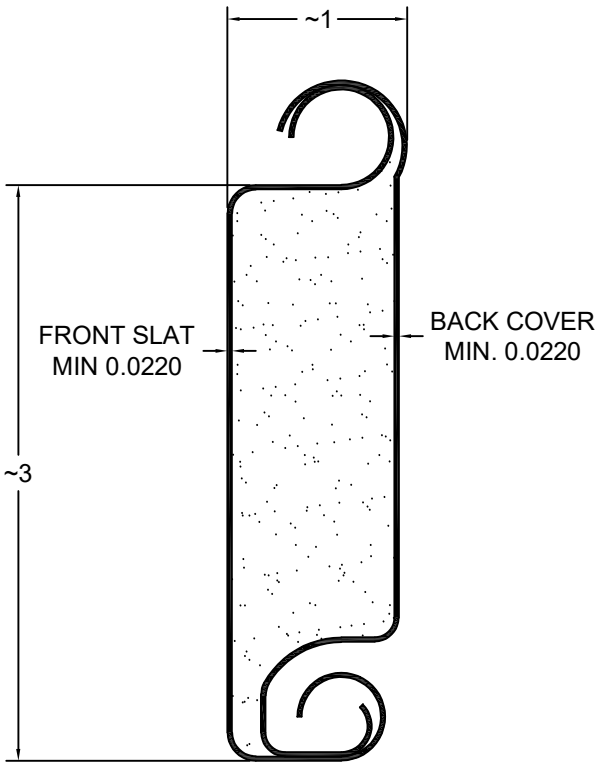
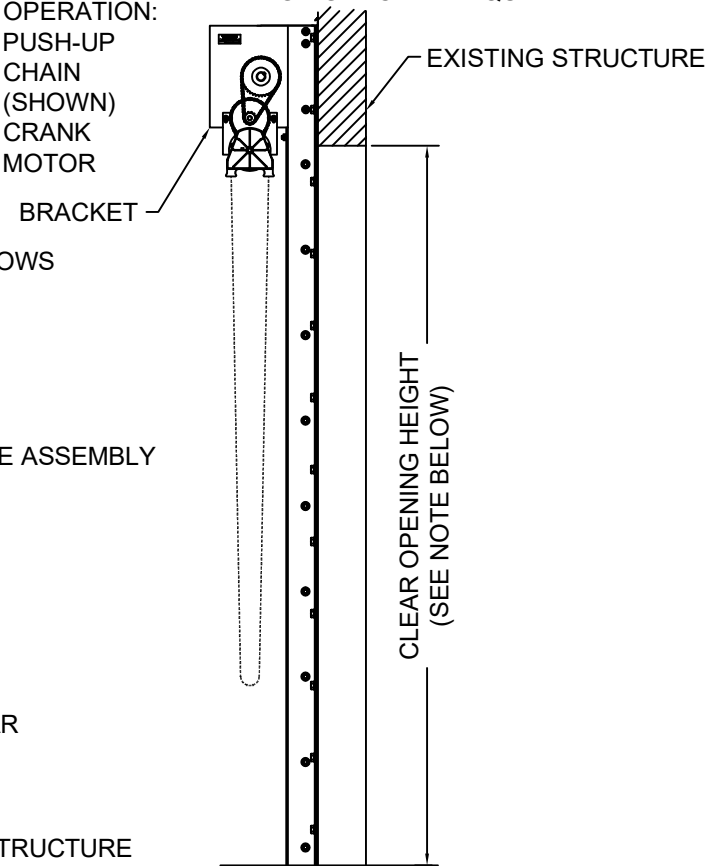


L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/26/2025	KAD	2398
A	REVISED WINDLOAD TABLES & VISION WINDOW	08/12/2026	KAD	2398



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
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

SHAWN PATRICK KELLEY
LICENSED PROFESSIONAL ENGINEER
No 58299
Digitally signed by shawn p kelley
Date: 2026.08.19 17:08:29 -04:00

shawn p
kelley

CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

Unless otherwise specified, dimensions are in inches & tolerances are:

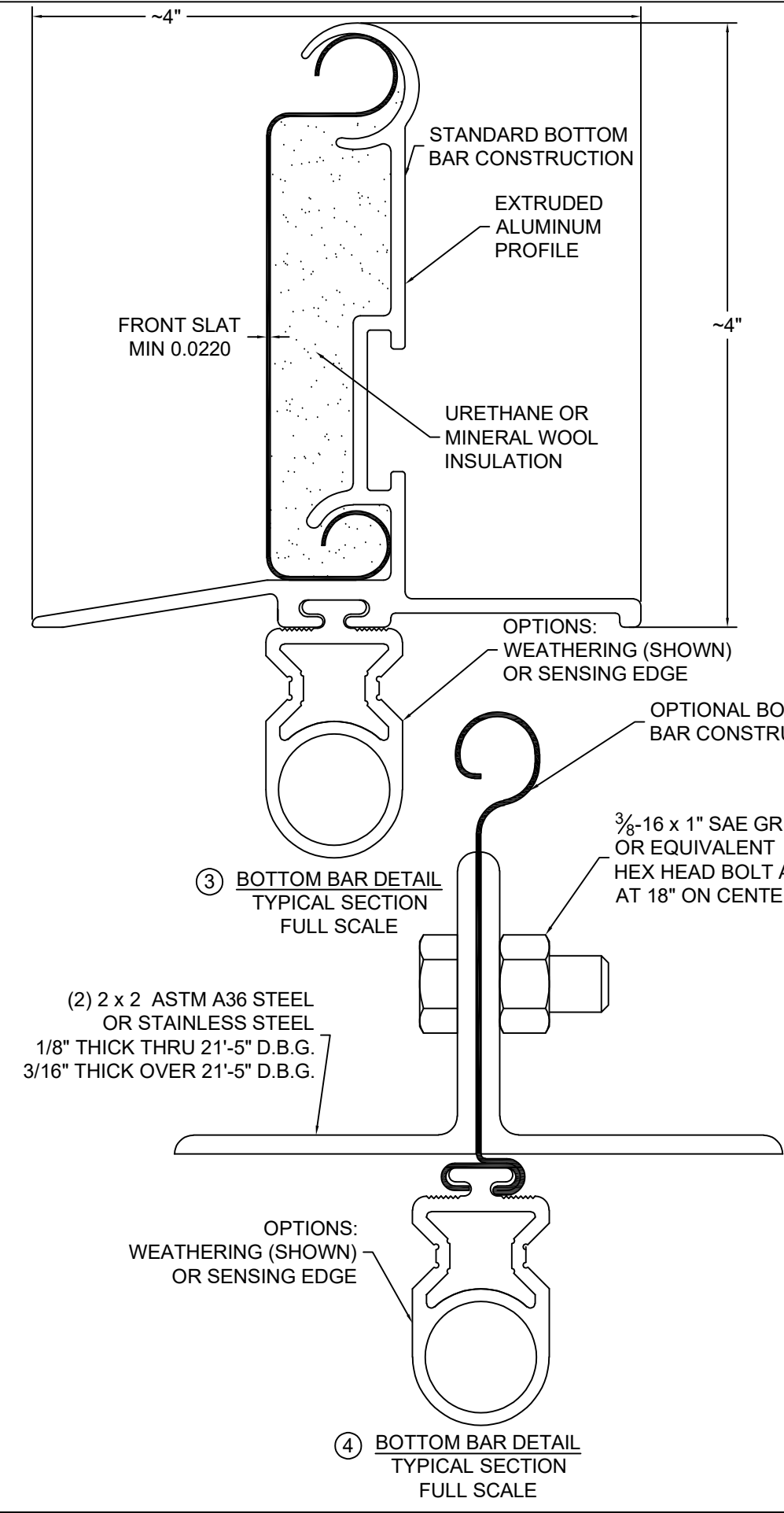
0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 1/59

DWG NO: ES-16-140-CLO

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:

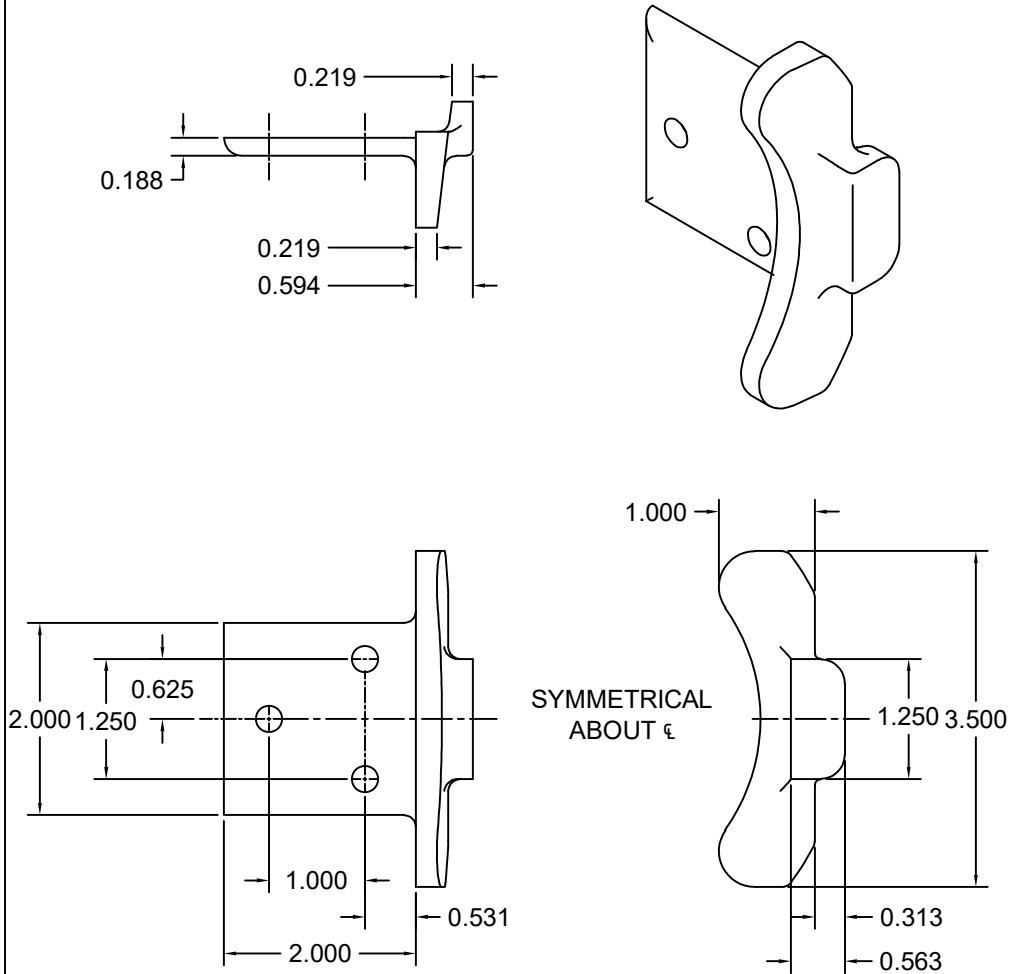
1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE STANDARD BUILDING CODE, THE INTERNATIONAL BUILDING CODE, AND THE FLORIDA BUILDING CODE.
2. THIS ROLL-UP DOOR HAS BEEN TESTED FOR UNIFORM STATIC PRESSURE, IMPACT AND FATIGUE RESISTANCE IN ACCORDANCE WITH THE FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES TAS 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.



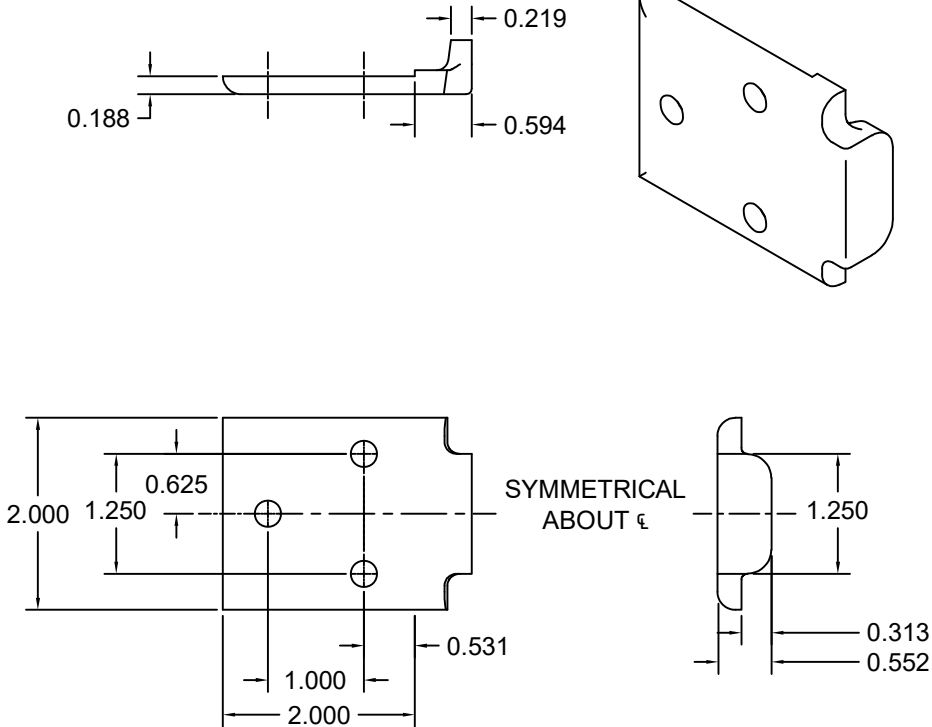
	CLOPAY CORPORATION 8585 DUKE BOULEVARD MASON, OH 45040		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
	P: 800.225.6729 F: 513.440.4853					
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED			DRAWN BY: KAD	SIZE: B	SCALE: AS NOTED	SHEET: 2/59
			DWG NO: ES-16-140-CLO			

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

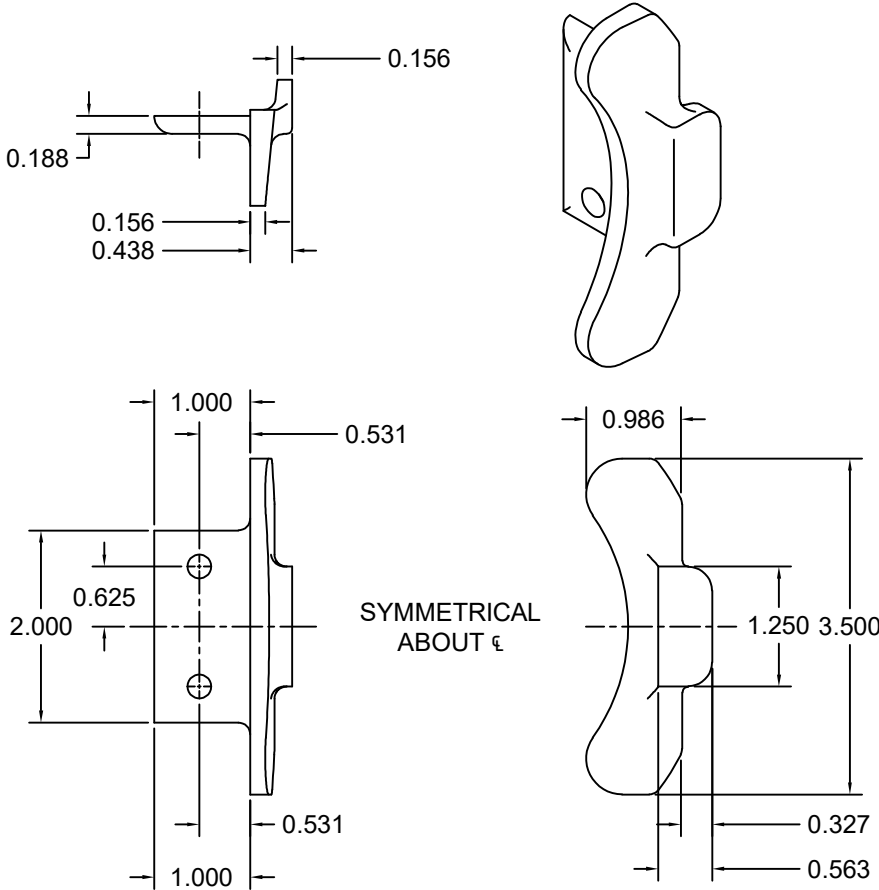
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/26/2025	KAD	2398
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⑪ CP0630 ENDLOCK / WINDLOCK DETAIL
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH
 ASTM A123, GRADE 85 ZINC-COATING
 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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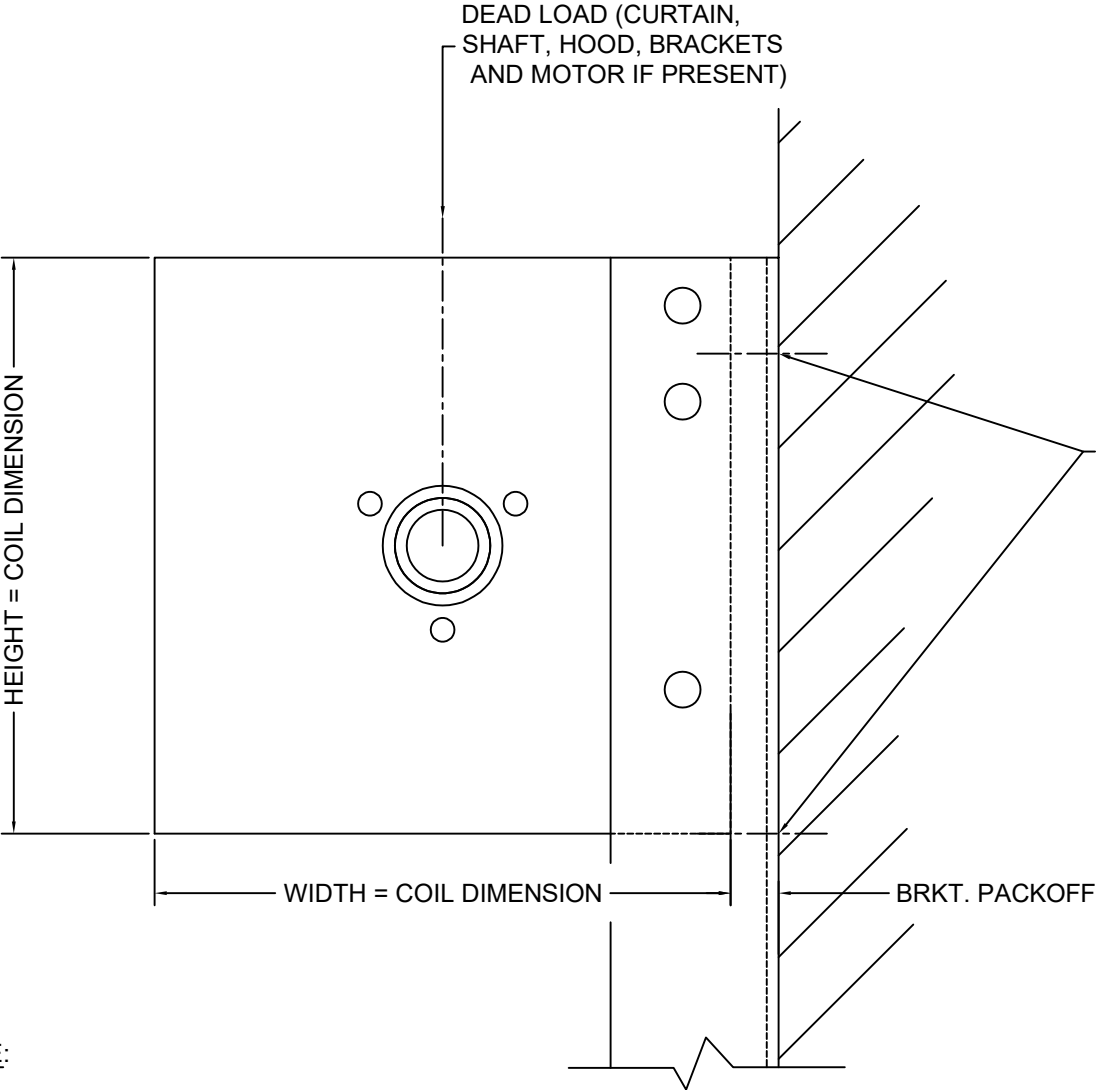
TITLE: **WIND LOAD CONFIGURATION**
INSULATED ROLLING STEEL DOOR
CP0001/CP0651 SLAT NON-IMPACT RATED

DRAWN BY: **KAD** SIZE: **B** SCALE: **AS NOTED** SHEET: **4/59**

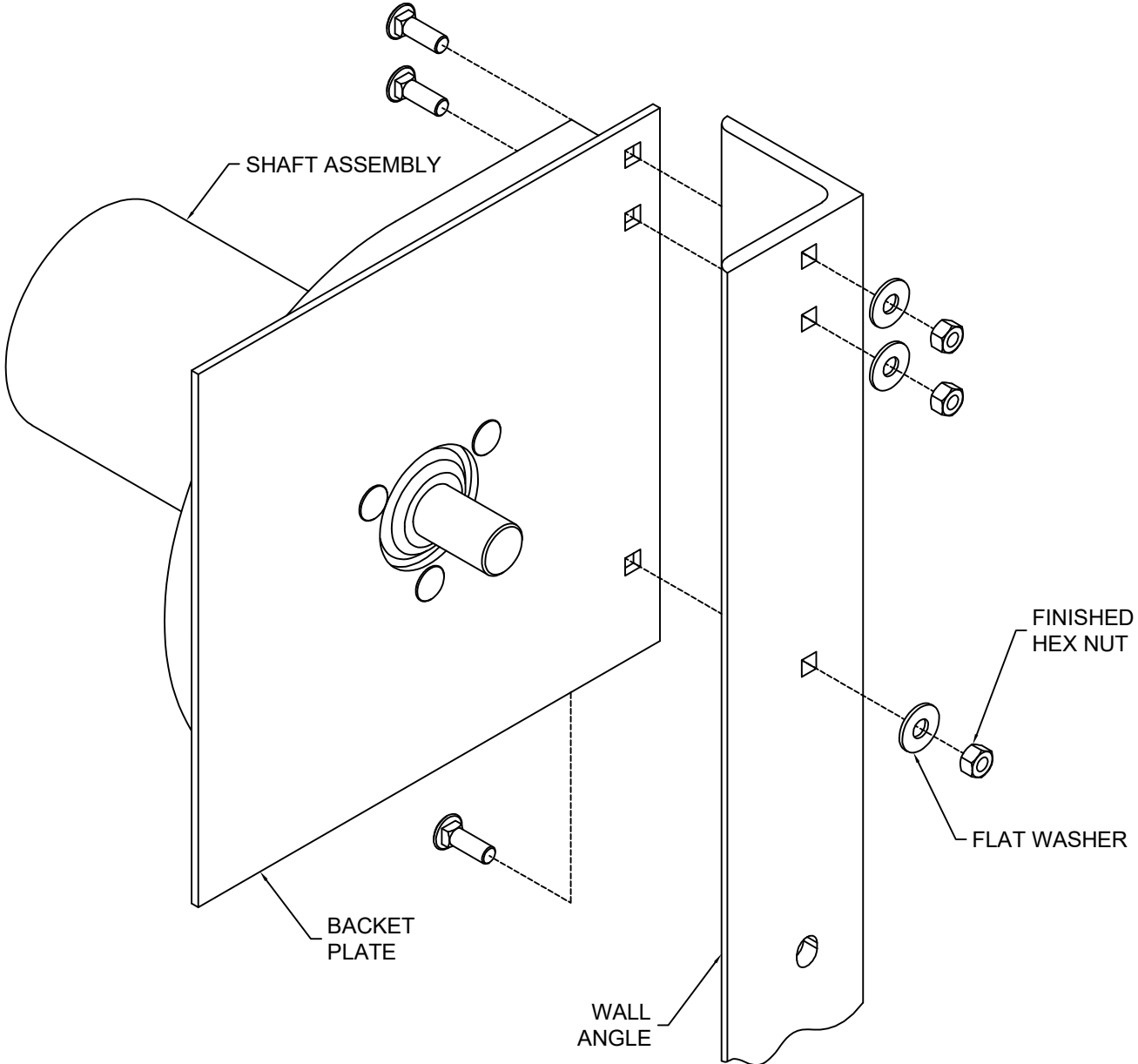
DWG NO: **ES-16-140-CLO**

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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".

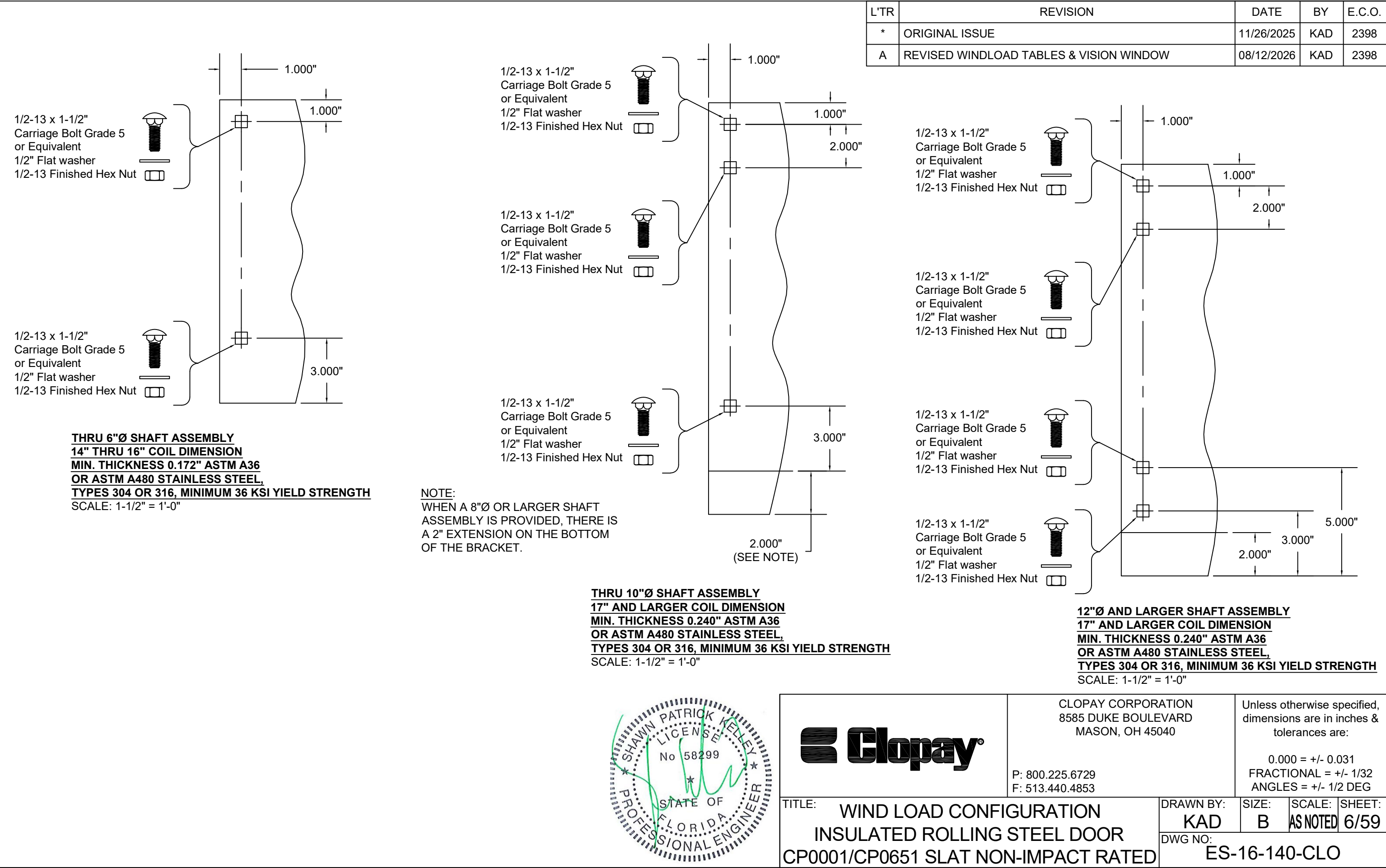


NOTE:
1. STANDARD BRACKET MOUNTING DETAIL IS DEPICTED, OTHER MOUNTINGS ARE AVAILABLE

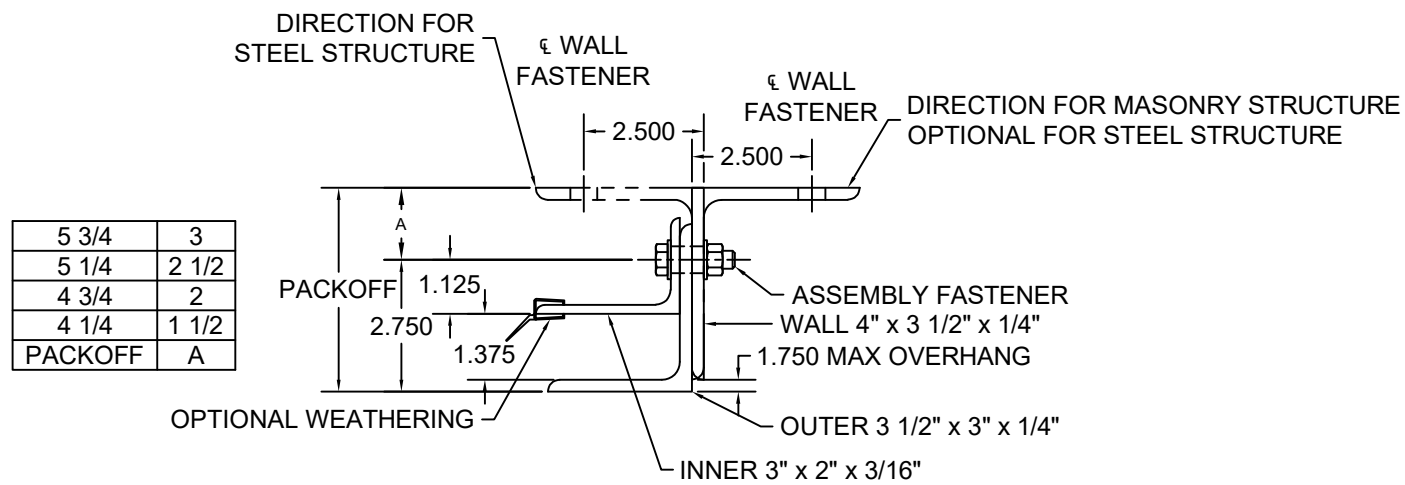


Clopay®		CLOPAY CORPORATION 8585 DUKE BOULEVARD MASON, OH 45040 P: 800.225.6729 F: 513.440.4853		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED			DRAWN BY: KAD	SIZE: B	SCALE: AS NOTED
			DWG NO: ES-16-140-CLO		
			SHEET: 5/59		

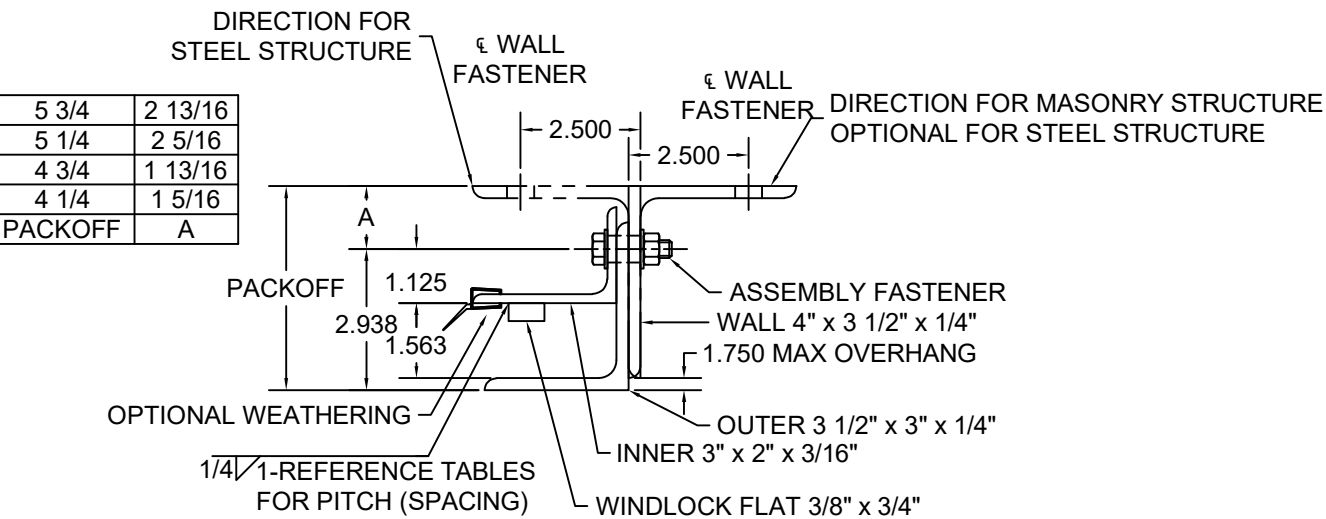
REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED



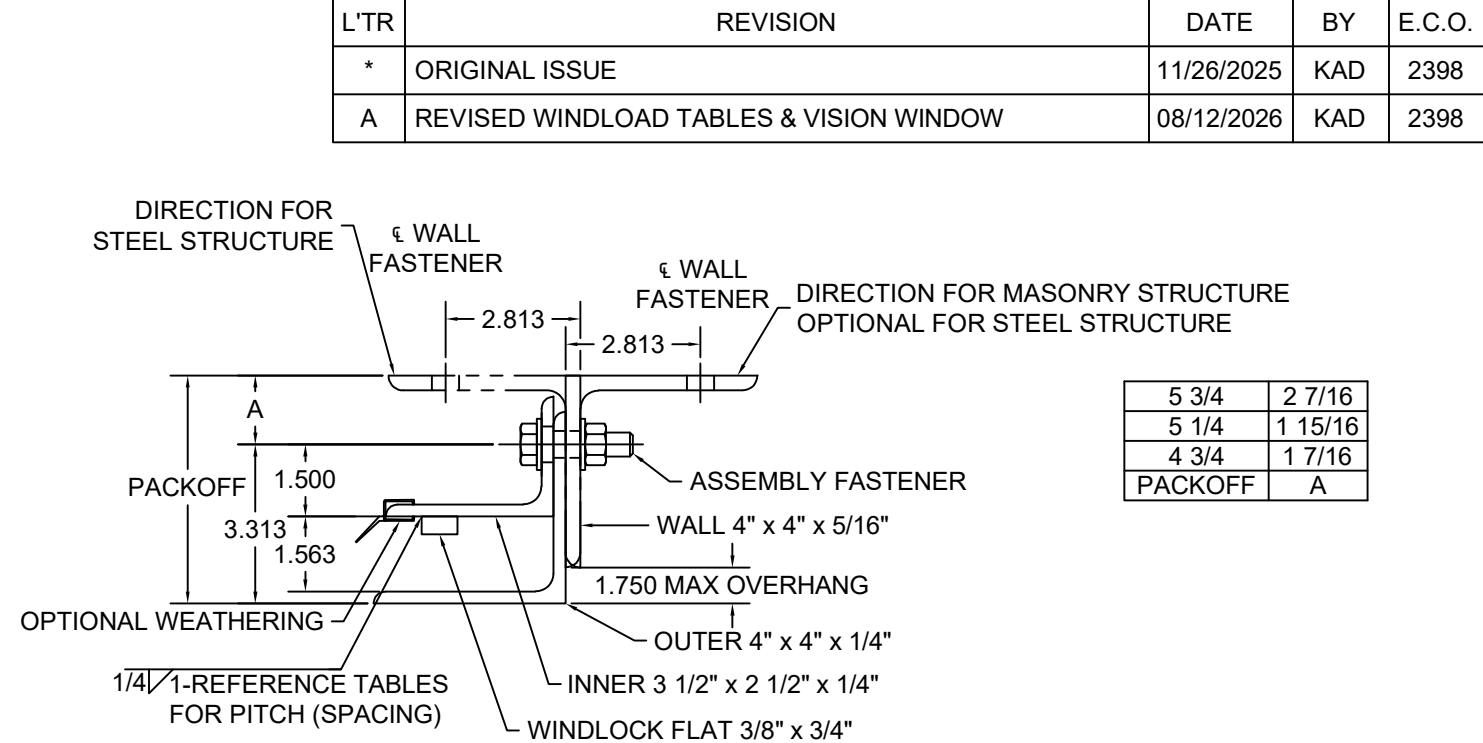
REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED



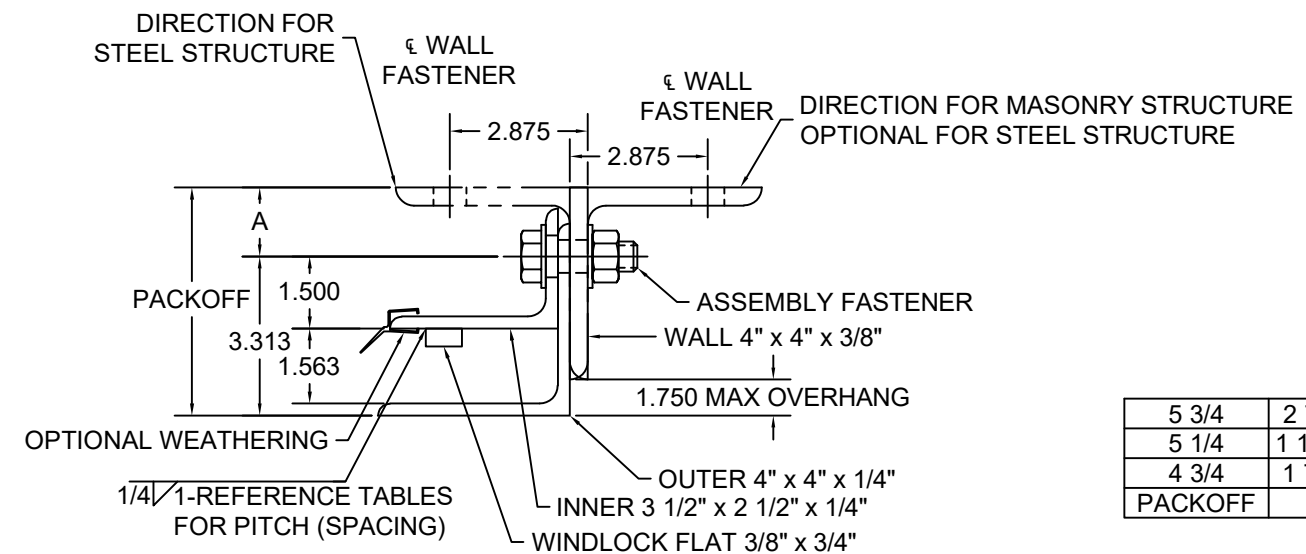
GUIDE ASSEMBLY TYPE 344* (NON-WINDLOCK)
SCALE: 3" = 1'-0"



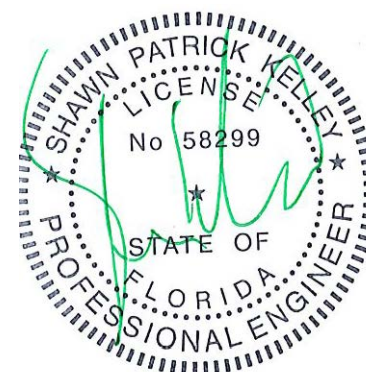
GUIDE ASSEMBLY TYPE 344
SCALE: 3" = 1'-0"



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



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



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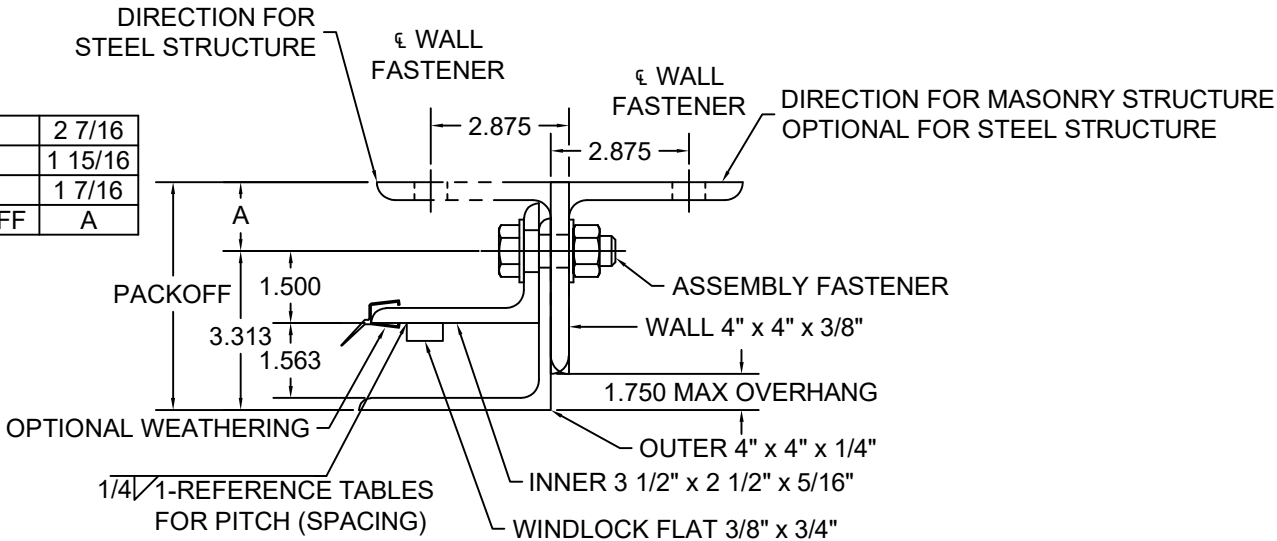
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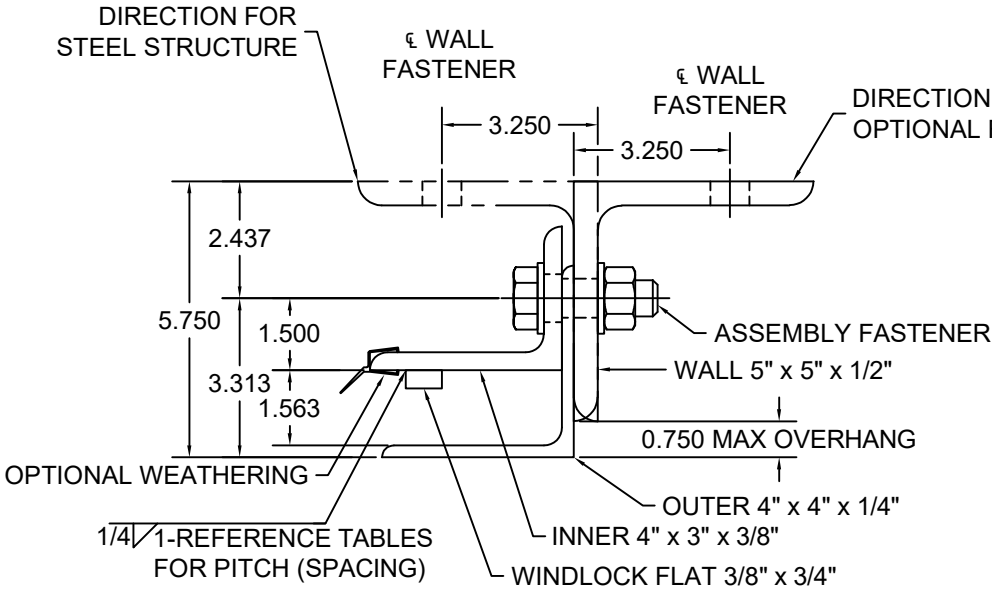
DWG NO: ES-16-140-CLO

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

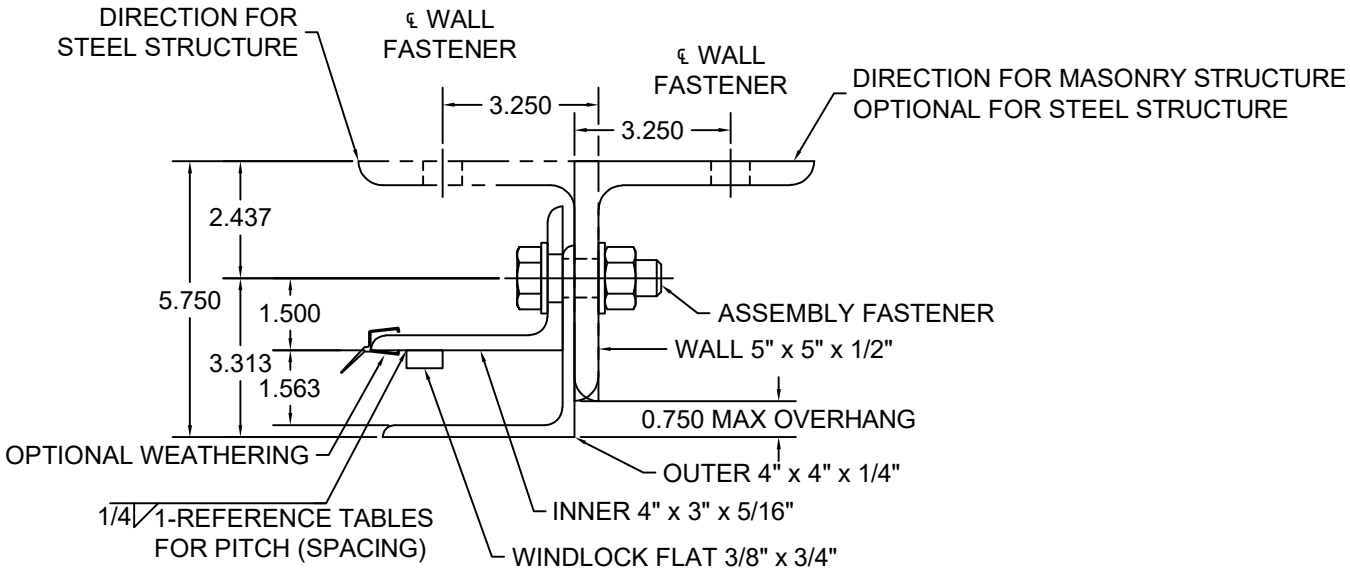


GUIDE ASSEMBLY TYPE 546
SCALE: 3" = 1'-0"



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

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GUIDE ASSEMBLY TYPE 548
SCALE: 3" = 1'-0"



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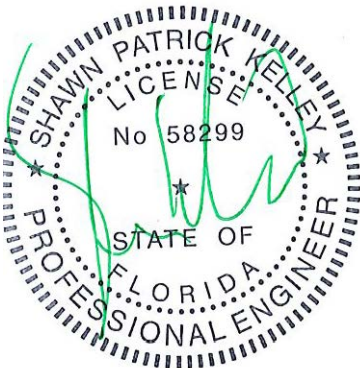
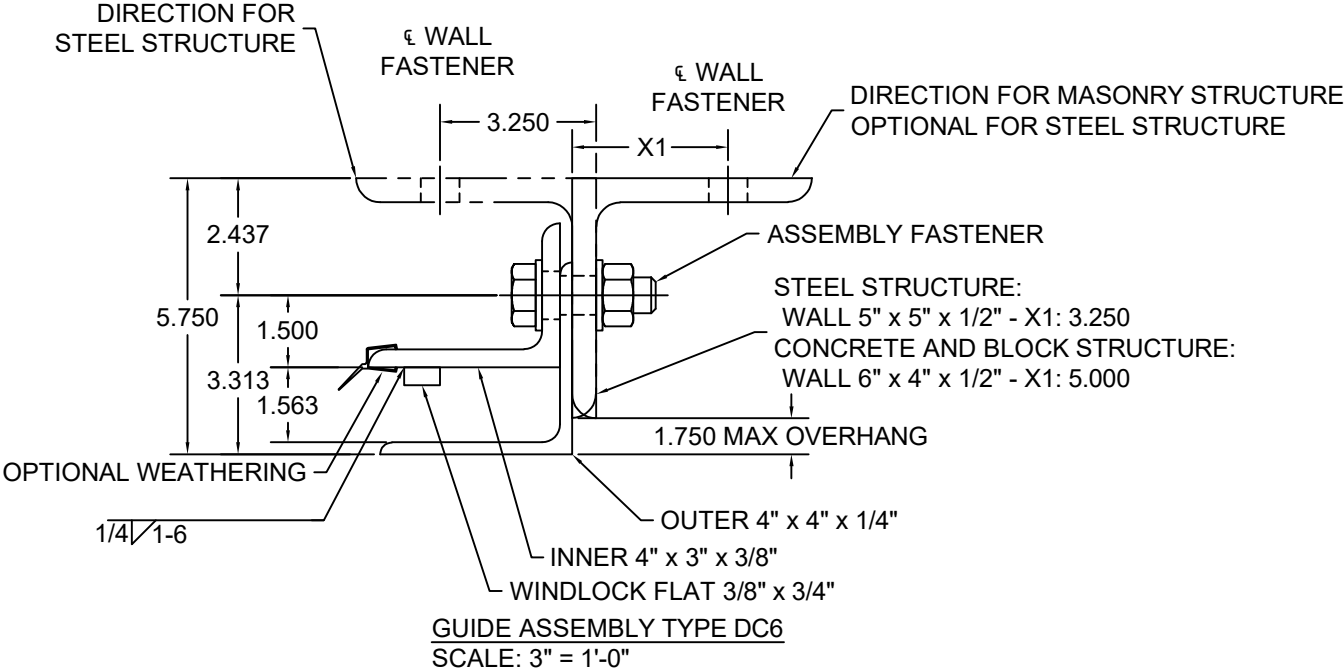
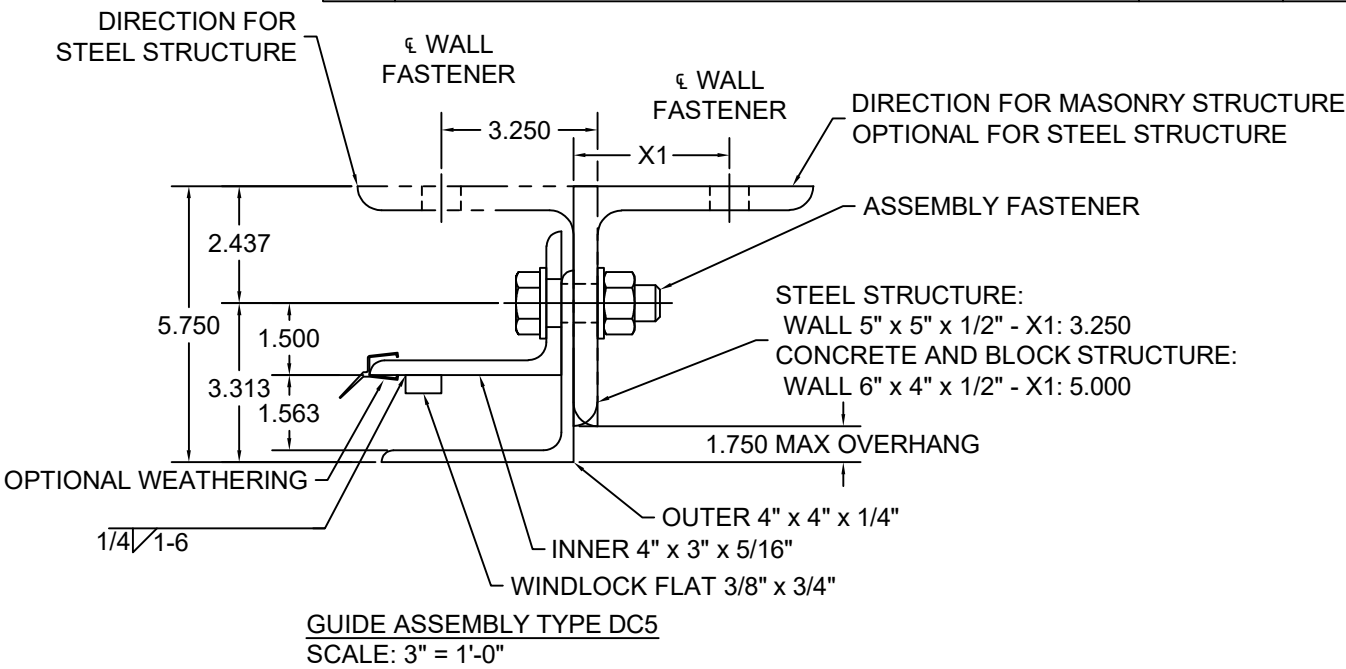
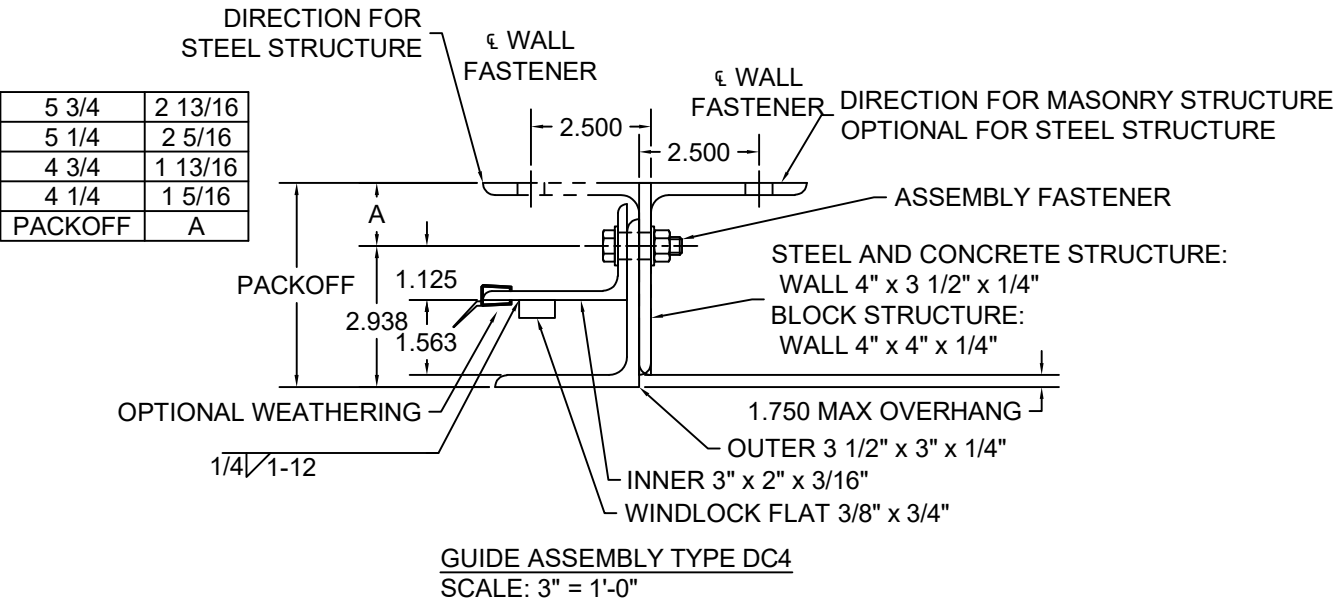
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SCALE: AS NOTED
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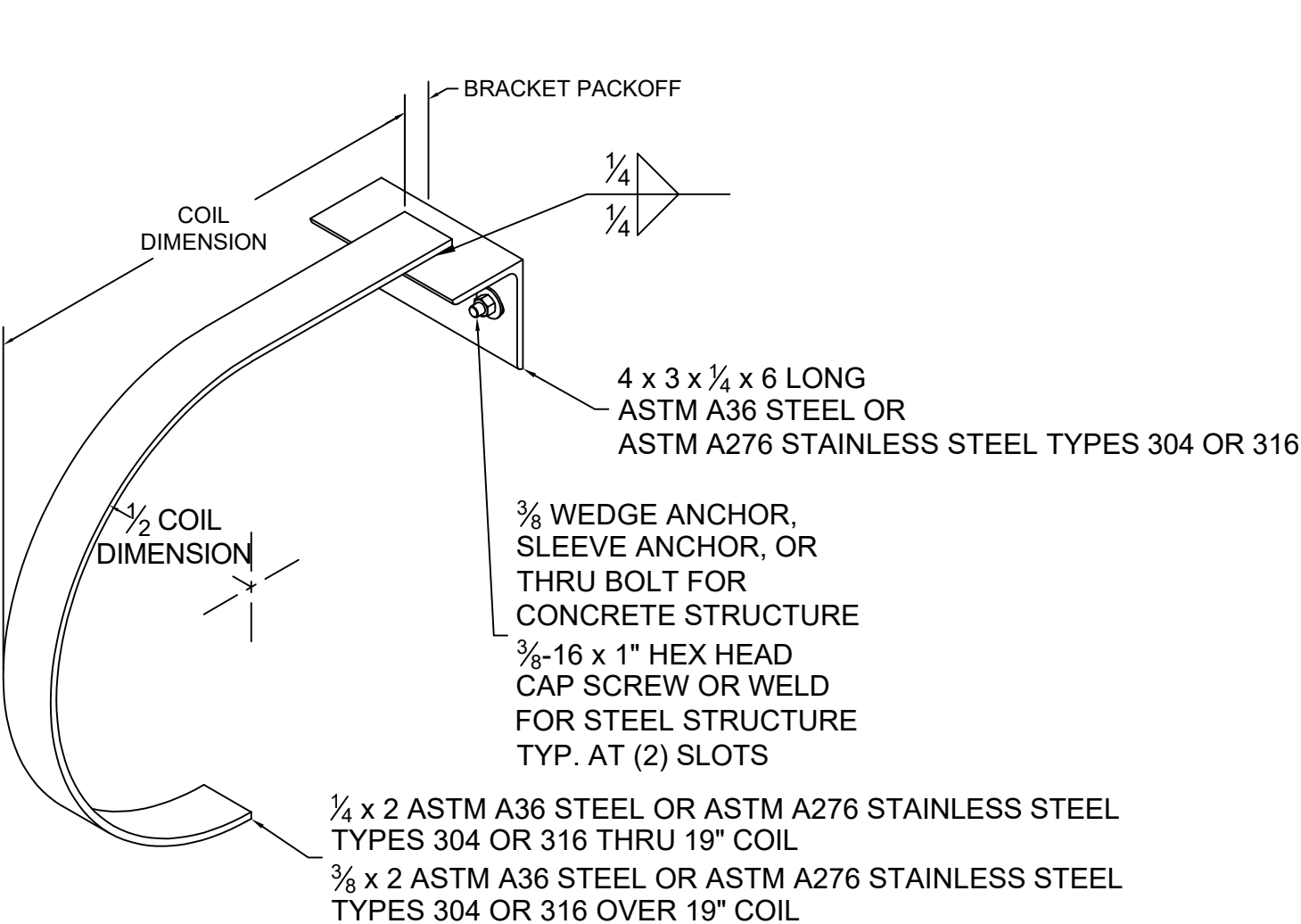
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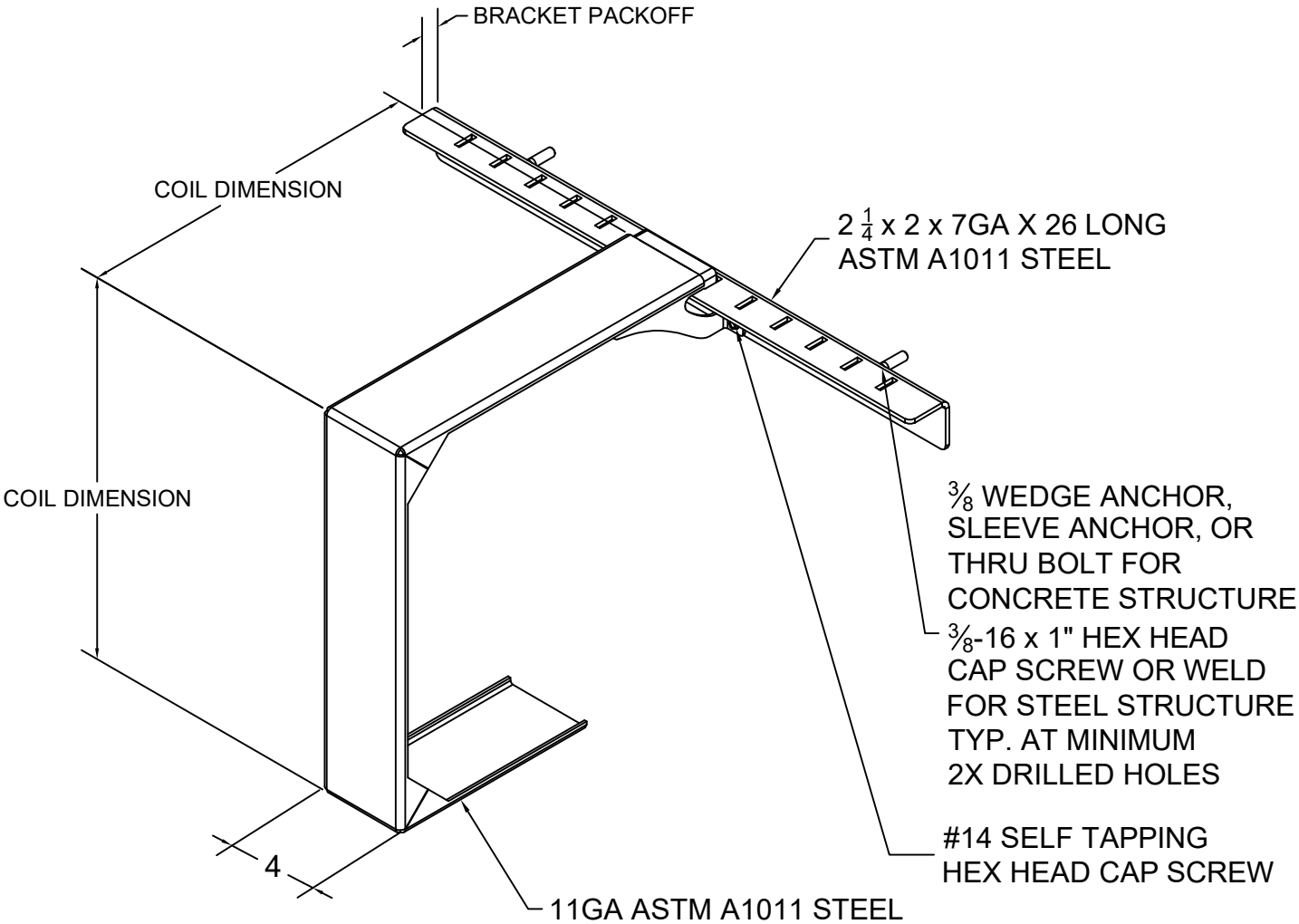
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MID-HOOD SUPPORT
(WHEN REQUIRED)
"D" SHAPE DEPICTED, SQUARE STYLE ALSO AVAILABLE
SCALE: NTS



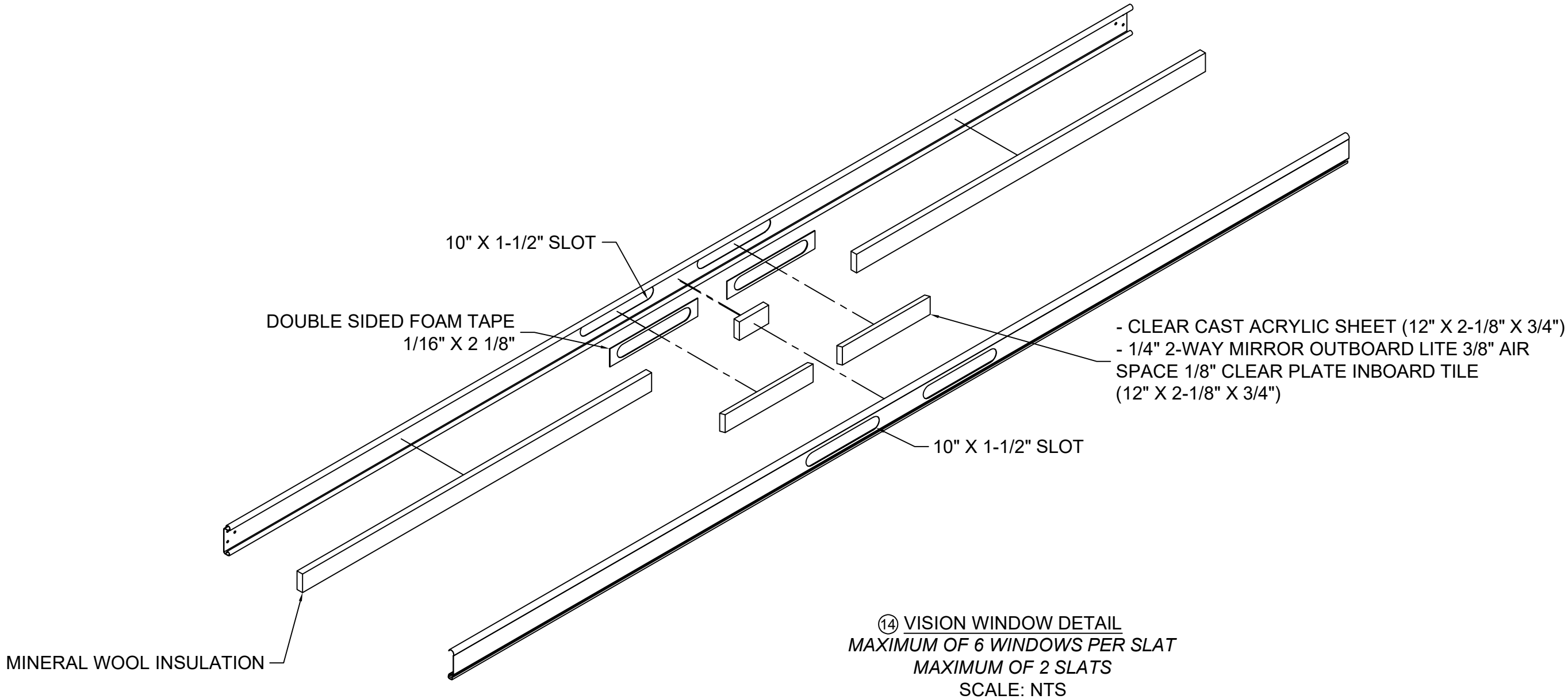
MID-HOOD SUPPORT
(WHEN REQUIRED)
SQUARE STYLE DEPICTED, "D" SHAPE ALSO AVAILABLE
SCALE: NTS



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		DWG NO: ES-16-140-CLO		
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CP0001/CP0651 - 0.022_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 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	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"	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	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	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	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	13	1/2	4 1/4	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	9	1/2	4 1/4	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	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	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	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	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	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	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	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	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	9	1/2	4 1/4	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	8	1/2	4 1/4	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	8	3/4	6 1/4	N/A	N/A	8	1/2	6 13/16	13	21	9/16" x 3/4"	17	12	6 13/16	13	21	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	8	3/4	6 1/4	N/A	N/A	8	1/2	6 13/16	12	20	9/16" x 3/4"	16	11	6 13/16	12	20	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	8	1/2	6 13/16	11	18	9/16" x 3/4"	14	9	6 13/16	11	18	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	8	1/2	6 13/16	11	17	9/16" x 3/4"	13	8	6 13/16	11	17	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	8	5/8	6 7/8	12	19	11/16" x 7/8"	21	15	6 7/8	12	19	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	8	5/8	6 7/8	11	18	11/16" x 7/8"	20	14	6 7/8	11	18	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	8	5/8	6 7/8	10	17	11/16" x 7/8"	19	13	6 7/8	10	17	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	8	5/8	6 7/8	10	16	11/16" x 7/8"	17	12	6 7/8	10	16																

L/TR	REVISION	DATE	BY	E.C.O.
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A	REVISED WINDLOAD TABLES & VISION WINDOW	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. 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		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	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		N/A		16	5	6 1/4	36		34		16	5 1/8	7 7/8				10	4 1/2	6		N/A		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		N/A		13	5	6 1/4	36		32		11	5 1/8	7 7/8				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				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	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				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	10	5	7		N/A		9																										

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CP0001/CP0651 - 0.022, 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.	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 7/16	0.657	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	23	19	3/16	134	217	111	216	14'-5"
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	17	3/8	3 1/4	13	5/8	4 1/2	16	3/8	3 1/4	10	5/8	4 1/2	8	3/8	5 3/4	32	36	7/16" x 5/8"	30	23	11	9	3/16	303	232	283	231	15'-5"
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	9	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	6	5	3/16	502	247	483	247	16'-5"
17'-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	14	27	7/16" x 5/8"	13	8	5	N/A	3/16	688	262	671	262	17'-5"
18'-5"	2	1.219	CP0629	445	12	1/2	18	15	3/4	5 1/2		N/A			N/A		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"	32	25	11	8	1/4	676	291	666	291	18'-5"
19'-5"	2	1.219	CP0629	445	12	1/2	18	15	3/4	5 1/2		N/A			N/A		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"	32	25	11	8	1/4	676	291	666	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	19	31	9/16" x 3/4"	27	21	9	7	1/4	814	306	805	306	20'-5"
21'-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		8	1/2	6 13/16	16	25	9/16" x 3/4"	22	16	8	5	1/4	986	321	977	322	21'-5"
22'-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		8	1/2	6 13/16	14	22	9/16" x 3/4"	19	13	7	5	1/4	1120	336	1111	337	22'-5"	
23'-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		8	1/2	6 13/16	12	20	9/16" x 3/4"	16	11	6	N/A	1/4	1252	351	1242	352	23'-5"	
24'-5"	2	1.156	CP0630 & CP0647	445	8	1/2	12		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	1382	366	1372	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		8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	7	5	5/16	1510	381	1501	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		8	5/8	6 7/8	11	18	11/16" x 7/8"	20	14	7	5	5/16	1639	397	1630	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		8	5/8	6 7/8	10	16	11/16" x 7/8"	18	13	6	N/A	5/16	1767	412	1758	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		8	5/8	6 7/8	10	15	11/16" x 7/8"	16	11	6	N/A	5/16	1895	427	1886	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		8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A	5/16	2023	442	2014	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		8	5/8	6 7/8	8	13	11/16" x 7/8"	14	9	5	N/A	5/16	2152	458	2142	459	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		8	3/4	7 1/2	17	19	7/8" x 1"	36	30	13	9	3/8	1869	471	1861	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		8	3/4	7 1/2	16	18	7/8" x 1"	36	28	13	9	3/8	1979	486	1971	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		8	3/4	7 1/2	15	17	7/8" x 1"	35	26	12	8	3/8	2090	502	2082	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		8	3/4	7 1/2	14	16	7/8" x 1"	33	24	11	8	3/8	2202	517	2193	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		8	3/4	7 1/2	14	16	7/8" x 1"	31	23	11	8	3/8	2314	532	2305	533	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		8	3/4	7 1/2	13	15	7/8" x 1"	30	21	10	7	3/8	2426	547	2418	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																							

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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. 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		28	2 3/8	4		27	2 3/8	3 3/4		28	2 1/2	4		36	2 1/2	4		36	3 1/2	4 3/4		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		N/A			22	1 7/8	3 1/4		25	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		N/A			20	1 7/8	3 1/4		23	2 1/2	4		32	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		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		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		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		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		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		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		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		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		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		N/A				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			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			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			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			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			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			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			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					N/A	17	5	6 1/4		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	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					N/A	12	5	6 1/4		36			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					N/A	11	5	6 1/4		36			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					N/A	9	5	6 1/4		36			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					N/A	6	5	6 1/4		33			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			N/A				31			7	5 1/8	7 7/8			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			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			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			12	5 3/4	8																				

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

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.	Embed	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	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	8	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"



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

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 NON-IMPACT RATED

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

L/TR	REVISION	DATE	BY	E.C.O.
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A	REVISED WINDLOAD TABLES & VISION WINDOW	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. 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		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				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					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					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					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			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	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					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					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					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					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					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					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		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		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		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		34		23			N/A			N/A			N/A			N/A				7 1/2	35'-5"	



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

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 NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 17/59

DWG NO: ES-16-140-CLO

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 & VISION WINDOW	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. 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.		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	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		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			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	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			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			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			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			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			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			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			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			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			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			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			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			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			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			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. 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		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			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				11	5	6 1/4	36		30		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	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				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				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		32		21		7	5 1/8	7 7/8		N/A			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		30		20			N/A			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				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				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				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				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				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				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		36		28		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		5	6 1/4	8 1/8					N/A		36		26			N/A			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. 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.	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 (+)
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. 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	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			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			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			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			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	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			5	6 1/4	10	7 1/2	23'-5"

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CP0001/CP0651 - 0.022_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 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	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"
13'-5"	1 1/8	0.281	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	8	12	11/16" x 7/8"	12	8	5	N/A	5/16	2295	475	2241	476	13'-5"
14'-5"	1 3/16	0.344	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	13	14	7/8" x 1"	29	21	10	7	3/8	2472	512	2407	512	14'-5"
15'-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			8	3/4	7 1/2	11	12	7/8" x 1"	23	16	8	6	3/8	2937	549	2873	549	15'-5"
16'-5"	1 1/4	0.406	CP0630 & CP0647	548	5	3/4	14	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	3061	584	3003	584	16'-5"

CP0001/CP0651 - 0.022_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 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			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	Max O.C.	Embed	Min. Wall Thick.	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	Max O.C.	Embed	Min. Wall Thick.	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	Max O.C.	Embed	Min. Wall Thick.	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	Max O.C.	Embed	Min. Wall Thick.	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"
13'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			30		20	Max O.C.	Embed	Min. Wall Thick.	N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	13'-5"
14'-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	14'-5"
15'-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		29	7	5 3/4	8 3/4	N/A			N/A			N/A			6	6 1/4	10	7 1/2	15'-5"
16'-5"	548	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	16'-5"

Guide Construction														CP0001/CP0651 - 0.022_0.022 Minimum Thickness Galvanized or Stainless Steel - 80 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	8	5/8	4 1/2			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			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	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			10	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	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			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	31	3/16	0	340	0	337	8'-5"							

CP0001/CP0651 - 0.022_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.						
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			13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 3/4	8'-5"			

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

CP0001/CP0651 - 0.0236_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 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.		Embed	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	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	8	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	22	36	7/16" x 5/8"	21	16	7	6	3/16	446	185	433	184	18'-5"
19'-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	573	195	561	195	19'-5"
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	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	3/8	5 3/4	14	27	7/16" x 5/8"	12	8	5	N/A	3/16	695	205	684	205	20'-5"
21'-5"	1 1/2	0.719	CP0629	344	10	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	12	23	7/16" x 5/8"	10	6	N/A	N/A	3/16	813	215	802	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	16	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	224	624	224	22'-5"
23'-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			11	1/2	4 1/4	N/A			8	1/2	6 13/16	22	35	9/16" x 3/4"	30	23	11	7	1/4	724	234	718	234	23'-5"
24'-5"	2	1.219	CP0629	445	10	1/2	18	12	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	1/2	6 13/16	19	31	9/16" x 3/4"	27	20	9	7	1/4	815	244	809	244	24'-5"
25'-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	27	9/16" x 3/4"	23	17	8	6	1/4	938	254	931	255	25'-5"
26'-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"	21	15	7	5	1/4	1028	264	1022	265	26'-5"
27'-5"	2	1.156	CP0630	445	8	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	14	22	9/16" x 3/4"	19	13	7	5	1/4	1118	274	1112	275	27'-5"
28'-5"	2	1.156	CP0630	445	8	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	21	9/16" x 3/4"	17	12	6	N/A	1/4	1208	284	1201	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			8	1/2	6 13/16	12	19	9/16" x 3/4"	15	10	6	N/A	1/4	1297	294	1291	295	29'-5"
30'-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	18	9/16" x 3/4"	14	9	5	N/A	1/4	1386	304	1380	305	30'-5"
31'-5"	2	1.156	CP0630 & CP0647	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	10	17	9/16" x 3/4"	12	8	5	N/A	1/4	1475	315	1469	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			8	5/8	6 7/8	12	19	11/16" x 7/8"	21	15	7	5	5/16	1565	325	1558	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			8	5/8	6 7/8	11	17	11/16" x 7/8"	20	14	7	5	5/16	1654	335	1648	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			8	5/8	6 7/8	10	17	11/16" x 7/8"	18	13	6	N/A	5/16	1744	345	1738	346	34'-5"
35'-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	1835	355	1828	356	35'-5"
36'-5"																																												

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A	REVISED WINDLOAD TABLES & VISION WINDOW	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. 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			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	N/A	29	1 7/8	3 1/4	33	2 1/2	4	36	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	N/A	27	1 7/8	3 1/4	31	2 1/2	4	36	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	N/A	25	1 7/8	3 1/4	28	2 1/2	4	36	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	N/A	23	1 7/8	3 1/4	27	2 1/2	4	36	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	N/A	22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	36	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	N/A	21	1 7/8	3 1/4	24	2 1/2	4	33	2 1/2	4	34	2 1/2	4	36	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	N/A	20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	32	2 1/2	4	36	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	N/A	19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	36	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	N/A	18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	36	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	N/A	18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	36	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	N/A	17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	36	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	N/A	17	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	27	2 1/2	4	36	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	N/A	16	1 7/8	3 1/4	18	2 1/2	4	26	2 1/2	4	26	2 1/2	4	36	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	N/A	10	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	36	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	N/A	6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	19	2 1/2	4	36	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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																																

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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.	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	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"	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	N/A	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	N/A	N/A	8	3/4	5 1/4	8	3/8	3 1/4	N/A	N/A	N/A	13	1/2	4 1/4	N/A	N/A	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	N/A	N/A	N/A	N/A	10	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	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	N/A	N/A	9	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	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	N/A	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	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	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	N/A	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	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	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	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	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	N/A	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	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	N/A	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"	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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	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	N/A	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"											

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

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. 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			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		N/A		10	4 1/2	6		N/A		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		N/A		8	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	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		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		N/A		6	4 1/2	6		N/A		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		N/A		5	4 1/2	6		N/A		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		N/A		11	5 1/2	8		N/A		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		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	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	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		N/A		8	5 1/2	8		N/A		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		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	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	36'-5"
37'-5"	548	9																																								

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/26/2025	KAD	2398
A	REVISED WINDLOAD TABLES & VISION WINDOW	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. 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			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		N/A	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		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	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	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		N/A	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		N/A	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		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	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	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		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		N/A	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		N/A	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		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	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	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		N/A	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		N/A		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		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		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"	



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

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 NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 28/59

L/TR	REVISION	DATE	BY	E.C.O.
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A	REVISED WINDLOAD TABLES & VISION WINDOW	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 Titan			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titan 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				9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4				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				8	5/8	4 3/8	11	3/8	3 1/4				10	3/8	3 1/4				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				8	3/4	5 1/4	9	3/8	3 1/4				9	3/8	3 1/4				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							8	3/8	3 1/4				12	1/2	4 1/4				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				8	5/8	4 3/8	15	3/8	3 1/4				15	3/8	3 1/4				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				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				8	3/4	5 1/4	8	3/8	3 1/4				12	1/2	4 1/4				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							9	1/2	4 1/4				8	1/2	4 1/4				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							9	1/2	4 1/4				8	1/2	4 1/4				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							8	1/2	4 1/4										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										8	3/4	6 1/4										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																						8	1/2	6 13/16	11	18	9/16" x 3/4"	14	10	5		1/4	1355	460	1341	461	18'-5"
19'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	16																						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																						8	5/8	6 7/8	10	16	11/16" x 7/8"	18	13	6		5/16	1757	510	1743	511	20'-5"
21'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13																						8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6		5/16	1954	535	1940	537	21'-5"
22'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18																						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																						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																						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																						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																						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																						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																						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																						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																						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 Titan 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			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			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			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	N/A			N/A	7 1/2	30'-5"							

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

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						
								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 (-)	D.B.G. Up To	
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	13	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	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	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	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	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	N/A	N/A	10	5 1/2	8	17	6 1/4	8 1/8	N/A	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	N/A	N/A	9	5 1/2	8	11	6 1/4	8 1/8	N/A	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	N/A	N/A	7	5 1/2	8	9	6 1/4	8 1/8	N/A	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	23'-5"					
24'-5"	648	8	5 3/4	8 3/4	N/A	N/A	N/A	N/A	N/A	N/A	6	5 1/2	8	8	6 1/4	8 1/8	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	7	6 1/4	8 1/8	N/A	N/A	N/A	N/A	N/A	36	28	8	5 3/4	8 3/4	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	5	6 1/4	8 1/8	N/A	N/A	N/A	N/A	N/A	36	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	6 1/4	10	7 1/2	26'-5"					

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

Guide Construction								CP0001/CP0651 - 0.0236_0.022 Minimum Thickness Galvanized or Stainless Steel - 65 PSF																																					
								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	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				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						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						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								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							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							8	3/4	6 1/4	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		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		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		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		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		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		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		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		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		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		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		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		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. 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.	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		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					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					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.	Embed	Max O.C.	Dia.		Embed	Max O.C.	Dia.	Embed	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	
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	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	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	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	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	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	N/A	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	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	8	1/2	6 13/16	13	20	9/16" x 3/4"	17	12	6	N/A	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	8	1/2	6 13/16	11	16	9/16" x 3/4"	13	8	5	N/A	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	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	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	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	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	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	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	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	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	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	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	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		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"
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		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		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		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		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				12	5	6 1/4	36		32	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	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				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	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				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	16'-5"
17'-5"	546	8	5 1/8	7 7/8	5	4 1/2	6				5	4 1/2	6	8	5	7				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	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				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				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	6	5 1/2	8		N/A		8	5 1/2	8	10	6 1/4	8 1/8				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"	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				9	6 5/8	7 7/8	34		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	21'-5"
22'-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				5	6 5/8	7 7/8	36		36		9	5 3/4	8 3/4		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		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	23'-5"
24'-5"	648	5	5 3/4	8 3/4		N/A			N/A			N/A		5	6 1/4	8 1/8					N/A		35		24		N/A			N/A			N/A			N/A			N/A		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 Titan			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titan 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	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	N/A	N/A	9	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	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	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	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	N/A	N/A	8	3/4	6 1/4	N/A	N/A	N/A	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	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	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	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	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	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	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	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	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	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	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	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			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	7	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			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			36		24	N/A			N/A			N/A			N/A			N/A			5	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			36		25	N/A			N/A			N/A			N/A			N/A			5	6 1/4	10	7 1/2	21'-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 - 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 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.					
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"
11'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			34	23	N/A			N/A			N/A			N/A			6	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	32	8	5 3/4	8 3/4	N/A			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			5	6 1/4	8 1/8	N/A			N/A			36	28	N/A			N/A			N/A			N/A			5	6 1/4	10	7 1/2	13'-5"

CP0001/CP0651 - 0.0236_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. 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	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 - 0.0236_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. 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.					
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 - 0.0236_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.	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	11	3/4	5 1/2		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	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			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	3/16	0	390	0	385	6'-5"		

CP0001/CP0651 - 0.0236_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. 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			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			5'-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"

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

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. 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 Titan			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titan 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	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					

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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. 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		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	36'-5"					
37'-5"																																														

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

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. 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	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	24	19	9	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	8	1/2	4 1/4	N/A	8	1/2	4 1/4	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	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	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	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	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	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	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	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	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	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	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	N/A	N/A	N/A	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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A	REVISED WINDLOAD TABLES & VISION WINDOW	08/12/2026	KAD	2398

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. 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		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																			

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CP0001/CP0651 - 0.0296 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.		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	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"	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"	



CLOPAY CORPORATION
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Unless otherwise specified,
dimensions are in inches &
tolerances are:

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/26/2025	KAD	2398
A	REVISED WINDLOAD TABLES & VISION WINDOW	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. 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.					
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"



CLOPAY CORPORATION
8585 DUKE BOULEVARD
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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 NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 40/59

DWG NO: ES-16-140-CLO

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 & VISION WINDOW	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.		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	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		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	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	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	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		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	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		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	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		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		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	7	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		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		8	1/2	4 1/4		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							8	1/2	6 13/16	13	21	9/16" x 3/4"	17		12	6	N/A	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							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							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							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							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							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							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							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							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							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							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							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							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							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			N/A		8	5	7		N/A		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	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			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			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			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"

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

CP0001/CP0651 - 0.0296_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	N/A	N/A	8	5/8	4 3/8	12	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	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	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	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	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	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	N/A	N/A	N/A	N/A	N/A	11	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	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	N/A	N/A	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	7/16" x 5/8"	36	36	36	36	3/16	0	315	0	313	10'-5"
11'-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	12	5/8	4 1/2	12	5/8	4 1/2	11	3/8	3 1/4	9	5/8	4 1/2	8	3/8	5 3/4	28	36	7/16" x 5/8"	27	21	9	8	3/16	333	345	272	343	11'-5"
12'-5"	1 3/16	0.407	CP0629	344	12	3/8	11	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	9	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	14	25	7/16" x 5/8"	13	8	5	N/A	3/16	678	375	627	374	12'-5"
13'-5"	1 1/2	0.656	CP0630	445	10	1/2	15	8	3/4	5 1/2	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	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	24	9/16" x 3/4"	22	15	8	5	1/4	1001	434	970	434	13'-5"
14'-5"	1 1/2	0.656	CP0630	445	10	1/2	15	8	3/4	5 1/2	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	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	24	9/16" x 3/4"	22	15	8	5	1/4	1001	434	970	434	14'-5"
15'-5"	1 5/8	0.781	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	8	1/2	6 13/16	N/A	N/A	N/A	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	1158	463	1132	464	15'-5"
16'-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	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	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	1306	493	1283	494	16'-5"
17'-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	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	13	20	1 1/16" x 7/8"	23	17	8	6	5/16	1445	522	1425	523	17'-5"
18'-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	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	12	18	1 1/16" x 7/8"	21	15	7	5	5/16	1575	552	1558	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	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	10	16	1 1/16" x 7/8"	17	12	6	N/A	5/16	1823	582	1806	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	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	14	1 1/16" x 7/8"	14	10	5	N/A	5/16	2067	612	2050	614	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	8	3/4	7 1/2	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	1843	641	1825	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	8	3/4	7 1/2	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	2048	671	2031	672	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	8	3/4	7 1/2	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	2252	701	2235	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	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	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	10	7	3/8	2455	732	2438	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	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	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	2657	762	2641	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	8	3/4	7 1/2	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	792	2844	793	26'-5"
27'-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	8	3/4	7 1/2	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	3064	823	3048	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	8	3/4	9 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	9 1/4	9	11	7/8" x 1"	20	13	7	5	3/8	3269	853	3253	854	28'-5"

CP0001/CP0651 - 0.0296 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			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		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	11'-5"
12'-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	28		19	N/A			N/A			5	2 1/2	4	5	2 1/2	4	17	3 1/4	5	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	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	14'-5"
15'-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	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	15'-5"
16'-5"	445	10	3 7/8	6	7	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		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	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		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	17'-5"
18'-5"	546	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			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	6	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	19'-5"
20'-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			7	5 1/2	8 1/2	6 7/8	20'-5"			
21'-5"	548	13	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	17	5 3/4	8 3/4	N/A			10	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	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	22'-5"
23'-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	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			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	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		29	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			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	26'-5"			
27'-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	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		33	10	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	28'-5"

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

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. 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	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"		
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			N/A			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. 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	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	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		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		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		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		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		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		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"

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

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. 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.	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	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	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	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	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	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	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	10	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	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	N/A	N/A	N/A	11	1/2	4 1/4	N/A	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	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	N/A	N/A	N/A	9	1/2	4 1/4	N/A	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	N/A	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				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				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	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				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				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				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				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				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				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				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				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				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				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				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. 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			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				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				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				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				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				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				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				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				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				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			N/A	5	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				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"

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 - 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.	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			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			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			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			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			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			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			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			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			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			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			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			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			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			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. 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		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			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			N/A			N/A			N/A		35		24			N/A			N/A			N/A			N/A			N/A		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			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	23'-5"

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

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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. 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			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"	
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			7	6 1/4	10	7 1/2	13'-5"					
14'-5"	548	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		28		7	5 3/4	8 3/4	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. 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.	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	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. 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			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 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.	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 (+)	
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	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"					

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																																												
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	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	N/A	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"	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	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	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	N/A	N/A	8	5/8	4 3/8	12	3/8	3 1/4	N/A	N/A	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	194	19'-5"		
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	8	1/2	3 3/4	N/A	N/A	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	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	N/A	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	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	N/A	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	24	670	244	673	244	23'-5"							
24'-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	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	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	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	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	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	N/A	N/A	9	3/4	6 1/4	N/A	N/A	N/A	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	N/A	N/A	8	3/4	6 1/4	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	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	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	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	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	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	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	N/A	N/A	N/A																					

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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. 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		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	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	36'-5"				
37'-5"																																													

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CP0001/CP0651 - 0.0405_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 Titan			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titan 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	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																																									

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A	REVISED WINDLOAD TABLES & VISION WINDOW	08/12/2026	KAD	2398

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. 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			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																			

L'TR	REVISION	DATE	BY	E.C.O.
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A	REVISED WINDLOAD TABLES & VISION WINDOW	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. 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		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"			



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

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Unless otherwise specified,
dimensions are in inches &
tolerances are:

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

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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. 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 Titan			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titan 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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. 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		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				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				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				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		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				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		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				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		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				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	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	18'-5"															
19'-5"	445			10	3 7/8		6		7	3 5/8		6		8	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				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				32				11	5 1/8	7 7/8						9	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		7	4 5/8	7		7	4 1/2	6		10	5	7			N/A				27				9	5 1/8	7 7/8						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			33		23			7	5 1/8	7 7/8						5	4 1/2	6		N/A		9	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			36		36			18	5 3/4	8 3/4						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			18	6 1/4	8 1/8			18	6 1/4	8 1/8			N/A			36				13	6 5/8	7 7/8						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			11	6 1/4	8 1/8			11	6 1/4	8 1/8			N/A			36				13	6 5/8	7 7/8						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			36					10	6 5/8	7 7/8						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			9	6 1/4	8 1/8			9	6 1/4	8 1/8			N/A			36				7	6 5/8	7 7/8						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			36													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			6	6 1/4	8 1/8			6	6 1/4	8 1/8			N/A			36													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			5	6 1/4	8 1/8			5	6 1/4	8 1/8			N/A			36																		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	5 1/2	8			N/A			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	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																		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"	

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

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

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 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	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	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	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	36	36	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	36	36	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	36	36	36	36	36	36	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	36	36	36	36	36	36	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	5	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	N/A	8	1/2	6 13/16	15	23	9/16" x 3/4"	21	15	11	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	N/A	8	1/2	6 13/16	15	23	9/16" x 3/4"	21	15	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	N/A	8	1/2	6 13/16	15	23	9/16" x 3/4"	20	14	16	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	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	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	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	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	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	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	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	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	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	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	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	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 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			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		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		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		N/A		5	6 1/4	8 1/8	N/A		N/A		35	24	N/A		N/A			N/A			N/A			N/A			7	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"		

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. 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	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"	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	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.					
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		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		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		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		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		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		33		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	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		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		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		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		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"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/26/2025	KAD	2398
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Guide Construction								CP0001/CP0651 - 0.0405_0.022 Minimum Thickness Galvanized or Stainless Steel - 70 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	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. 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		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			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"

L/TR	REVISION	DATE	BY	E.C.O.
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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.		Embed	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	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			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			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			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			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			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			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"

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.		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			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			N/A			7	5	7		N/A		6	5	6 1/4	36	21	N/A			N/A			N/A			8	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			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			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

DWG NO: ES-16-140-CLO