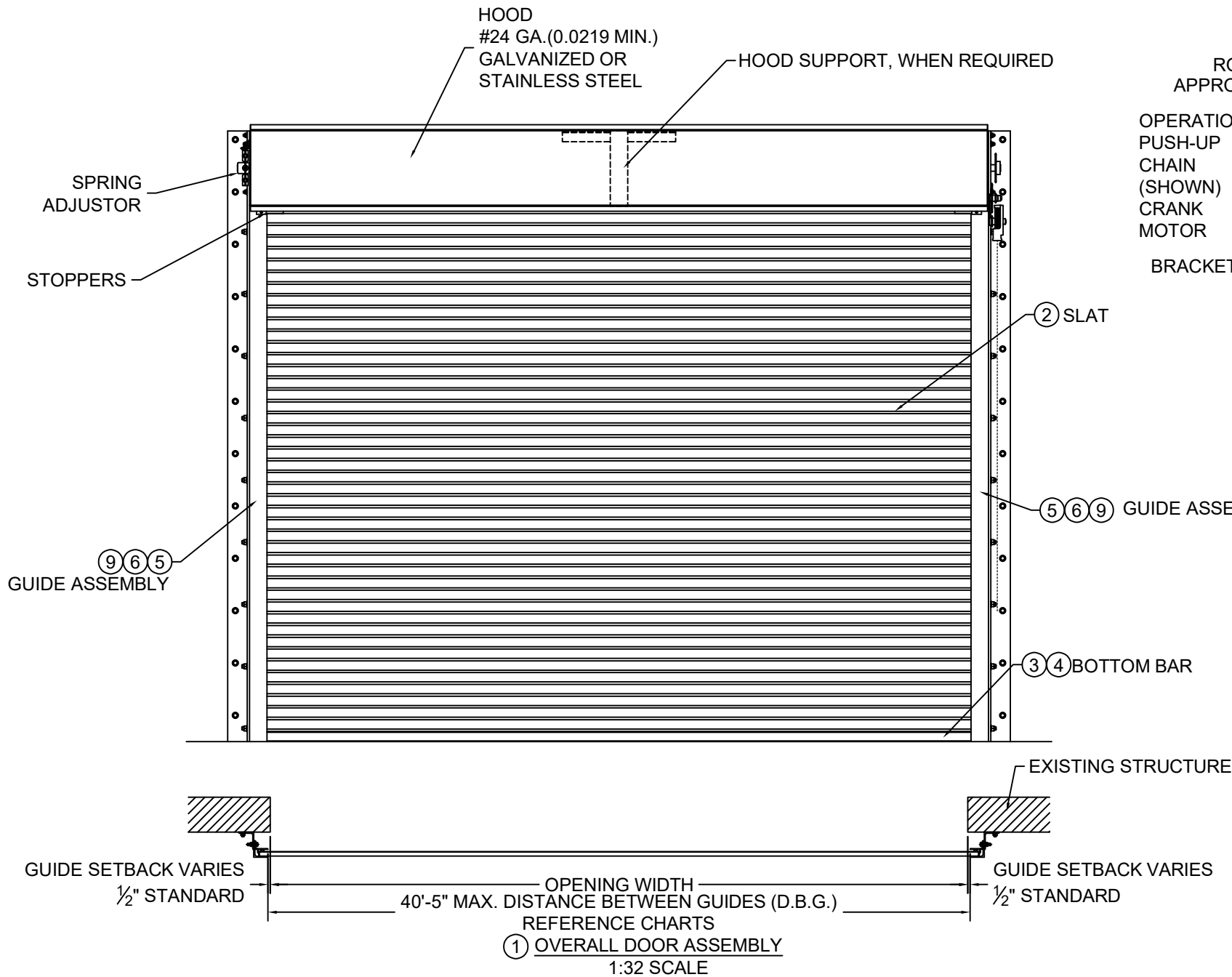
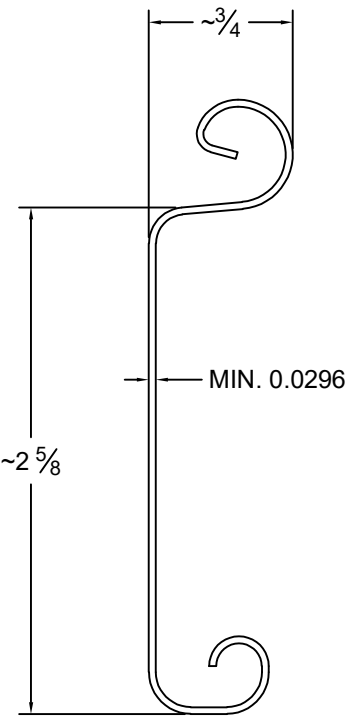
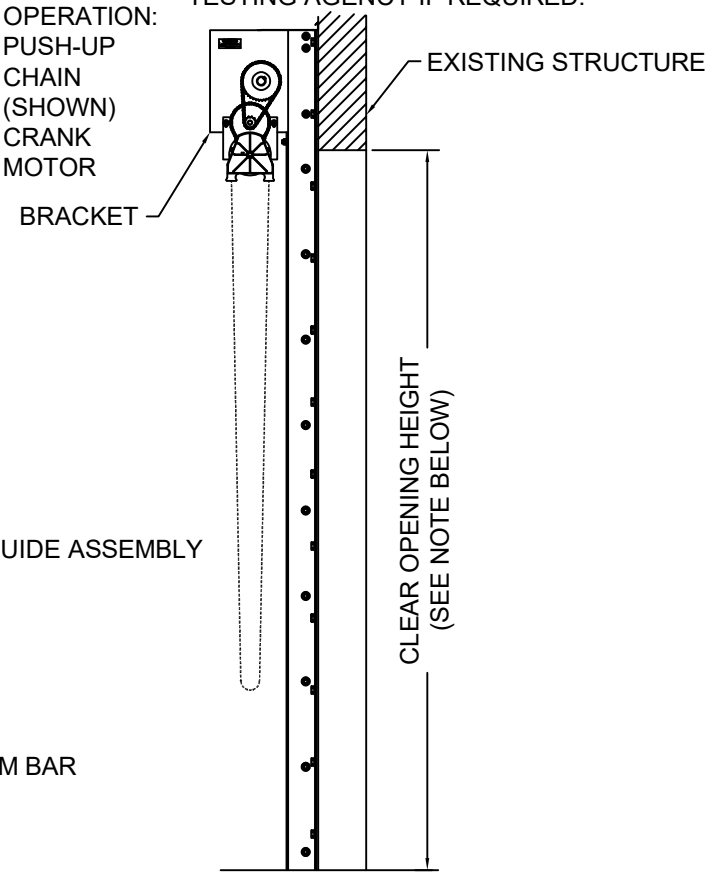


L'TR	REVISION	DATE	BY	E.C.O.
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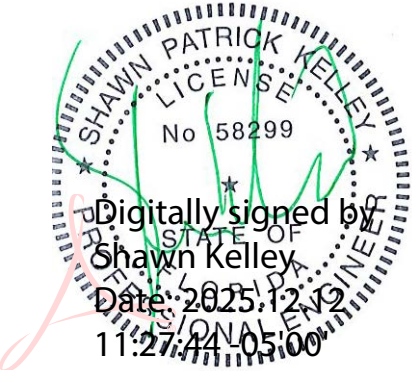
ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



② SLAT DETAIL
TYPICAL SECTION

ASTM A653 HSLAS TYPE B GRADE 40 G40 OR
ASTM A653 HSLAS TYPE A GRADE 40 G40 OR
ASTM A653 STRUCTURAL STEEL GRADE 40 G40 OR
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
Kelley



COOKSON
Preferred door solutions.

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MOUNTAINTOP, PA GOODYEAR, AZ

P: 800.390.8590
F: 866.448.6798
E: ADS@COOKSONDOOR.COM

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

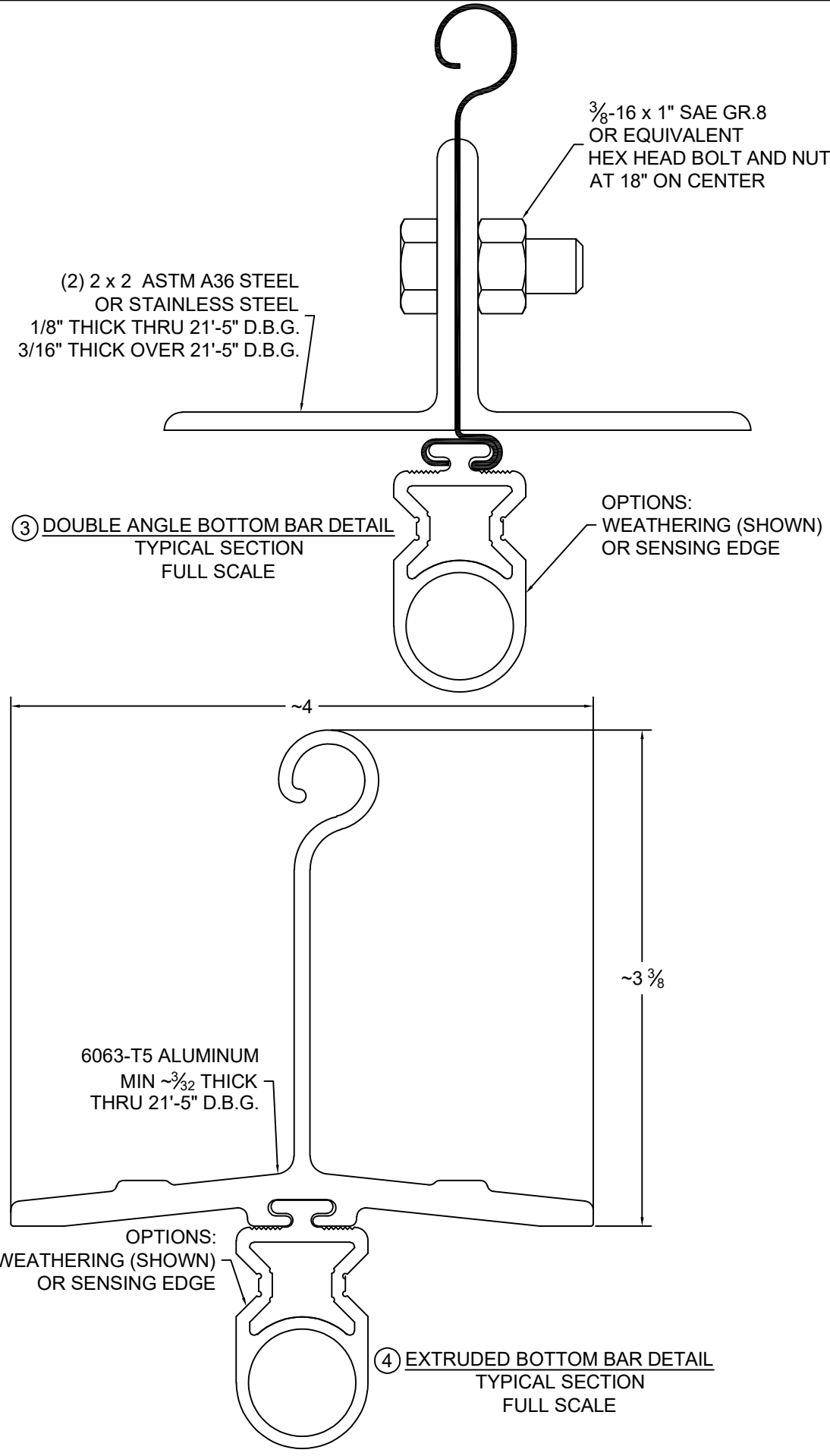
0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

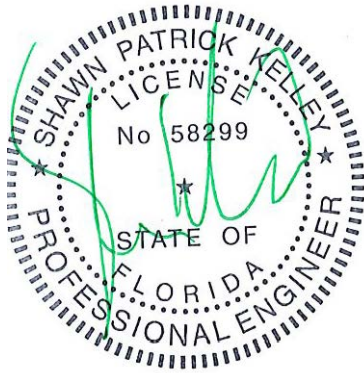
DRAWN BY: KAD	SIZE: B	SCALE: AS NOTED	SHEET: 1/36
DWG NO: ES-16-135-TCCI			

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L'TR	REVISION	DATE	BY	E.C.O.
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- GENERAL NOTES:**
1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE STANDARD BUILDING CODE, THE INTERNATIONAL BUILDING CODE, AND THE FLORIDA BUILDING CODE.
 2. THIS ROLL-UP DOOR HAS BEEN TESTED FOR UNIFORM STATIC PRESSURE, IMPACT AND FATIGUE RESISTANCE IN ACCORDANCE WITH THE FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES TAS 201, TAS 202, AND TAS 203.
 3. A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.
 4. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.
 5. THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
 6. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE AND EMBOSSED SEAL ON EACH PERMIT COPY, WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.
 7. THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS Vx & Vy ON THE JAMBS OF THE DOOR.
 8. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
 9. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.
 10. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELEGATED REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND EMBOSSED SEAL OF THE DELEGATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW.
 11. ALL HARDWARE 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 ATSM A36 FOR STEEL OR ASTM A276 FOR TYPES 304 OR 316 WITH A MINIMUM 36 KSI YIELD STRENGTH FOR STAINLESS STEEL.





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MOUNTAINTOP, PA GOODYEAR, AZ

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

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

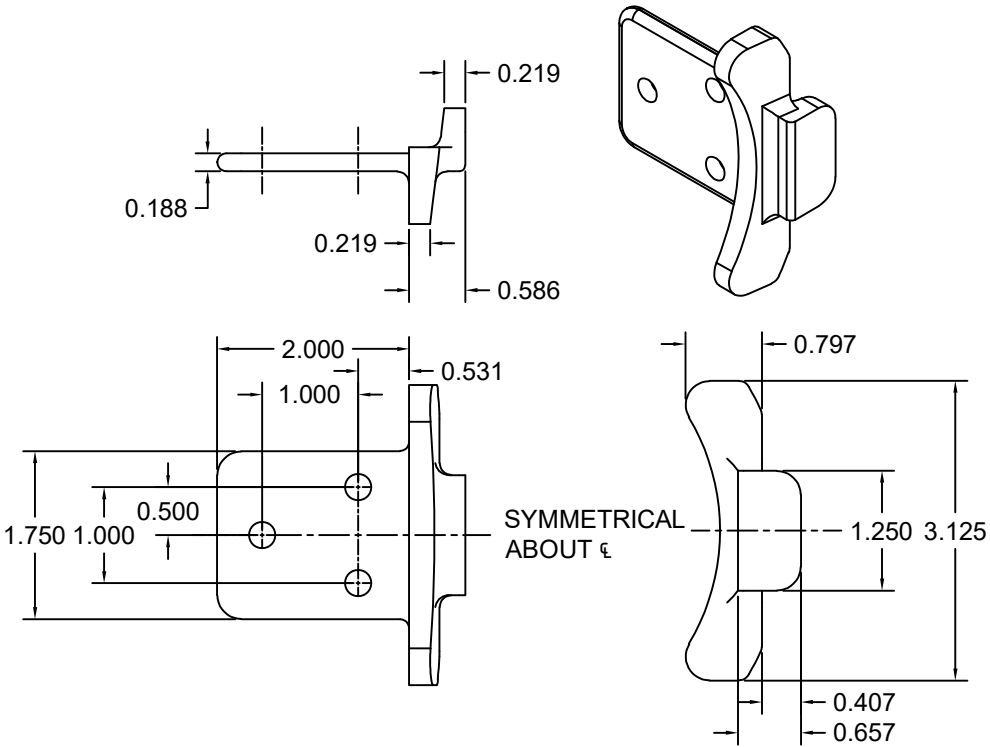
WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: **KAD**
SIZE: **B**
SCALE: **AS NOTED**
SHEET: **2/36**

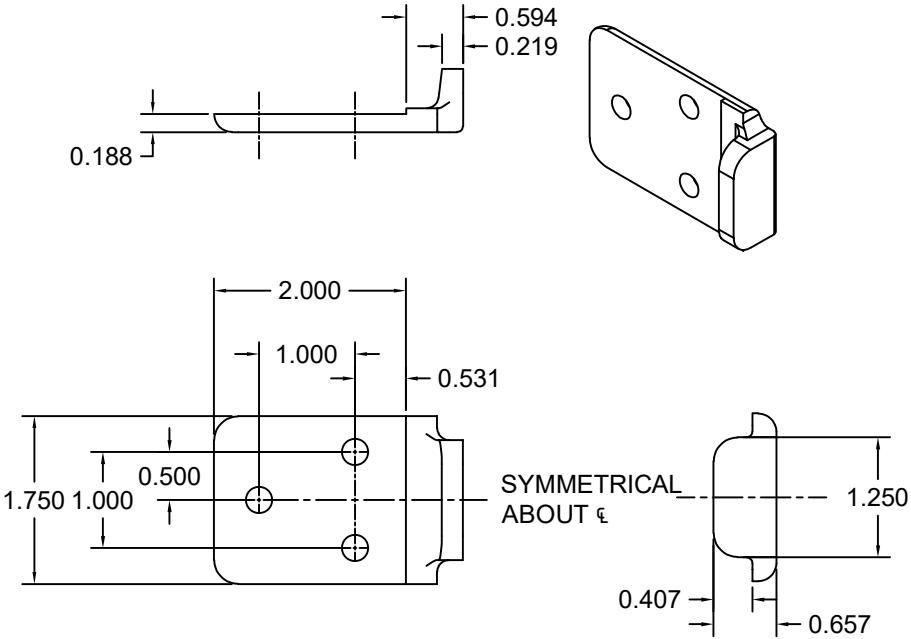
DWG NO: **ES-16-135-TCCI**

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

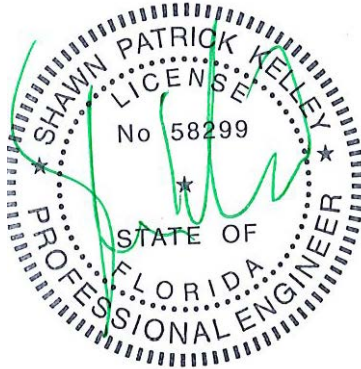
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398



⑪ ENDLOCK / WINDLOCK DETAIL, CP1152
 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



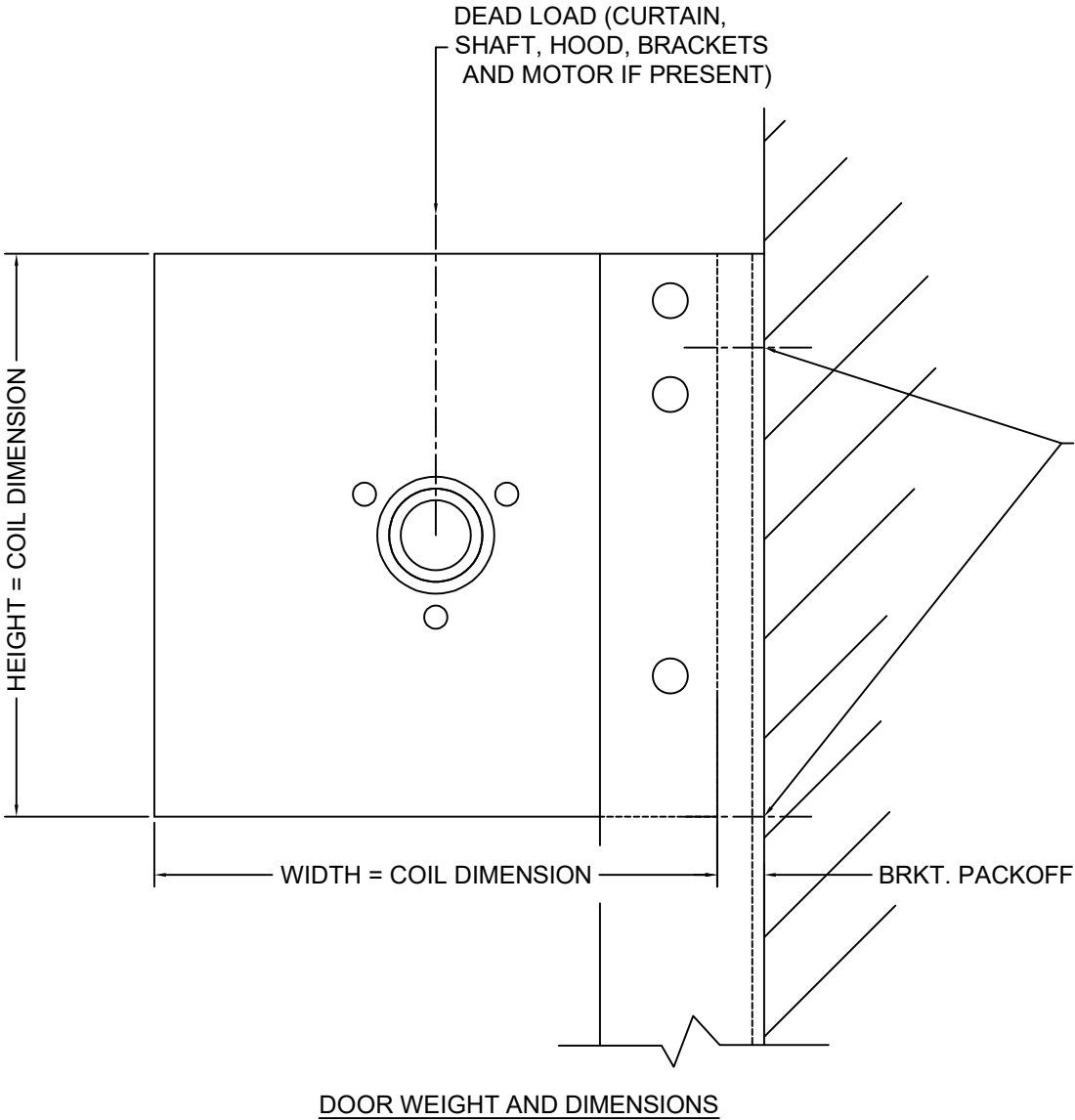
⑫ WINDLOCK DETAIL, CP1153
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE



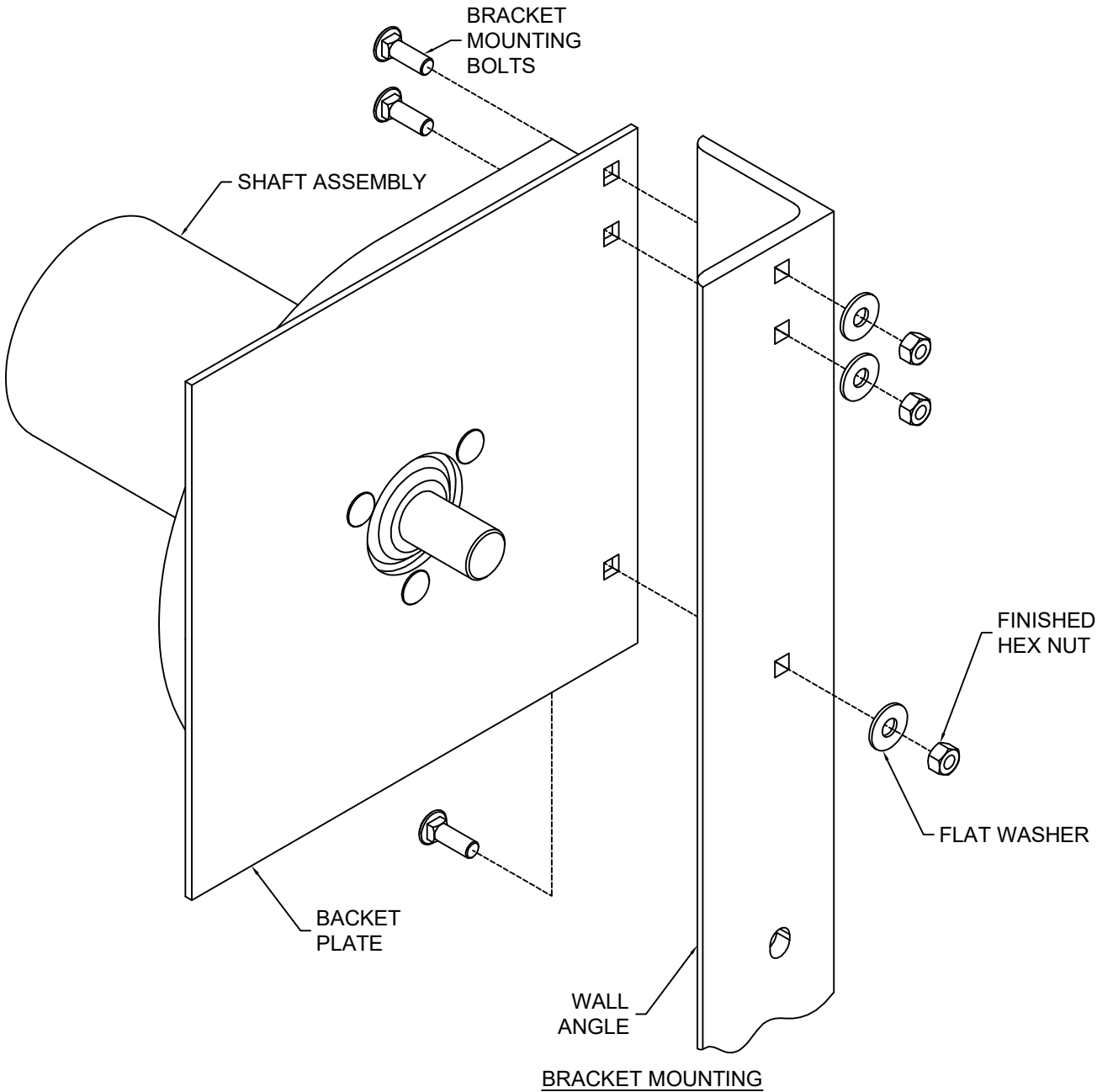
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.390.8590 F: 866.448.6798 E: ADS@COOKSONDOOR.COM		DRAWN BY:	SIZE:
WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED			KAD	B
			DWG NO: ES-16-135-TCCI	
			SCALE:	SHEET:
			AS NOTED	4/36

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

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FOR "WALL ANGLE" TO WALL CONNECTION, REF. TABLES BASED ON THE SPECIFIC INSTALLATION. USE AT LEAST ONE FASTENER OR WELD AT THE INDICATED LOCATIONS.



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

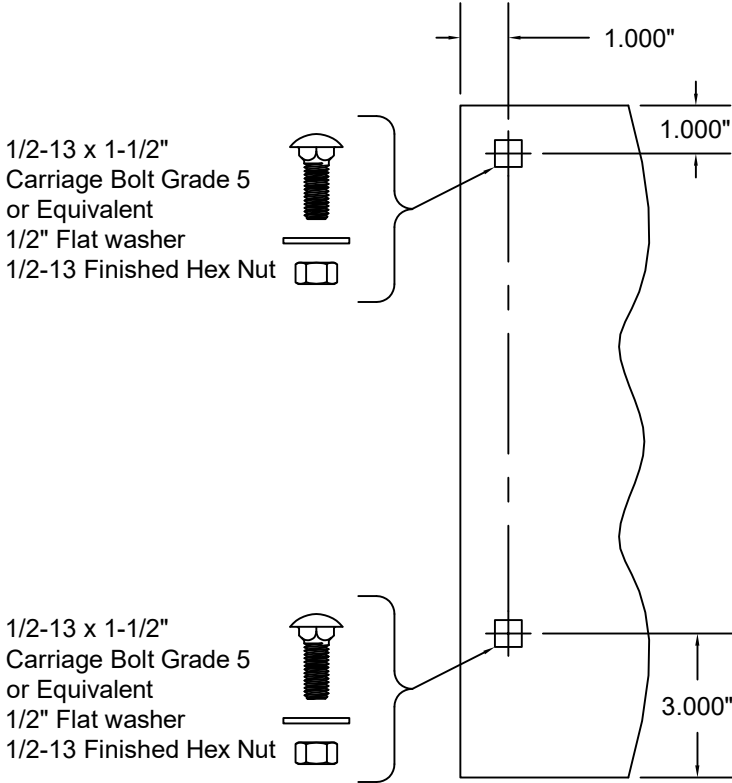
NOTE:
1. STANDARD BRACKET MOUNTING DETAIL IS DEPICTED, OTHER MOUNTINGS ARE AVAILABLE



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WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED			DRAWN BY: KAD	SIZE: B
			SCALE: AS NOTED	SHEET: 5/36
			DWG NO: ES-16-135-TCCI	

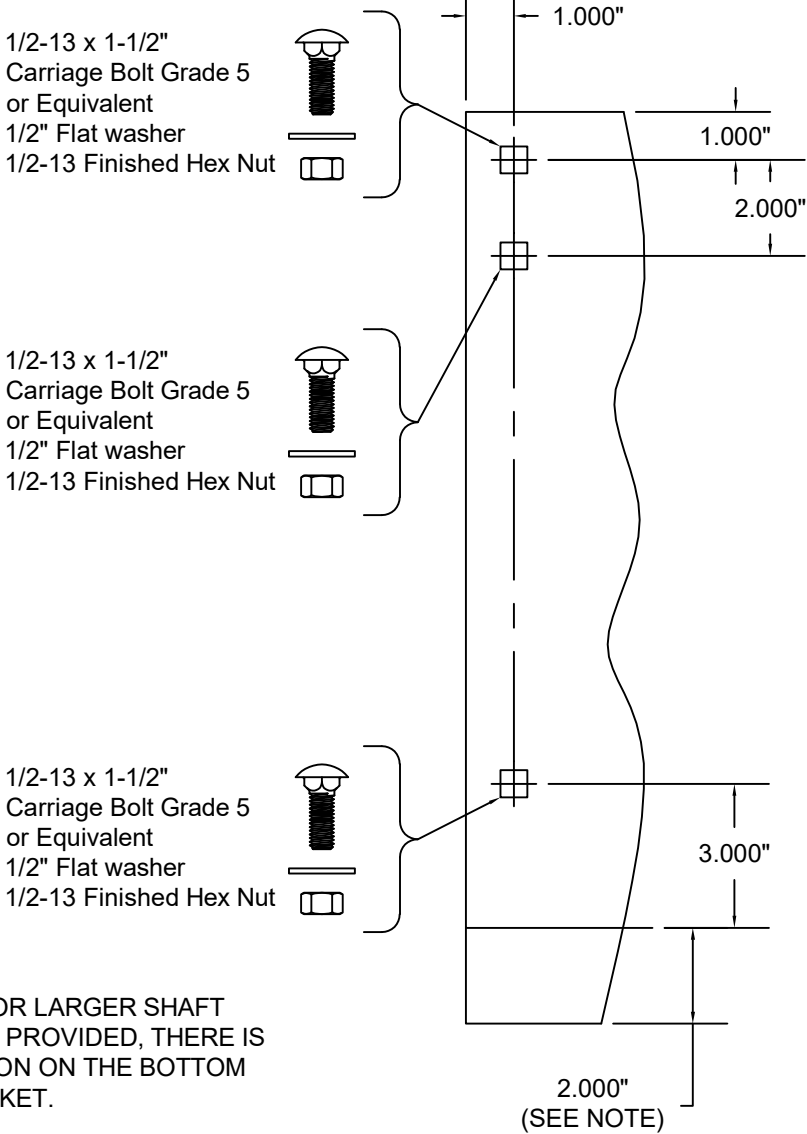
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L'TR	REVISION	DATE	BY	E.C.O.
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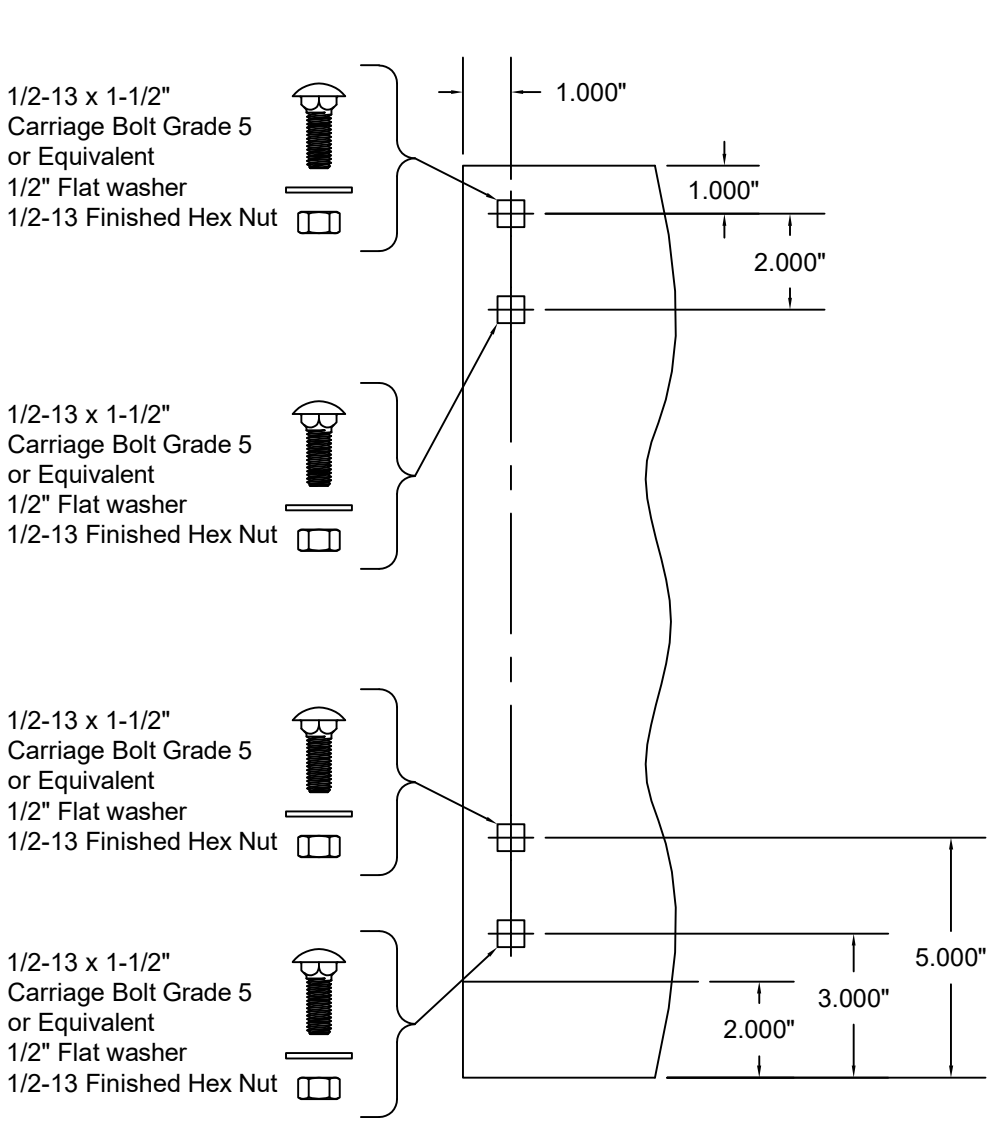


THRU 6"Ø SHAFT ASSEMBLY
 14" THRU 16" COIL DIMENSION
 MIN. THICKNESS 0.172" ASTM A36 STEEL
 OR ASTM A480 STAINLESS STEEL,
 TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
 SCALE: 1-1/2" = 1'-0"

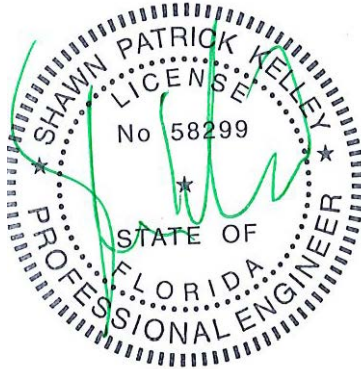
NOTE:
 WHEN A 8"Ø OR LARGER SHAFT
 ASSEMBLY IS PROVIDED, THERE IS
 A 2" EXTENSION ON THE BOTTOM
 OF THE BRACKET.



THRU 10"Ø SHAFT ASSEMBLY
 17" AND LARGER COIL DIMENSION
 MIN. THICKNESS 0.240" ASTM A36 STEEL
 OR ASTM A480 STAINLESS STEEL,
 TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
 SCALE: 1-1/2" = 1'-0"



12"Ø AND LARGER SHAFT ASSEMBLY
 17" AND LARGER COIL DIMENSION
 MIN. THICKNESS 0.240" ASTM A36 STEEL
 OR ASTM A480 STAINLESS STEEL,
 TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
 SCALE: 1-1/2" = 1'-0"



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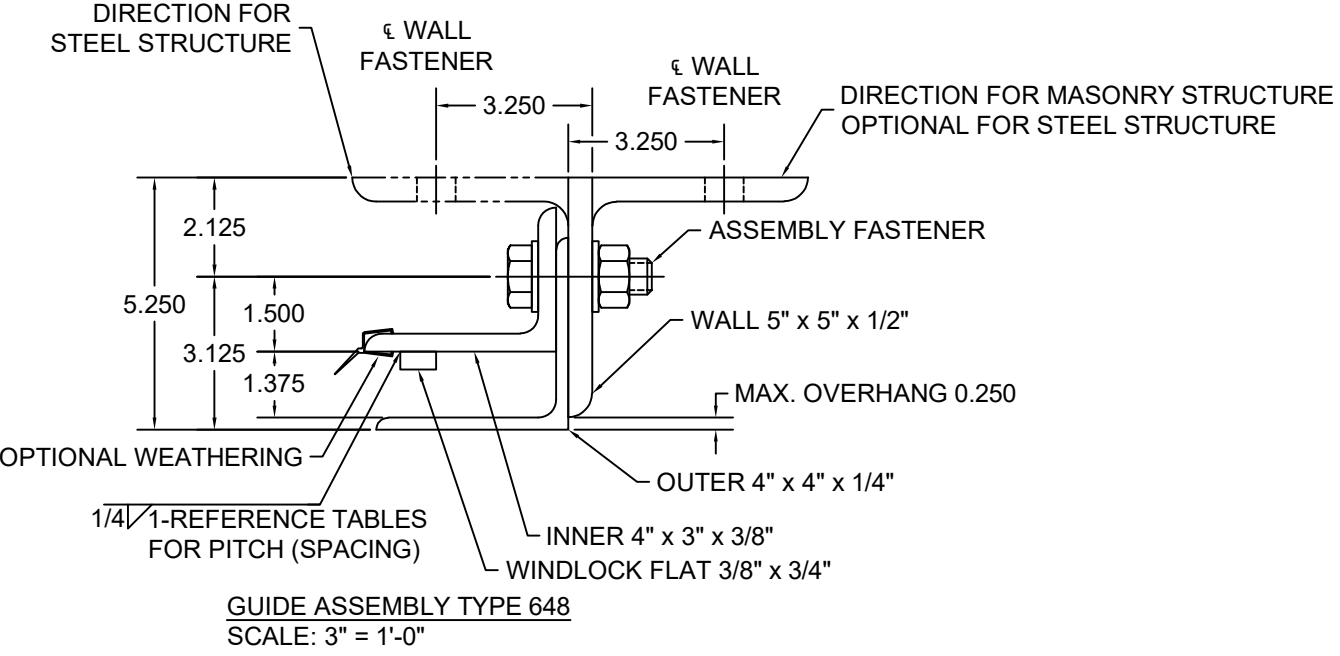
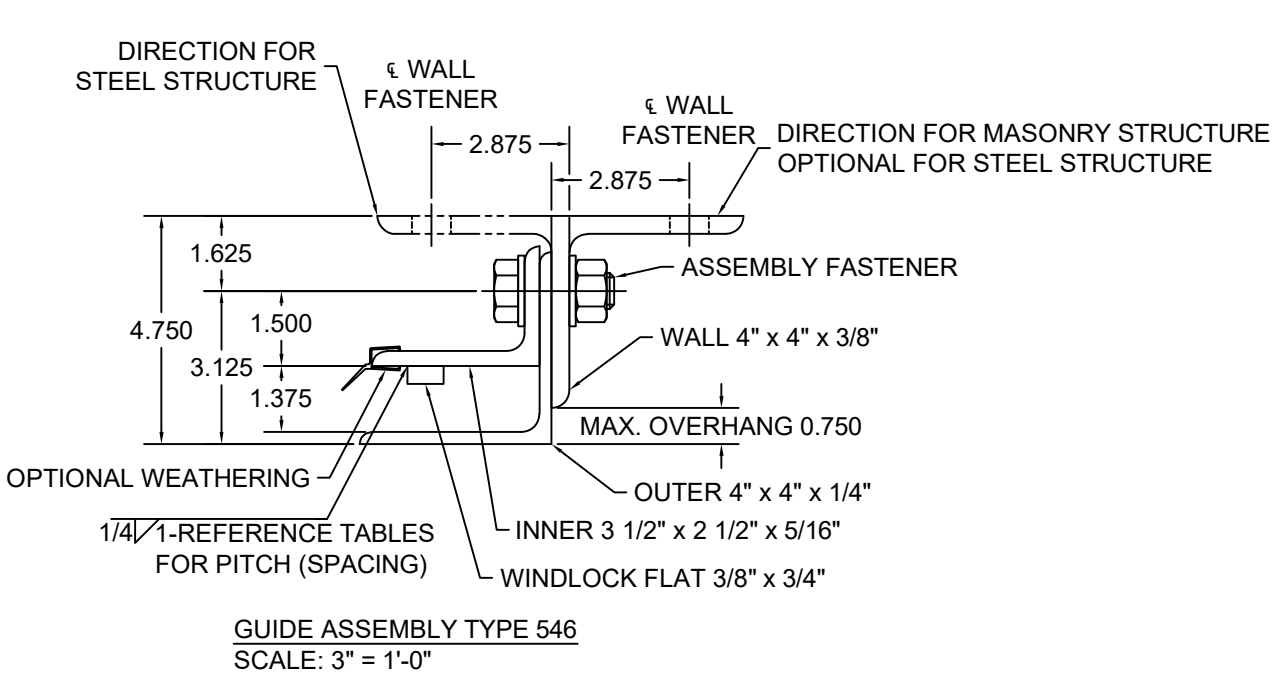
 0.000 = +/- 0.031
 FRACTIONAL = +/- 1/32
 ANGLES = +/- 1/2 DEG

WIND LOAD CONFIGURATION
 NON-INSULATED ROLLING STEEL DOOR
 CP0020 SLAT IMPACT RATED

DRAWN BY: KAD
 SIZE: B
 SCALE: AS NOTED
 SHEET: 6/36
 DWG NO: ES-16-135-TCCI

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

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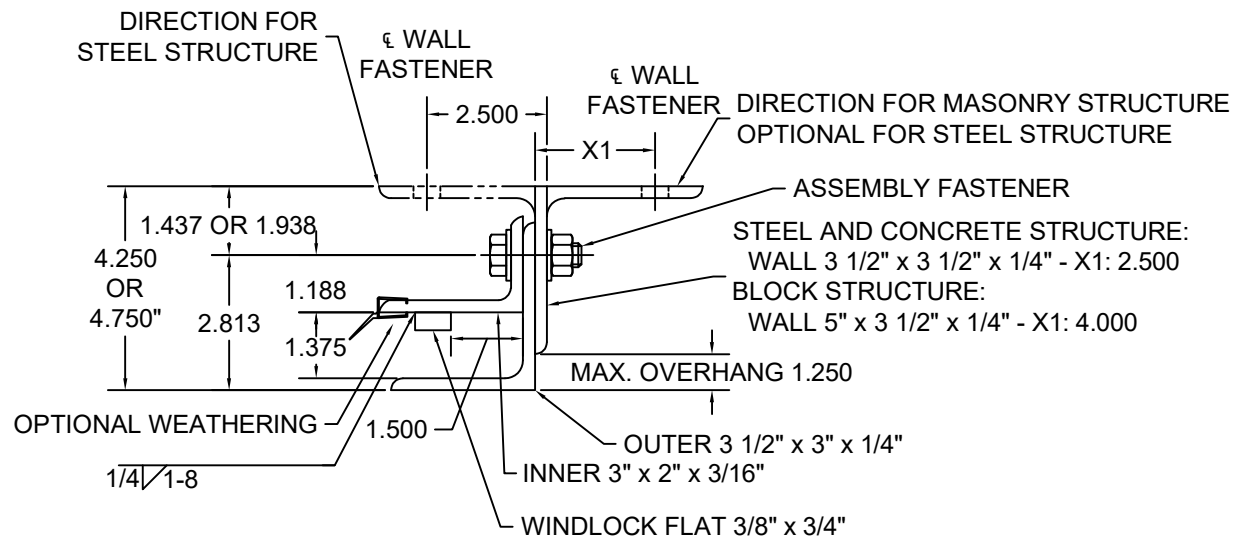


 COOKSON Preferred door solutions.	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
	P: 800.390.8590 F: 866.448.6798 E: ADS@COOKSONDOOR.COM		DRAWN BY: KAD	SIZE: B	SCALE: AS NOTED	SHEET: 8/36
	WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED		DWG NO: ES-16-135-TCCI			

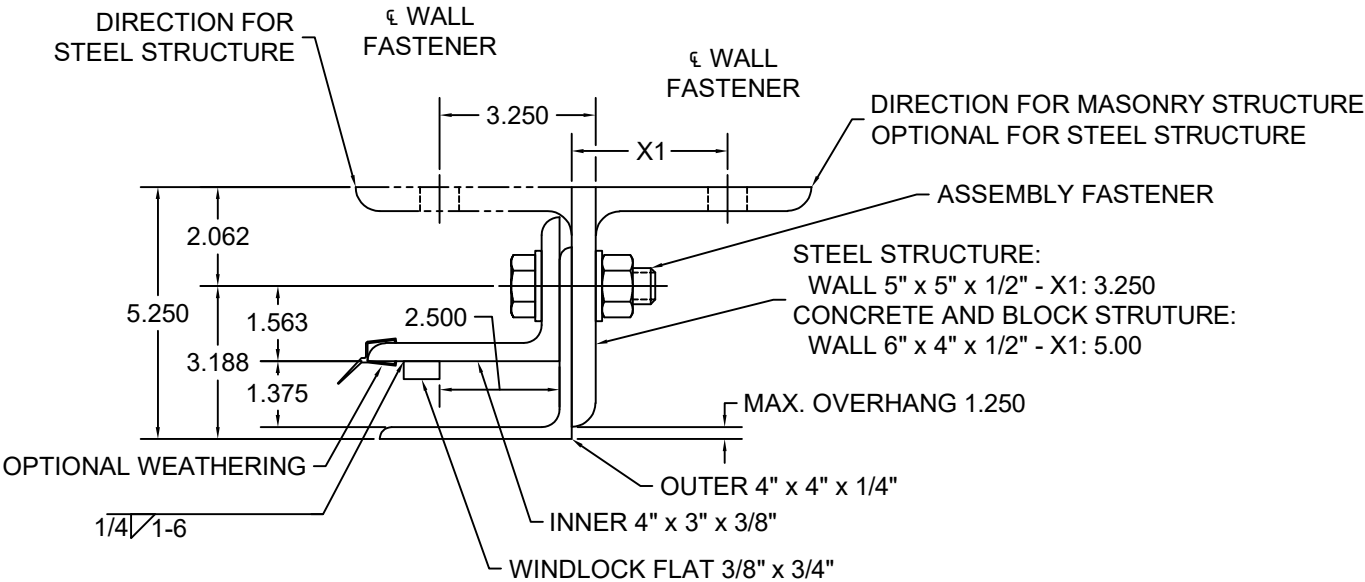
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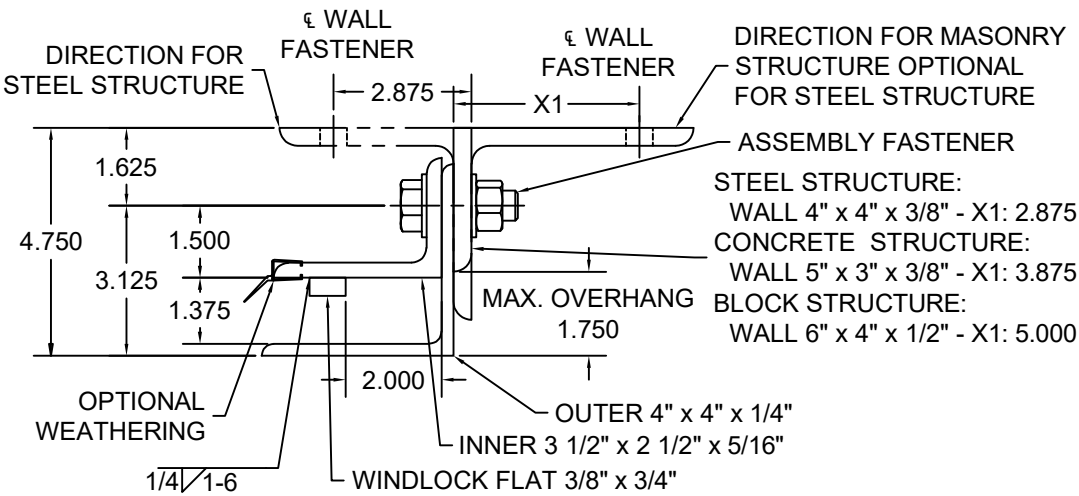
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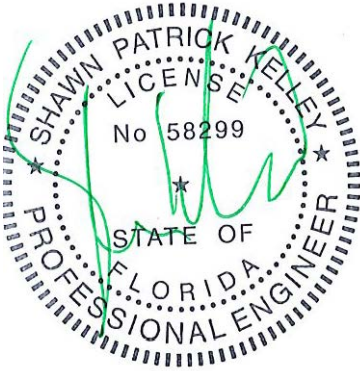
GUIDE ASSEMBLY TYPE DC 4
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE DC 6
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE DC 5
SCALE: 3" = 1'-0"



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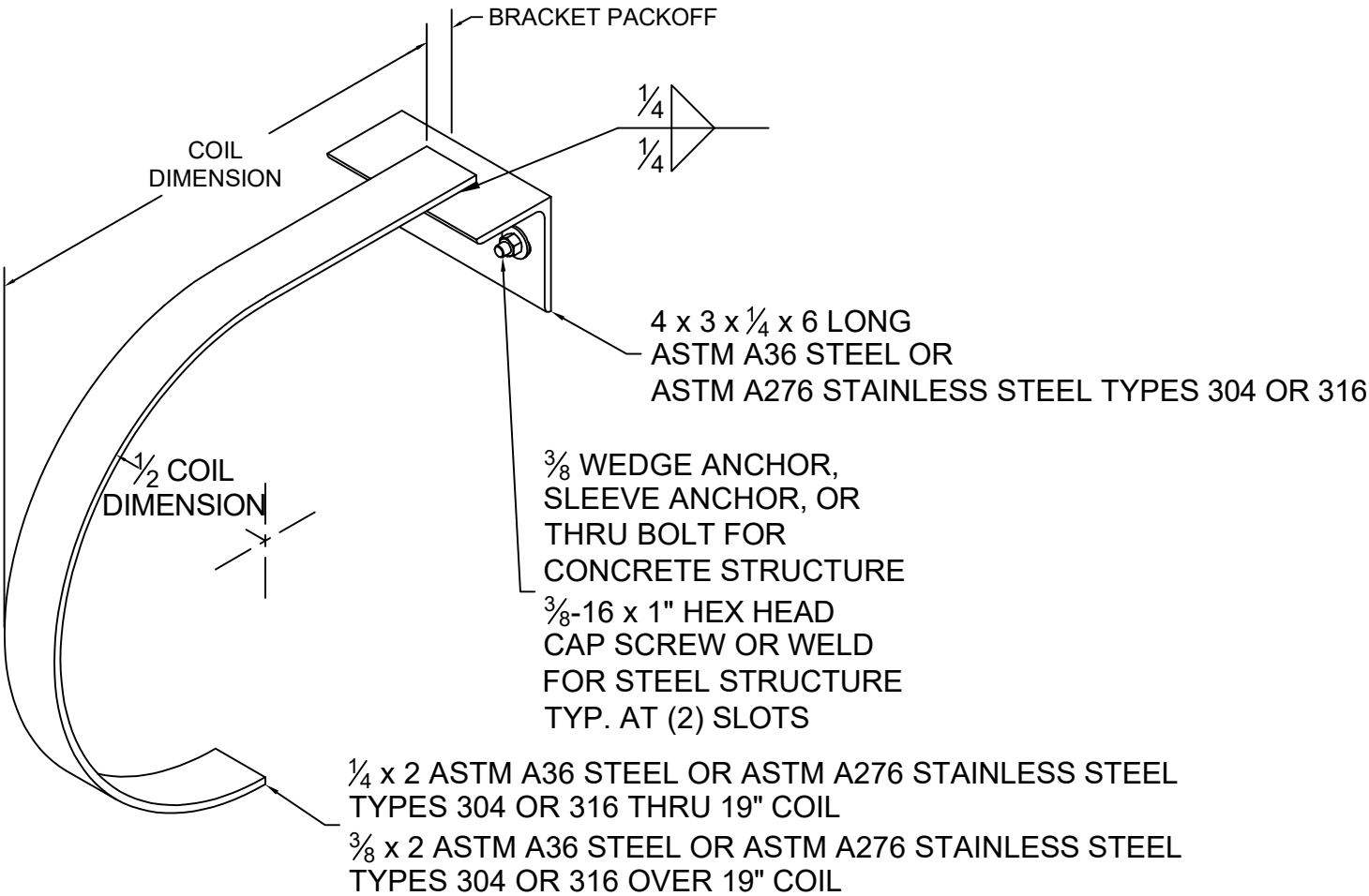
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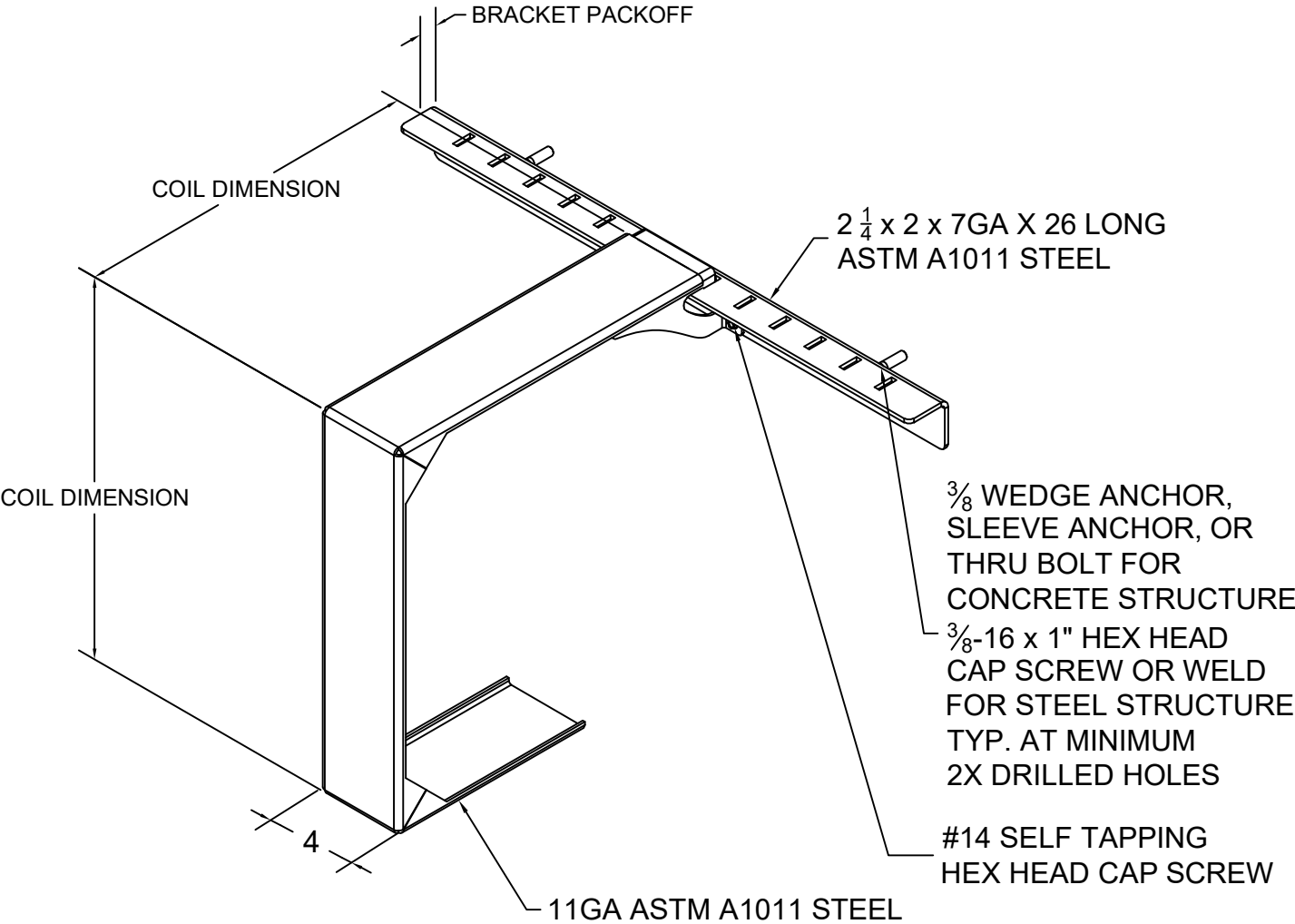
WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 9/36
DWG NO: ES-16-135-TCCI

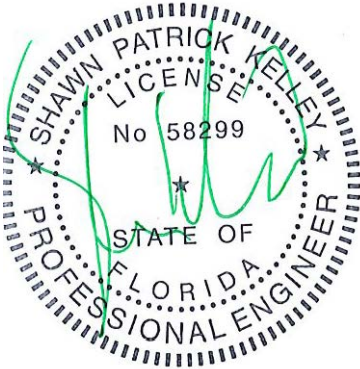
L'TR	REVISION	DATE	BY	E.C.O.
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MID-HOOD SUPPORT
(WHEN REQUIRED)
"D" SHAPE DEPICTED, SQUARE STYLE ALSO AVAILABLE
SCALE: NTS



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



Preferred door solutions. COOKSON	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
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WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED			DRAWN BY:	SIZE:	SCALE:	SHEET:
			KAD	B	AS NOTED	10/36
			DWG NO: ES-16-135-TCCI			

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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 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.		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 (+)
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	18	3/8	1 7/8	20	3/8	2 3/8	20	3/8	2 5/8	14	3/8	1 5/8	22	3/8	2 3/4	15	3/8	2	19	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	45	0	44	4'-5"	
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	33	1/2	3 3/4	22	1/2	2 1/2	22	1/2	3 1/2	36	1/2	4 1/4	29	1/2	3 1/2	36	1/2	4 1/4	28	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	0	45	0	44	4'-5"	
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	14	3/8	1 7/8	16	3/8	2 3/8	16	3/8	2 5/8	11	3/8	1 5/8	18	3/8	2 3/4	12	3/8	2	16	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	55	0	54	5'-5"	
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	27	1/2	3 3/4	18	1/2	2 1/2	18	1/2	3 1/2	36	1/2	4 1/4	24	1/2	3 1/2	36	1/2	4 1/4	23	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	0	55	0	54	5'-5"	
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	12	3/8	1 7/8	14	3/8	2 3/8	13	3/8	2 5/8	9	3/8	1 5/8	15	3/8	2 3/4	10	3/8	2	13	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	65	0	64	6'-5"	
6'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	23	1/2	3 3/4	15	1/2	2 1/2	15	1/2	3 1/2	36	1/2	4 1/4	20	1/2	3 1/2	36	1/2	4 1/4	19	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	0	65	0	64	6'-5"	
7'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	10	3/8	1 7/8	12	3/8	2 3/8	12	3/8	2 5/8	8	3/8	1 5/8	13	3/8	2 3/4	9	3/8	2	11	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	75	0	74	7'-5"	
7'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	20	1/2	3 3/4	13	1/2	2 1/2	13	1/2	3 1/2	36	1/2	4 1/4	17	1/2	3 1/2	36	1/2	4 1/4	17	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	0	75	0	74	7'-5"	
8'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	30	3/8	3 1/4	16	1/2	3 1/2	8	3/8	2	16	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	85	0	84	8'-5"	
8'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	17	1/2	3 3/4	11	1/2	2 1/2	11	1/2	3 1/2	36	1/2	4 1/4	15	1/2	3 1/2	36	1/2	4 1/4	15	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	0	85	0	84	8'-5"	
9'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	3/8	1 7/8	9	3/8	2 3/8	9	3/8	2 5/8	27	3/8	3 1/4	15	1/2	3 1/2	26	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	95	0	94	9'-5"	
9'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	16	1/2	3 3/4	10	1/2	2 1/2	10	1/2	3 1/2	36	1/2	4 1/4	13	1/2	3 1/2	34	1/2	4 1/4	13	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	0	95	0	94	9'-5"	
10'-5"	1 1/8	0.281	CP1152 & CP1153	333	12.0000	3/8	18.0000	15	3/8	1 7/8	13	3/8	2 3/8	12	3/8	2 5/8	12	3/8	1 5/8	14	3/8	2 3/4	13	3/8	2	12	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	62	105	43	104	10'-5"	
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	12.0000	1/2	18.0000	29	1/2	3 3/4	14	1/2	2 1/2	14	1/2	3 1/2	36	1/2	4 1/4	18	1/2	3 1/2	36	1/2	4 1/4	17	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	3/16	66	105	43	104	10'-5"	
11'-5"	1 3/16	0.344	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	3/8	1 7/8	11	3/8	2 3/8	11	3/8	2 5/8	26	3/8	3 1/4	12	3/8	2 3/4	26	3/8	3 1/4	10	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	24	20	3/16	184	115	169	115	11'-5"	
11'-5"	1 3/16	0.344	CP1152 & CP1153	344	12.0000	1/2	18.0000	20	1/2	3 3/4	16	1/2	2 1/2	17	1/2	3 1/2	36	1/2	4 1/4	21	1/2	3 1/2	36	1/2	4 1/4	18	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	29	1/4	188	115	169	115	11'-5"		
12'-5"	1 5/16	0.469	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	9	3/8	2 3/8	9	3/8	2 5/8	22	3/8	3 1/4	13	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	18	15	3/16	239	125	227	125	12'-5"	
12'-5"	1 5/16	0.469	CP1152 & CP1153	344	12.0000	1/2	18.0000	17	1/2	3 3/4	12	1/2	2 1/2	13	1/2	3 1/2	36	1/2	4 1/4	16	1/2	3 1/2	36	1/2	4 1/4	14	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	32	23	1/4	242	125	227	125	12'-5"	
13'-5"	1 7/16	0.594	CP1152 & CP1153	333	12.0000	3/8	18.0000	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	10	5/8	4 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	32	15	12	3/16	295	135	286	135	13'-5"	
13'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	16	1/2	3 3/4	11	1/2	2 1/2	11	1/2	3 1/2	36	1/2	4 1/4	14	1/2	3 1/2	36	1/2	4 1/4	12	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	29	21	1/4	265	135	254	135	13'-5"	
14'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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					8	3/8	5 3/16	32	36	7/16" x 5/8"	32	25	11	9	3/16	380	145	372	145	14'-5"
14'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	12	1/2	3 3/4	8	1/2	2 1/2	8	1/2	3 1/2	28	1/2	4 1/4	14	5/8	4 1/2	26	1/2	4 1/4	10	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	20	14	1/4	382	145	372	145	14'-5"	
15'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	1/2	3 3/4	N/A			8	5/8	4 3/8	10	3/8	3 1/4	N/A			10	3/8	3 1/4					8	3/8	5 3/16	25	36	7/16" x 5/8"	25	18	9	7	3/16	491	155	483	155	15'-5"
15'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	22	1/2	4 1/4	14	3/4	5 1/2	20	1/2	4 1/4					8	1/2	5 3/4	32	36	9/16" x 3/4"	36	34	11	1/4	492	155	483	155	15'-5"	
16'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	15.0000	8	5/8	4 1/2	N/A			8																															

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CP0020 - 0.0296 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.										
4'-5"	333		N/A		36	2 3/8	4	36	2 3/8	3 3/4	36	2 1/2	4	36	2 1/2	4	36	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		34	1 7/8	3 1/4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	4'-5"							
4'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"							
5'-5"	333		N/A		35	2 3/8	4	34	2 3/8	3 3/4	36	2 1/2	4	36	2 1/2	4	34	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		31	1 7/8	3 1/4	35	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	5'-5"							
5'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"							
6'-5"	333		N/A		33	2 3/8	4	31	2 3/8	3 3/4	33	2 1/2	4	36	2 1/2	4	31	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		28	1 7/8	3 1/4	32	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	6'-5"							
6'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	6'-5"							
7'-5"	333		N/A		30	2 3/8	4	29	2 3/8	3 3/4	30	2 1/2	4	36	2 1/2	4	29	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		26	1 7/8	3 1/4	30	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	7'-5"							
7'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	35	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	7'-5"							
8'-5"	333		N/A		28	2 3/8	4	27	2 3/8	3 3/4	29	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		25	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	8'-5"							
8'-5"	344	36	3 7/8	6	36	3 5/8	6	35	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	35	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	33	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	8'-5"							
9'-5"	333		N/A		27	2 3/8	4	26	2 3/8	3 3/4	27	2 1/2	4	35	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	26	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	9'-5"							
9'-5"	344	36	3 7/8	6	34	3 5/8	6	33	3 3/4	6	35	3 3/4	5 1/2	36	4 1/4	6 3/4	34	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	31	2 1/2	4	35	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	9'-5"							
10'-5"	333		N/A		34	2 3/8	4	33	2 3/8	3 3/4	35	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		27	1 7/8	3 1/4	35	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	10'-5"							
10'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	10'-5"							
11'-5"	333		N/A		24	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	31	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		18	1 7/8	3 1/4	25	2 1/2	4	34	2 1/2	4	34	2 1/2	4	5 3/16	11'-5"							
11'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	32	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	11'-5"							
12'-5"	333		N/A		21	2 3/8	4	21	2 3/8	3 3/4	23	2 1/2	4	28	2 1/2	4	21	2 1/4	4	33	3 1/2	4 3/4	36		36		N/A		16	1 7/8	3 1/4	22	2 1/2	4	31	2 1/2	4	31	2 1/2	4	5 3/16	12'-5"							
12'-5"	344	36	3 7/8	6	34	3 5/8	6	32	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	35	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	28	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	12'-5"							
13'-5"	333		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		14	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	28	2 1/2	4	5 3/16	13'-5"							
13'-5"	344	36	3 7/8	6	32	3 5/8	6	31	3 3/4	6	34	3 3/4	5 1/2	36	4 1/4	6 3/4	33	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	27	2 1/2	4	35	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	13'-5"							
14'-5"	333		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	22	3 1/2	4 3/4	36		36		N/A		12	1 7/8	3 1/4	18	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/16	14'-5"							
14'-5"	344	30	3 7/8	6	27	3 5/8	6	25	3 3/4	6	29	3 3/4	5 1/2	35	4 1/4	6 3/4	28	4	6	36	4 1/4	5 1/2	36		36	30	3 7/8	6	22	2 1/2	4	30	3 3/4	5 1/2	33	4 1/4	6 3/4	36	4	6 1/4	5 3/4	14'-5"							
15'-5"	333		N/A		14	2 3/8	4	14	2 3/8	3 3/4	16	2 1/2	4	19	2 1/2	4	12	2 1/4	4	18	3 1/2	4 3/4	36		31		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 3/16	15'-5"							
15'-5"	344	26	3 7/8	6	23	3 5/8	6	22	3 3/4	6	25	3 3/4	5 1/2	30	4 1/4	6 3/4	24	4	6	35	4 1/4	5 1/2	36		36	26	3 7/8	6	19	2 1/2	4	26	3 3/4	5 1/2	28	4 1/4	6 3/4	34	4	6 1/4	5 3/4	15'-5"							
16'-5"	333		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	16	2 1/2	4	18	2 1/2	4	5 3/16	16'-5"							
16'-5"	344	24	3 7/8	6	21	3 5/8	6	20	3 3/4	6	23	3 3/4	5 1/2	27	4 1/4	6 3/4	22	4	6	29	4 1/4	5 1/2	36		36	24	3 7/8	6	16	2 1/2	4	23	3 3/4	5 1/2	25	4 1/4	6 3/4	30	4	6 1/4	5 3/4	16'-5"							
17'-5"	334		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	31		21		N/A					13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 7/16	17'-5"							
17'-5"	344	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	25	4 1/4	5 1/2	36		36	22	3 7/8	6	12	2 1/2	4	21	3 3/4	5 1/2	23	4 1/4	6 3/4	27	4	6 1/4	5 3/4	17'-5"							
18'-5"	334		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					5	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 7/16	18'-5"							
18'-5"	344	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	18	4	6	22	4 1/4	5 1/2	36		36	20	3 7/8	6				20	3 3/4	5 1/2	20	4 1/4	6 3/4	25	4	6 1/4	5 3/4	18'-5"							
19'-5"	344	19	3 7/8	6	14	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	20	4 1/4	5 1/2	36		36	18	3 7/8	6				18	3 3/4	5 1/2	16	4 1/4	6 3/4	24	4	6 1/4	5 3/4	19'-5"							
20'-5"	344	17</																																															

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Guide Construction								CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 30 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 (-)		
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	12	3/8	1 7/8	13	3/8	2 3/8	13	3/8	2 5/8	9	3/8	1 5/8	14	3/8	2 3/4	10	3/8	2	13	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	67	0	66	4'-5"	
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	22	1/2	3 3/4	15	1/2	2 1/2	15	1/2	3 1/2	36	1/2	4 1/4	19	1/2	3 1/2	36	1/2	4 1/4	18	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	68	0	66	4'-5"	
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	1 7/8	11	3/8	2 3/8	10	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	82	0	81	5'-5"	
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	18	1/2	3 3/4	12	1/2	2 1/2	12	1/2	3 1/2	36	1/2	4 1/4	16	1/2	3 1/2	36	1/2	4 1/4	15	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	83	0	81	5'-5"	
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	3/8	1 7/8	9	3/8	2 3/8	9	3/8	2 5/8	26	3/8	3 1/4	14	1/2	3 1/2	26	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	97	0	96	6'-5"	
6'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	15	1/2	3 3/4	10	1/2	2 1/2	10	1/2	3 1/2	36	1/2	4 1/4	13	1/2	3 1/2	33	1/2	4 1/4	13	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	98	0	96	6'-5"	
7'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	13	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	23	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	112	0	111	7'-5"	
7'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	13	1/2	3 3/4	9	1/2	2 1/2	9	1/2	3 1/2	35	1/2	4 1/4	15	5/8	4 1/2	29	1/2	4 1/4	15	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	113	0	111	7'-5"	
10'-5"	1 1/8	0.281	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	1/2	3 3/4	9	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		8	3/8	5 3/16	32	36	7/16" x 5/8"	31	24	11	9	3/16	390	157	367	157	10'-5"		
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	8	1/2	2 1/2	8	1/2	3 1/2	26	1/2	4 1/4	14	5/8	4 1/2	24	1/2	4 1/4	10	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	14	394	158	367	157	10'-5"
11'-5"	1 3/16	0.344	CP1152 & CP1153	333	12.0000	3/8	17.0000	9	5/8	4 1/2	N/A		N/A		8	5/8	4 3/8	9	3/8	3 1/4	N/A		9	3/8	3 1/4	N/A		8	3/8	5 3/16	23	36	7/16" x 5/8"	23	17	8	7	3/16	523	172	504	172	11'-5"		
11'-5"	1 3/16	0.344	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4	8	5/8	3 3/8	9	5/8	4 3/8	20	1/2	4 1/4	13	3/4	5 1/2	18	1/2	4 1/4	N/A		8	1/2	5 3/4	30	36	9/16" x 3/4"	36	32	15	10	1/4	527	173	504	172	11'-5"		
12'-5"	1 5/16	0.469	CP1152 & CP1153	333	12.0000	3/8	15.0000	8	5/8	4 1/2	N/A		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 3/16	22	34	7/16" x 5/8"	21	15	8	6	3/16	566	187	551	187	12'-5"		
12'-5"	1 5/16	0.469	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4	N/A		N/A		8	5/8	4 3/8	19	1/2	4 1/4	12	3/4	5 1/2	16	1/2	4 1/4	N/A		8	1/2	5 3/4	28	36	9/16" x 3/4"	36	30	13	10	1/4	569	188	551	187	12'-5"	
13'-5"	1 7/16	0.594	CP1152 & CP1153	334	12.0000	3/8	14.0000	8	5/8	4 1/2	N/A		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 7/16	20	31	7/16" x 5/8"	19	13	7	6	3/16	620	202	608	202	13'-5"		
13'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4	N/A		N/A		8	5/8	4 3/8	19	1/2	4 1/4	N/A		15	1/2	4 1/4	N/A		8	1/2	5 3/4	28	36	9/16" x 3/4"	36	29	13	9	1/4	574	202	560	202	13'-5"		
14'-5"	1 1/2	0.656	CP1152 & CP1153	334	12.0000	3/8	12.0000	13	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 7/16	17	27	7/16" x 5/8"	15	10	6	5	3/16	724	217	713	217	14'-5"			
14'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	5/8	4 1/2	N/A		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	5 3/4	22	35	9/16" x 3/4"	30	23	10	7	1/4	726	217	713	217	14'-5"		
15'-5"	1 1/2	0.656	CP1152 & CP1153	344	11.0000	1/2	18.0000	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	5 3/4	18	29	9/16" x 3/4"	25	19	9	6	1/4	872	233	859	233	15'-5"			
16'-5"	1 1/2	0.656	CP1152 & CP1153	344	10.0000	1/2	18.0000	10	3/4	5 1/2	N/A		N/A		N/A		9	1/2	4 1/4	N/A		8	1/2	4 1/4	N/A		8	1/2	5 3/4	16	25	9/16" x 3/4"	21	15	7	5	1/4	1015	248	1003	248	16'-5"			
17'-5"	1 1/2	0.656	CP1152 & CP1153	344	9.0000	1/2	18.0000	8	3/4	5 1/2	N/A		N/A		N/A		9	3/4	6 1/4	N/A		N/A		N/A		N/A		8	1/2	5 3/4	14	22	9/16" x 3/4"	18	12	6	5	1/4	1156	263	1144	263	17'-5"		
18'-5"	2	1.156	CP1152 & CP1153	445	10.0000	5/8	18.0000	12	3/4	5 1/2	N/A		N/A		N/A		9	5/8	5	N/A		N/A		N/A		N/A		8	5/8	6 13/16	26	35	11/16" x 7/8"	36	36	17	12	5/16	925	276	917	277	18'-5"		
19'-5"	2	1.156	CP1152 & CP1153	445	10.0000	5/8	18.0000	10	3/4	5 1/2	N/A		N/A		N/A		8	5/8	5	N/A		N/A		N/A		N/A		8	5/8	6 13/16	23	31	11/16" x 7/8"	36	33	15	11	5/16	1036	291	1028	292	19'-5"		
20'-5"	2	1.156	CP1152 & CP1153	445	9.0000	5/8	18.0000	9	3/4	5 1/2	N/A		N/A		N/A		10	3/4	6 1/4	N/A		N/A		N/A		N/A		8	5/8	6 13/16	21	28	11/16" x 7/8"	36	29	13	9	5/16	1145	306	1137	307	20'-5"		
21'-5"	2	1.156	CP1152 & CP1153	445	9.0000	5/8	18.0000	8	3/4	5 1/2	N/A		N/A		N/A		9	3/4	6 1/4	N/A		N/A		N/A		N/A		8	5/8	6 13/16	19	26	11/16" x 7/8"	35	27	12	9	5/16	1255	321	1247	322	21'-5"		
22'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A		N/A		N/A		N/A		N/A		8	3/4	6 1/4	N/A		N/A		N/A		N/A		8	5/8	6 13/16	17	24	11/16" x 7/8"	32	24	11	8	5/16	1366	336	1358	337	22'-5"	
23'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8	5/8	6 13/16	16	22	11/16" x 7/8"	29	22	10	7	5/16	1477	352	1469	353	23'-5"		
24'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8	5/8	6 13/16	15	20	11/16" x 7/8"	27	19	9	7	5/16	1588	367	1580	368	24'-5"		
25'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8	5/8	6 13/16	14	19	11/16" x 7/8"	25	18	9	6	5/16	1701	382	1693	383	25'-5"		
26'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	18.0000	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"	22	15	8	5	5/16	1815	397	1807	398	26'-5"		
27'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000	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	17	11/16" x 7/8"	20	14	7	5	5/16	1931	413	1922	414	27'-5"		
28'-5"	2	1.156	CP1152 & CP115																																										

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*	ORIGINAL ISSUE	11/24/2025	KAD	2398

CP0020 - 0.0296 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.			
4'-5"	333		N/A		32	2 3/8	4	31	2 3/8	3 3/4	32	2 1/2	4	36	2 1/2	4	31	2 1/4	4	36	3 1/2	4 3/4	36				N/A		28	1 7/8	3 1/4	31	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	4'-5"
4'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"
5'-5"	333		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				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 3/16	5'-5"
5'-5"	344	36	3 7/8	6	36	3 5/8	6	35	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	33	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"
6'-5"	333		N/A		26	2 3/8	4	25	2 3/8	3 3/4	27	2 1/2	4	35	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36				N/A		23	1 7/8	3 1/4	26	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	6'-5"
6'-5"	344	35	3 7/8	6	33	3 5/8	6	32	3 3/4	6	34	3 3/4	5 1/2	36	4 1/4	6 3/4	33	4	6	36	4 1/4	5 1/2	36		35	35	3 7/8	6	31	2 1/2	4	35	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	6'-5"
7'-5"	333		N/A		25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	32	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4	36				N/A		21	1 7/8	3 1/4	24	2 1/2	4	34	2 1/2	4	34	2 1/2	4	5 3/16	7'-5"
7'-5"	344	33	3 7/8	6	31	3 5/8	6	30	3 3/4	6	32	3 3/4	5 1/2	36	4 1/4	6 3/4	31	4	6	36	4 1/4	5 1/2	36		33	33	3 7/8	6	29	2 1/2	4	33	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	7'-5"
10'-5"	333		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				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 3/16	10'-5"
10'-5"	344	29	3 7/8	6	26	3 5/8	6	24	3 3/4	6	28	3 3/4	5 1/2	33	4 1/4	6 3/4	27	4	6	36	4 1/4	5 1/2	36		29	29	3 7/8	6	21	2 1/2	4	28	3 3/4	5 1/2	31	4 1/4	6 3/4	36	4	6 1/4	5 3/4	10'-5"
11'-5"	333		N/A		12	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		29		N/A		7	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	20	2 1/2	4	5 3/16	11'-5"
11'-5"	344	25	3 7/8	6	22	3 5/8	6	21	3 3/4	6	24	3 3/4	5 1/2	29	4 1/4	6 3/4	23	4	6	32	4 1/4	5 1/2	36		25	25	3 7/8	6	18	2 1/2	4	24	3 3/4	5 1/2	27	4 1/4	6 3/4	32	4	6 1/4	5 3/4	11'-5"
12'-5"	333		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	17	2 1/2	4	19	2 1/2	4	5 3/16	12'-5"
12'-5"	344	24	3 7/8	6	21	3 5/8	6	20	3 3/4	6	23	3 3/4	5 1/2	27	4 1/4	6 3/4	22	4	6	30	4 1/4	5 1/2	36		24	24	3 7/8	6	16	2 1/2	4	23	3 3/4	5 1/2	25	4 1/4	6 3/4	30	4	6 1/4	5 3/4	12'-5"
13'-5"	334		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		24		N/A		6	1 7/8	3 1/4	14	2 1/2	4	17	2 1/2	4	18	2 1/2	4	5 7/16	13'-5"
13'-5"	344	24	3 7/8	6	21	3 5/8	6	20	3 3/4	6	23	3 3/4	5 1/2	27	4 1/4	6 3/4	22	4	6	29	4 1/4	5 1/2	36		24	24	3 7/8	6	16	2 1/2	4	23	3 3/4	5 1/2	25	4 1/4	6 3/4	30	4	6 1/4	5 3/4	13'-5"
14'-5"	334		N/A		10	2 3/8	4	5	2 3/8	4	13	2 1/2	4	15	2 1/2	4	5	2 1/4	4	13	3 1/2	4 3/4	29		19		N/A			N/A		12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 7/16	14'-5"
14'-5"	344	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	24	4 1/4	5 1/2	36		21	21	3 7/8	6	10	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	14'-5"
15'-5"	344	19	3 7/8	6	14	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	20	4 1/4	5 1/2	36		18	18	3 7/8	6		N/A		18	3 3/4	5 1/2	17	4 1/4	6 3/4	24	4	6 1/4	5 3/4	15'-5"
16'-5"	344	17	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	17	4 1/4	5 1/2	36		34	15	3 7/8	6		N/A		17	3 3/4	5 1/2	13	4 1/4	6 3/4	22	4	6 1/4	5 3/4	16'-5"
17'-5"	344	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	11	4	6	15	4 1/4	5 1/2	36		28	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	17'-5"
18'-5"	445	24	5 1/8	7 7/8	22	4 1/2	6	22	4 5/8	7	23	4 1/2	6	25	5	7		N/A		29	5	6 1/4	36		24	24	5 1/8	7 7/8		N/A		24	4 1/2	6		N/A		29	5 1/2	8 1/2	6 13/16	18'-5"
19'-5"	445	23	5 1/8	7 7/8	21	4 1/2	6	20	4 5/8	7	22	4 1/2	6	23	5	7		N/A		26	5	6 1/4	36		36	22	5 1/8	7 7/8		N/A		22	4 1/2	6		N/A		27	5 1/2	8 1/2	6 13/16	19'-5"
20'-5"	445	22	5 1/8	7 7/8	19	4 1/2	6	19	4 5/8	7	20	4 1/2	6	22	5	7		N/A		24	5	6 1/4	36		36	21	5 1/8	7 7/8		N/A		21	4 1/2	6		N/A		25	5 1/2	8 1/2	6 13/16	20'-5"
21'-5"	445	20	5 1/8	7 7/8	18	4 1/2	6	18	4 5/8	7	19	4 1/2	6	21	5	7		N/A		22	5	6 1/4	36		36	20	5 1/8	7 7/8		N/A		20	4 1/2	6		N/A		24	5 1/2	8 1/2	6 13/16	21'-5"
22'-5"	445	19	5 1/8	7 7/8	17	4 1/2	6	16	4 5/8	7	18	4 1/2	6	20	5	7		N/A		20	5	6 1/4	36		36	19	5 1/8	7 7/8		N/A		19	4 1/2	6		N/A		22	5 1/2	8 1/2	6 13/16	22'-5"
23'-5"	445	18	5 1/8	7 7/8	16	4 1/2	6	11	4 5/8	7	11	4 1/2	6	19	5	7		N/A		19	5	6 1/4	36		36	18	5 1/8	7 7/8		N/A		11	4 1/2	6		N/A		20	5 1/2	8 1/2	6 13/16	23'-5"
24'-5"	445	18	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	17	5 1/8	7 7/8		N/A		10	4 1/2	6		N/A		19	5 1/2	8 1/2	6 13/16	24'-5"
25'-5"	445	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		35	15	5 1/8	7 7/8		N/A		9	4 1/2	6		N/A		10	5 1/2	8 1/2	6 13/16	25'-5"
26'-5"	546	16	5 1/8	7 7/8	9	4 1/2	6	9	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		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	8	4 5/8	7	8	4 1/2	6	10	5																											

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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.		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 (-)				
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	28	3/8	3 1/4	15	1/2	3 1/2	28	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	3/16	0	90	0	88	4'-5"									
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	16	1/2	3 3/4	11	1/2	2 1/2	11	1/2	3 1/2	36	1/2	4 1/4	14	1/2	3 1/2	36	1/2	4 1/4	14	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	1/4	0	90	0	88	4'-5"									
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	13	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	23	3/8	3 1/4	12	1/2	3 1/2	23	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	3/16	0	110	0	108	5'-5"									
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	13	1/2	3 3/4	9	1/2	2 1/2	9	1/2	3 1/2	36	1/2	4 1/4	12	1/2	3 1/2	29	1/2	4 1/4	11	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	1/4	0	110	0	108	5'-5"									
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	19	3/8	3 1/4	14	5/8	4 1/2	19	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	3/16	0	130	0	128	6'-5"									
6'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	10	5/8	4 3/8	13	5/8	4 3/8	30	1/2	4 1/4	13	5/8	4 1/2	25	1/2	4 1/4	13	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	1/4	0	130	0	128	6'-5"									
10'-5"	1 1/8	0.281	CP1152 & CP1153	334	12.0000	3/8	13.0000	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 7/16	18	26	7/16" x 5/8"	15	10	6	5	3/16	718	210	691	210	10'-5"							
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	5/8	4 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	5 3/4	22	34	9/16" x 3/4"	30	23	11	7	1/4	723	211	691	210	10'-5"							
11'-5"	1 3/16	0.344	CP1152 & CP1153	344	11.0000	1/2	18.0000	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	5 3/4	18	29	9/16" x 3/4"	25	19	9	6	1/4	866	231	839	230	11'-5"							
12'-5"	1 5/16	0.469	CP1152 & CP1153	344	11.0000	1/2	18.0000	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	5 3/4	18	28	9/16" x 3/4"	24	18	8	6	1/4	897	250	875	250	12'-5"							
13'-5"	1 1/2	0.656	CP1152 & CP1153	344	11.0000	1/2	18.0000	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	5 3/4	18	29	9/16" x 3/4"	25	18	9	6	1/4	883	270	867	270	13'-5"							
14'-5"	1 1/2	0.656	CP1152 & CP1153	344	10.0000	1/2	18.0000	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	5 3/4	15	24	9/16" x 3/4"	20	14	7	5	1/4	1069	290	1054	290	14'-5"							
15'-5"	1 3/4	0.906	CP1152 & CP1153	445	10.0000	5/8	18.0000	10	3/4	5 1/2	N/A			N/A			8	5/8	5	N/A			N/A			N/A			8	5/8	6 13/16	23	32	11/16" x 7/8"	36	33	15	11	5/16	1024	308	1011	309	15'-5"							
16'-5"	2	1.156	CP1152 & CP1153	445	10.0000	5/8	18.0000	10	3/4	5 1/2	N/A			N/A			8	5/8	5	N/A			N/A			N/A			8	5/8	6 13/16	23	32	11/16" x 7/8"	36	33	15	11	5/16	1014	328	1004	329	16'-5"							
17'-5"	2	1.156	CP1152 & CP1153	445	9.0000	5/8	18.0000	9	3/4	5 1/2	N/A			N/A			10	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	21	28	11/16" x 7/8"	36	29	13	9	5/16	1156	348	1146	349	17'-5"							
18'-5"	2	1.156	CP1152 & CP1153	445	9.0000	5/8	18.0000	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	18	25	11/16" x 7/8"	33	26	12	8	5/16	1296	368	1286	369	18'-5"							
19'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	16	22	11/16" x 7/8"	30	22	10	7	5/16	1437	388	1427	389	19'-5"							
20'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	15	20	11/16" x 7/8"	27	20	9	7	5/16	1578	408	1568	410	20'-5"							
21'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	13	19	11/16" x 7/8"	23	16	8	6	5/16	1720	429	1710	430	21'-5"							
22'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	17	11/16" x 7/8"	21	15	8	5	5/16	1863	449	1853	450	22'-5"							
23'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	16.0000	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	2007	469	1997	471	23'-5"							
24'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	15.0000	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	11	6	5	5/16	2153	490	2143	491	24'-5"							
25'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	14.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	14	11/16" x 7/8"	15	10	6	N/A		5/16	2301	510	2290	512	25'-5"						
26'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A		5/16	2451	531	2440	532	26'-5"						
27'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	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"	13	8	5	N/A		5/16	2602	552	2591	553	27'-5"						
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	15	16	7/8" x 1"	34	25	12	8	3/8	2282	569	2272	570	28'-5"							
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	18.0000	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"	32	23	11	8	3/8	2412	590	2402	590	29'-5"							
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	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	2545	610	2535	611	30'-5"							
31'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	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	2678	631	2668	631	31'-5"							
32'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2814	651	2804	652	32'-5"							
33'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2951	672	2941	672	33'-5"							
34'-5"	2 9/16	1.719	CP1152 & CP1153	DC6	6.0000	3/4	14.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	11	12	7/8" x 1"	24	16	9	6	3/8	3031	692	3021	692	34'-5"							

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CP0020 - 0.0296 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.							
4'-5"	333	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		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 3/16	4'-5"				
4'-5"	344	36	3 7/8	6	35	3 5/8	6	34	3 3/4	6	35	3 3/4	5 1/2	36	4 1/4	6 3/4	34	4	6	36	4 1/4	5 1/2		36		36	3 7/8	6	32	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"				
5'-5"	333	N/A			25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	32	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	34	2 1/2	4	35	2 1/2	4	5 3/16	5'-5"				
5'-5"	344	33	3 7/8	6	31	3 5/8	6	30	3 3/4	6	32	3 3/4	5 1/2	36	4 1/4	6 3/4	31	4	6	36	4 1/4	5 1/2		36		33	3 7/8	6	29	2 1/2	4	33	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"				
6'-5"	333	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		N/A			20	1 7/8	3 1/4	23	2 1/2	4	31	2 1/2	4	32	2 1/2	4	5 3/16	6'-5"				
6'-5"	344	30	3 7/8	6	29	3 5/8	6	28	3 3/4	6	29	3 3/4	5 1/2	36	4 1/4	6 3/4	29	4	6	36	4 1/4	5 1/2		36		30	3 7/8	6	26	2 1/2	4	30	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	6'-5"				
10'-5"	334	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		30		N/A			N/A			12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 7/16	10'-5"				
10'-5"	344	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	23	4 1/4	5 1/2		36		21	3 7/8	6	10	2 1/2	4	20	3 3/4	5 1/2	21	4 1/4	6 3/4	26	4	6 1/4	5 3/4	10'-5"				
11'-5"	344	19	3 7/8	6	14	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	20	4 1/4	5 1/2		36		18	3 7/8	6			N/A	18	3 3/4	5 1/2	16	4 1/4	6 3/4	24	4	6 1/4	5 3/4	11'-5"				
12'-5"	344	18	3 7/8	6	13	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	19	4 1/4	5 1/2		36		17	3 7/8	6			N/A	18	3 3/4	5 1/2	15	4 1/4	6 3/4	23	4	6 1/4	5 3/4	12'-5"				
13'-5"	344	18	3 7/8	6	13	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	19	4 1/4	5 1/2		36		17	3 7/8	6			N/A	18	3 3/4	5 1/2	16	4 1/4	6 3/4	23	4	6 1/4	5 3/4	13'-5"				
14'-5"	344	16	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	16	4 1/4	5 1/2		36		14	3 7/8	6			N/A	15	3 3/4	5 1/2	11	4 1/4	6 3/4	21	4	6 1/4	5 3/4	14'-5"				
15'-5"	445	23	5 1/8	7 7/8	21	4 1/2	6	21	4 5/8	7	22	4 1/2	6	23	5	7		N/A		26	5	6 1/4		36		22	5 1/8	7 7/8			N/A	22	4 1/2	6		N/A		27	5 1/2	8 1/2	6 13/16	15'-5"				
16'-5"	445	23	5 1/8	7 7/8	21	4 1/2	6	20	4 5/8	7	22	4 1/2	6	23	5	7		N/A		26	5	6 1/4		36		22	5 1/8	7 7/8			N/A	22	4 1/2	6		N/A		27	5 1/2	8 1/2	6 13/16	16'-5"				
17'-5"	445	21	5 1/8	7 7/8	19	4 1/2	6	19	4 5/8	7	20	4 1/2	6	22	5	7		N/A		23	5	6 1/4		36		21	5 1/8	7 7/8			N/A	21	4 1/2	6		N/A		25	5 1/2	8 1/2	6 13/16	17'-5"				
18'-5"	445	20	5 1/8	7 7/8	18	4 1/2	6	18	4 5/8	7	19	4 1/2	6	20	5	7		N/A		21	5	6 1/4		36		19	5 1/8	7 7/8			N/A	19	4 1/2	6		N/A		23	5 1/2	8 1/2	6 13/16	18'-5"				
19'-5"	445	19	5 1/8	7 7/8	16	4 1/2	6	11	4 5/8	7	17	4 1/2	6	19	5	7		N/A		19	5	6 1/4		36		18	5 1/8	7 7/8			N/A	18	4 1/2	6		N/A		21	5 1/2	8 1/2	6 13/16	19'-5"				
20'-5"	445	18	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		17	5 1/8	7 7/8			N/A	10	4 1/2	6		N/A		19	5 1/2	8 1/2	6 13/16	20'-5"				
21'-5"	546	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		13	5	6 1/4		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	21'-5"				
22'-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		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	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		9	5 1/8	7 7/8			N/A	7	4 1/2	6		N/A		9	5 1/2	8 1/2	6 7/8	23'-5"				
24'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	6	4 1/2	6	9	5	7		N/A		7	5	6 1/4		36		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	5	4 1/2	6		N/A			N/A		7	5	7		N/A		5	5	6 1/4		33		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"	546	7	5 1/8	7 7/8		N/A			N/A			N/A		6	5	7		N/A			N/A		30		20			N/A				N/A		N/A		N/A		6	5 1/2	8 1/2	6 7/8	26'-5"				
27'-5"	546	6	5 1/8	7 7/8		N/A			N/A			N/A		5	5	7		N/A			N/A		28		18			N/A				N/A		N/A		N/A		5	5 1/2	8 1/2	6 7/8	27'-5"				
28'-5"	648	11	5 3/4	8 3/4	7	5 1/2	8		N/A			N/A		9	5 1/2	8	11	6 1/4	8 1/8		N/A		12	6 5/8	7 7/8		11	5 3/4	8 3/4			N/A	8	5 1/2	8		N/A		10	6 1/4	10	7 1/2	28'-5"			
29'-5"	648	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		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"	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		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		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	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		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		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"	DC6	11	5 3/4	8 3/4	9	5 1/2	8	7	5 5/8	10	10	5 1/2	8	10	6 1/4	8 1/8		N/A		12	6 5/8	7 7/8		36		12	5 3/4	8 3/4	10	4 1/2	6	9	5 1/2	8		N/A		10	6 1/4	10	9 1/4	34'-5"				



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

P: 800.390.8590
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Unless otherwise specified,
dimensions are in inches &
tolerances are:

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

WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
KAD	B	AS NOTED	16/36
DWG NO: ES-16-135-TCCI			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

CP0020 - 0.0296 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 (-)		
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	13	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	23	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	112	0	110	4'-5"	
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	13	1/2	3 3/4	9	1/2	2 1/2	9	1/2	3 1/2	35	1/2	4 1/4	15	5/8	4 1/2	29	1/2	4 1/4	15	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	113	0	110	4'-5"	
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	137	0	135	5'-5"	
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	9	5/8	3 3/8	12	5/8	4 3/8	28	1/2	4 1/4	12	5/8	4 1/2	23	1/2	4 1/4	12	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	138	0	135	5'-5"	
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	10.0000	1/2	18.0000	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	5 3/4	15	24	9/16" x 3/4"	21	14	7	5	1/4	1051	264	1015	263	10'-5"	
11'-5"	1 3/16	0.344	CP1152 & CP1153	344	9.0000	1/2	18.0000	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	5 3/4	13	21	9/16" x 3/4"	17	12	6	N/A	1/4	1205	289	1175	289	11'-5"	
13'-5"	1 7/16	0.594	CP1152 & CP1153	445	9.0000	5/8	18.0000	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	18	25	11/16" x 7/8"	34	26	12	8	5/16	1279	337	1257	338	13'-5"	
14'-5"	1 5/8	0.781	CP1152 & CP1153	445	9.0000	5/8	18.0000	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	19	25	11/16" x 7/8"	34	26	12	8	5/16	1272	361	1254	362	14'-5"	
15'-5"	1 3/4	0.906	CP1152 & CP1153	445	9.0000	5/8	18.0000		N/A		N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	18	24	11/16" x 7/8"	32	24	11	8	5/16	1347	386	1331	387	15'-5"	
16'-5"	2	1.156	CP1152 & CP1153	445	9.0000	5/8	18.0000		N/A		N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	18	24	11/16" x 7/8"	33	25	11	8	5/16	1327	410	1315	411	16'-5"	
17'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	5/8	6 13/16	16	21	11/16" x 7/8"	29	21	10	7	5/16	1497	435	1485	436	17'-5"	
18'-5"	2	1.156	CP1152 & CP1153	546	8.0000	5/8	18.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	5/8	6 7/8	13	19	11/16" x 7/8"	24	17	9	6	5/16	1667	460	1655	462	18'-5"	
19'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	5/8	6 7/8	12	17	11/16" x 7/8"	21	15	8	5	5/16	1838	486	1826	487	19'-5"	
20'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	16.0000		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	2011	511	1998	513	20'-5"	
21'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	14.0000		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	11	6	N/A	5/16	2184	536	2172	538	21'-5"	
22'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	5/8	6 7/8	9	13	11/16" x 7/8"	15	10	6	N/A	5/16	2360	562	2347	564	22'-5"	
23'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	5/8	6 7/8	9	12	11/16" x 7/8"	13	8	5	N/A	5/16	2538	588	2525	589	23'-5"	
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	18.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	3/4	7 1/2	15	17	7/8" x 1"	35	25	12	8	3/8	2245	610	2233	611	24'-5"	
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000		N/A		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"	32	23	11	8	3/8	2398	636	2387	636	25'-5"	
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000		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	2554	661	2542	662	26'-5"	
27'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000		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"	28	19	10	7	3/8	2712	687	2700	688	27'-5"	
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000		N/A		N/A			N/A			N/A		N/A	N/A			N/A			N/A			8	3/4	7 1/2	12	13	7/8" x 1"	26	18	9	7	3/8	2872	712	2859	713	28'-5"	
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000		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	9	6	3/8	3033	738	3021	739	29'-5"	

CP0020 - 0.0296 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 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.		
4'-5"	333		N/A		25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	32	2 1/2	4	24	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	34	2 1/2	4	34	2 1/2	4	5 3/16	4'-5"	
4'-5"	344	33	3 7/8	6	31	3 5/8	6	30	3 3/4	6	32	3 3/4	5 1/2	36	4 1/4	6 3/4	31	4	6	36	4 1/4	5 1/2	36		36		33	3 7/8	6	28	2 1/2	4	33	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"
5'-5"	333		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	31	2 1/2	4	31	2 1/2	4	5 3/16	5'-5"	
5'-5"	344	30	3 7/8	6	28	3 5/8	6	27	3 3/4	6	29	3 3/4	5 1/2	36	4 1/4	6 3/4	28	4	6	36	4 1/4	5 1/2	36		36		30	3 7/8	6	26	2 1/2	4	29	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"
10'-5"	344	16	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	16	4 1/4	5 1/2	36		34		14	3 7/8	6	N/A		16	3 3/4	5 1/2	11	4 1/4	6 3/4	21	4	6 1/4	5 3/4	10'-5"	
11'-5"	344	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	36		27		12	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	11'-5"	
13'-5"	445	20	5 1/8	7 7/8	18	4 1/2	6	18	4 5/8	7	19	4 1/2	6	20	5	7	N/A			21	5	6 1/4	36		36		20	5 1/8	7 7/8	N/A		20	4 1/2	6	N/A		23	5 1/2	8 1/2	6 13/16	13'-5"		
14'-5"	445	20	5 1/8	7 7/8	18	4 1/2	6	18	4 5/8	7	19	4 1/2	6	20	5	7	N/A			21	5	6 1/4	36		36		20	5 1/8	7 7/8	N/A		20	4 1/2	6	N/A		23	5 1/2	8 1/2	6 13/16	14'-5"		
15'-5"	445	19	5 1/8	7 7/8	17	4 1/2	6	16	4 5/8	7	18	4 1/2	6	20	5	7	N/A			20	5	6 1/4	36		36		19	5 1/8	7 7/8	N/A		19	4 1/2	6	N/A		22	5 1/2	8 1/2	6 13/16	15'-5"		
16'-5"	445	19	5 1/8	7 7/8	17	4 1/2	6	16	4 5/8	7	18	4 1/2	6	20	5	7	N/A			20	5	6 1/4	36		36		19	5 1/8	7 7/8	N/A		19	4 1/2	6	N/A		22	5 1/2	8 1/2	6 13/16	16'-5"		
17'-5"	445	18	5 1/8	7 7/8	11	4 1/2	6	11	4 5/8	7	11	4 1/2	6	18	5	7	N/A			18	5	6 1/4	36		36		17	5 1/8	7 7/8	N/A		11	4 1/2	6	N/A		20	5 1/2	8 1/2	6 13/16	17'-5"		
18'-5"	546	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		36		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	18'-5"		
19'-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		31		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	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			9	5	6 1/4	36		27		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	20'-5"		
21'-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	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	21'-5"		
22'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			32		21		N/A		N/A		N/A		N/A		N/A		6	5 1/2	8 1/2	6 7/8	22'-5"		
23'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			28		18		N/A		N/A		N/A		N/A		N/A		5	5 1/2	8 1/2	6 7/8	23'-5"		
24'-5"	648	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	24'-5"		
25'-5"	648	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		9	6 1/4	10	7 1/2	25'-5"		
26'-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		34		10	5 3/4	8 3/4	N/A		6	5 1/2	8	N/A		8	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			5	6 5/8	7 7/8	36		31		8	5 3/4	8 3/4	N/A		N/A		N/A		7	6 1/4	10	7 1/2	27'-5"			
28'-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	28'-5"			
29'-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	29'-5"				

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Guide Construction								CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 60 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 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 (-)	
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	19	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	134	0	133	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	10	5/8	3 3/8	12	5/8	4 3/8	29	1/2	4 1/4	13	5/8	4 1/2	24	1/2	4 1/4	13	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	135	0	133	4'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	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	15	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	164	0	163	5'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	24	1/2	4 1/4	13	3/4	5 1/2	19	1/2	4 1/4	8	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	165	0	163	5'-5"
11'-5"	1 1/2	0.656	CP1152 & CP1153	DC4	8	1/2	18	5	1/2	3 3/4	N/A			N/A			9	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	7 1/4	11	11	9/16" x 3/4"	11	7	11	7	1/4	1095	373	1069	373	11'-5"
12'-5"	1 5/16	0.469	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	15	20	11/16" x 7/8"	28	20	10	7	5/16	1559	375	1529	377	12'-5"
13'-5"	1 7/16	0.594	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	15	20	11/16" x 7/8"	27	19	9	7	5/16	1607	405	1581	406	13'-5"
14'-5"	1 5/8	0.781	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	15	20	11/16" x 7/8"	27	19	9	7	5/16	1588	434	1567	435	14'-5"
15'-5"	1 3/4	0.906	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	14	19	11/16" x 7/8"	26	18	9	6	5/16	1670	463	1652	465	15'-5"
16'-5"	2	1.156	CP1152 & CP1153	546	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	14	20	11/16" x 7/8"	25	18	9	6	5/16	1639	492	1625	494	16'-5"
17'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	17	11/16" x 7/8"	21	15	8	5	5/16	1839	522	1824	524	17'-5"
18'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	15.0000	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	2038	553	2024	555	18'-5"
19'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	14.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2240	583	2225	585	19'-5"
20'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2443	614	2428	616	20'-5"
21'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	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	2649	645	2634	647	21'-5"
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	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	2367	672	2343	673	22'-5"
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	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	2535	703	2521	703	23'-5"
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2715	733	2701	734	24'-5"
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	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"	25	17	9	6	3/8	2898	764	2883	765	25'-5"
26'-5"	2 9/16	1.719	CP1152 & CP1153	DC6	6.0000	3/4	14.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	11	12	7/8" x 1"	24	16	9	6	3/8	3022	794	3009	795	26'-5"

CP0020 - 0.0296 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.			
4'-5"	333	N/A			22	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	29	2 1/2	4	22	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	31	2 1/2	4	31	2 1/2	4	5 3/16	4'-5"	
4'-5"	344	30	3 7/8	6	28	3 5/8	6	27	3 3/4	6	29	3 3/4	5 1/2	36	4 1/4	6 3/4	28	4	6	36	4 1/4	5 1/2	36	36	30	3 7/8	6	26	2 1/2	4	30	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"	
5'-5"	333	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	19	2 1/4	4	33	3 1/2	4 3/4	36	36	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 3/16	5'-5"	
5'-5"	344	27	3 7/8	6	26	3 5/8	6	25	3 3/4	6	26	3 3/4	5 1/2	34	4 1/4	6 3/4	25	4	6	36	4 1/4	5 1/2	36	36	27	3 7/8	6	23	2 1/2	4	27	3 3/4	5 1/2	35	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"	
11'-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	8	4	6	15	4 1/4	5 1/2	36	16	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	11'-5"	
12'-5"	445	18	5 1/8	7 7/8	11	4 1/2	6	11	4 5/8	7	11	4 1/2	6	18	5	7	N/A			18	5	6 1/4	36	36	17	5 1/8	7 7/8	N/A			11	4 1/2	6	N/A			19	5 1/2	8 1/2	6 13/16	12'-5"	
13'-5"	445	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 13/16	13'-5"	
14'-5"	445	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 13/16	14'-5"	
15'-5"	445	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			13	5	6 1/4	36	35	15	5 1/8	7 7/8	N/A			9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 13/16	15'-5"	
16'-5"	546	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	36	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	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	31	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	6	4 1/2	6	9	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	18'-5"	
19'-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			N/A			N/A			7	5 1/2	8 1/2	6 7/8	19'-5"	
20'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			30	19	N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	20'-5"	
21'-5"	546	5	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			26	17	N/A			N/A			N/A			N/A			N/A			6	7/8	21'-5"
22'-5"	648	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	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			7	6 5/8	7 7/8	36	34	9	5 3/4	8 3/4	N/A			6	5 1/2	8	N/A			8	6 1/4	10	7 1/2	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	30	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	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	25'-5"	
26'-5"	DC6	11	5 3/4	8 3/4	9	5 1/2	8	N/A			10	5 1/2	8	10	6 1/4	8 1/8	N/A			12	6 5/8	7 7/8	36	36	11	5 3/4	8 3/4	10	4 1/2	6	9	5 1/2	8	N/A			10	6 1/4	10	9 1/4	26'-5"	

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CP0020 - 0.0296 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 (-)	
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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	17	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	146	0	144	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	10	1/2	3 3/4	9	5/8	3 3/8	11	5/8	4 3/8	27	1/2	4 1/4	12	5/8	4 1/2	22	1/2	4 1/4	12	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	146	0	144	4'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	178	0	176	5'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4	N/A	N/A	3 3/8	9	5/8	4 3/8	22	1/2	4 1/4	12	3/4	5 1/2	18	1/2	4 1/4	8	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	179	0	176	5'-5"
11'-5"	1 1/2	0.656	CP1152 & CP1153	DC4	8	1/2	18	5	1/2	3 3/4	N/A	N/A	N/A	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	8	1/2	7 1/4	11	11	9/16" x 3/4"	11	7	11	7	1/4	1095	373	1069	373	11'-5"
12'-5"	1 5/16	0.469	CP1152 & CP1153	445	7.0000	5/8	18.0000	N/A	N/A	N/A	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 13/16	14	18	11/16" x 7/8"	25	17	9	6	5/16	1724	407	1692	408	12'-5"						
13'-5"	1 7/16	0.594	CP1152 & CP1153	445	7.0000	5/8	18.0000	N/A	N/A	N/A	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 13/16	13	18	11/16" x 7/8"	24	17	8	6	5/16	1770	439	1743	440	13'-5"						
14'-5"	1 5/8	0.781	CP1152 & CP1153	445	7.0000	5/8	18.0000	N/A	N/A	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 13/16	13	18	11/16" x 7/8"	24	17	9	6	5/16	1746	470	1723	472	14'-5"							
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A	N/A	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"	22	15	8	5	5/16	1832	502	1812	504	15'-5"							
16'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A	N/A	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"	22	15	8	6	5/16	1796	533	1780	535	16'-5"							
17'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	15.0000	N/A	N/A	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	2009	566	1994	568	17'-5"							
18'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	14.0000	N/A	N/A	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	14	11/16" x 7/8"	16	11	6	N/A	5/16	2224	599	2208	601	18'-5"							
19'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2440	632	2425	634	19'-5"							
20'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	8	12	11/16" x 7/8"	12	8	5	N/A	5/16	2659	665	2643	668	20'-5"							
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	14	16	7/8" x 1"	32	23	11	8	3/8	2374	695	2359	696	21'-5"							
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	N/A	N/A	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"	30	21	10	7	3/8	2563	728	2549	729	22'-5"							
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	12	13	7/8" x 1"	27	19	10	7	3/8	2755	761	2740	762	23'-5"							
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	11	12	7/8" x 1"	25	17	9	6	3/8	2950	795	2935	796	24'-5"							

CP0020 - 0.0296 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.			
4'-5"	333	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	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			19	1 7/8	3 1/4	21	2 1/2	4	30	2 1/2	4	30	2 1/2	4	5 3/16	4'-5"		
4'-5"	344	29	3 7/8	6	27	3 5/8	6	26	3 3/4	6	28	3 3/4	5 1/2	36	4 1/4	6 3/4	27	4	6	36	4 1/4	5 1/2	36		36	29	3 7/8	6	25	2 1/2	4	28	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"		
5'-5"	333	N/A			19	2 3/8	4	19	2 3/8	3 3/4	20	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 3/16	5'-5"		
5'-5"	344	26	3 7/8	6	25	3 5/8	6	24	3 3/4	6	25	3 3/4	5 1/2	32	4 1/4	6 3/4	24	4	6	36	4 1/4	5 1/2	36		36	26	3 7/8	6	23	2 1/2	4	26	3 3/4	5 1/2	34	4 1/4	6 3/4	34	4	6 1/4	5 3/4	5'-5"		
11'-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	8	4	6	15	4 1/4	5 1/2	36		16	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	11'-5"		
12'-5"	445	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		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 13/16	12'-5"		
13'-5"	445	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	11	5	7	N/A			12	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 13/16	13'-5"		
14'-5"	445	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	11	5	7	N/A			12	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 13/16	14'-5"		
15'-5"	546	15	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		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	15'-5"		
16'-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	16'-5"		
17'-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		27	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	17'-5"		
18'-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	34		23	7	5 1/8	7 7/8	N/A			N/A			7	5 1/2	8 1/2	6 7/8	18'-5"					
19'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			30		19	N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	19'-5"					
20'-5"	546	5	5 1/8	7 7/8	N/A			N/A			N/A			N/A			N/A				N/A			26		17	N/A			N/A			N/A			N/A			6 7/8	20'-5"				
21'-5"	648	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	21'-5"		
22'-5"	648	9	5 3/4	8 3/4	N/A			N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A		7	6 5/8	7 7/8	36		33	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			N/A			5	5 1/2	8	7	6 1/4	8 1/8	N/A		N/A			36		30	8	5 3/4	8 3/4	N/A			N/A			7	6 1/4	10	7 1/2	23'-5"			
24'-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			6	6 1/4	10	7 1/2	24'-5"			

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CP0020 - 0.0296 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.		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 (+)	
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	14	3/4	5 1/2	16	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	157	0	155	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	25	1/2	4 1/4	14	3/4	5 1/2	20	1/2	4 1/4	9	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	158	0	155	4'-5"
11'-5"	1 3/16	0.344	CP1152 & CP1153	445	7.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 13/16	12	17	11/16" x 7/8"	22	15	8	6	5/16	1893	404	1852	406	11'-5"
12'-5"	1 5/16	0.469	CP1152 & CP1153	445	7.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 13/16	12	17	11/16" x 7/8"	22	15	8	6	5/16	1889	438	1855	440	12'-5"	
13'-5"	1 7/16	0.594	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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"	20	14	7	5	5/16	1934	473	1905	475	13'-5"		
14'-5"	1 5/8	0.781	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	17	11/16" x 7/8"	20	14	7	5	5/16	1904	506	1880	508	14'-5"		
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	7.0000	5/8	16.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	1994	541	1972	543	15'-5"		
16'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	16.0000	N/A	N/A	N/A	N/A	N/A	N/A	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"	20	14	7	5	5/16	1952	574	1936	576	16'-5"			
17'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	14.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	10	15	11/16" x 7/8"	17	11	6	N/A	5/16	2180	610	2163	612	17'-5"			
18'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2409	645	2393	648	18'-5"			
19'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	8	12	11/16" x 7/8"	12	8	5	N/A	5/16	2641	681	2624	683	19'-5"			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	N/A	N/A	N/A	N/A	N/A	N/A	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	23	11	8	3/8	2367	713	2351	714	20'-5"			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	N/A	N/A	N/A	N/A	N/A	N/A	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"	30	21	10	7	3/8	2567	749	2551	750	21'-5"			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	12	13	7/8" x 1"	27	19	9	7	3/8	2770	785	2754	786	22'-5"			
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	N/A	N/A	N/A	N/A	N/A	N/A	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	17	9	6	3/8	2976	820	2960	821	23'-5"			

CP0020 - 0.0296 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.	Max O.C.	Embed	Min. Wall Thick.						
4'-5"	333	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		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 3/16	4'-5"			
4'-5"	344	28	3 7/8	6	26	3 5/8	6	25	3 3/4	6	27	3 3/4	5 1/2	34	4 1/4	6 3/4	26	4	6	36	4 1/4	5 1/2	36		36		28	3 7/8	6	24	2 1/2	4	27	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"			
11'-5"	445	11	5 1/8	7 7/8	8	4 1/2	6	8	4 5/8	7	8	4 1/2	6	10	5	7	N/A			11	5	6 1/4	36		32		N/A			7	4 1/2	6	N/A			10	5 1/2	8 1/2	6 13/16	11'-5"						
12'-5"	445	11	5 1/8	7 7/8	8	4 1/2	6	8	4 5/8	7	8	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			10	5 1/2	8 1/2	6 13/16	12'-5"			
13'-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		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	13'-5"			
14'-5"	546	11	5 1/8	7 7/8	8	4 1/2	6	8	4 5/8	7	8	4 1/2	6	10	5	7	N/A			11	5	6 1/4	36		30		10	5 1/8	7 7/8	N/A			7	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			9	5	6 1/4	36		28		9	5 1/8	7 7/8	N/A			7	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	15'-5"			
16'-5"	546	10	5 1/8	7 7/8	7	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7	N/A			10	5	6 1/4	36		28		9	5 1/8	7 7/8	N/A			7	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	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	35		23		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	17'-5"			
18'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			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"	546	5	5 1/8	7 7/8	N/A			N/A			N/A			N/A			N/A			N/A			26		17		N/A			N/A			N/A			N/A			N/A			6	5 1/2	8 1/2	6 7/8	19'-5"
20'-5"	648	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	20'-5"			
21'-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		33		9	5 3/4	8 3/4	N/A			5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	21'-5"			
22'-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	22'-5"			
23'-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		7	5 3/4	8 3/4	N/A			N/A			N/A			5	6 1/4	10	7 1/2	23'-5"			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

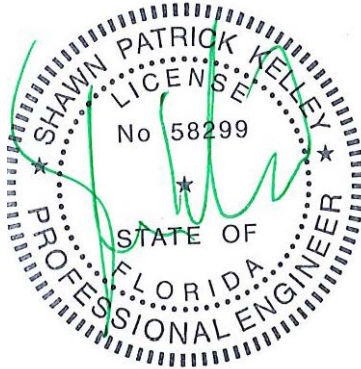
Guide Construction								CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																												Steel (Wall anchors are the same diameter as assembly fasteners)													
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly 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 (-)						
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	179	0	177	4'-5"					
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4				9	5/8	4 3/8	21	1/2	4 1/4	12	3/4	5 1/2	18	1/2	4 1/4	8	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	180	0	177	4'-5"					
10'-5"	1 1/8	0.281	CP1152 & CP1153	546	7.0000	5/8	17.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	11	15	11/16" x 7/8"	18	12	7	5	5/16	2047	423	1995	424	10'-5"					
11'-5"	1 3/16	0.344	CP1152 & CP1153	546	6.0000	5/8	16.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2235	463	2188	465	11'-5"					
12'-5"	1 5/16	0.469	CP1152 & CP1153	546	7.0000	5/8	15.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2219	502	2180	504	12'-5"					
13'-5"	1 7/16	0.594	CP1152 & CP1153	546	6.0000	5/8	15.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2262	541	2228	543	13'-5"					
14'-5"	1 5/8	0.781	CP1152 & CP1153	546	7.0000	5/8	15.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2220	579	2193	582	14'-5"					
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	6.0000	5/8	14.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	10	14	11/16" x 7/8"	15	10	6	N/A	5/16	2317	619	2293	621	15'-5"					
16'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2265	657	2246	659	16'-5"					
17'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	5/8	6 7/8	9	13	11/16" x 7/8"	13	9	5	N/A	5/16	2521	697	2502	700	17'-5"					
18'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000		N/A			N/A			N/A			N/A			N/A			N/A					8	3/4	7 1/2	15	16	7/8" x 1"	34	24	12	8	3/8	2281	735	2263	736	18'-5"					
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000		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	11	7	3/8	2502	775	2485	776	19'-5"					
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000		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	10	7	3/8	2726	816	2709	817	20'-5"					
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000		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	2953	857	2936	858	21'-5"					

CP0020 - 0.0296 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.						
4'-5"	333	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 3/16	4'-5"
4'-5"	344	26	3 7/8	6	24	3 5/8	6	24	3 3/4	6	25	3 3/4	5 1/2	32	4 1/4	6 3/4	24	4	6	36	4 1/4	5 1/2	36		36		26	3 7/8	6	22	2 1/2	4	26	3 3/4	5 1/2	34	4 1/4	6 3/4	34	4	6 1/4	5 3/4	4'-5"
10'-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		29		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	10'-5"
11'-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			7	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		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	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			N/A			7	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	8	5	7	N/A			6	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	14'-5"
15'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			33		22		7	5 1/8	7 7/8	N/A			N/A			6	5 1/2	8 1/2	6 7/8	15'-5"			
16'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			32		22		7	5 1/8	7 7/8	N/A			N/A			7	5 1/2	8 1/2	6 7/8	16'-5"			
17'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			28		18		N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	17'-5"			
18'-5"	648	10	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			11	6 5/8	7 7/8	36		36																		
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			7	6 5/8	7 7/8	36		33																		
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		30																		
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																		

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

Guide Construction								CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 90 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.	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
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	1/2	3 3/4	N/A			9	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	202	0	199	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	5/8	4 1/2	N/A			8	5/8	4 3/8	19	1/2	4 1/4	N/A			16	1/2	4 1/4	N/A			8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	203	0	199	4'-5"
10'-5"	1 1/8	0.281	CP1152 & CP1153	546	6.0000	5/8	15.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	13	11/16" x 7/8"	15	10	6	N/A	5/16	2378	476	2321	478	10'-5"
11'-5"	1 3/16	0.344	CP1152 & CP1153	546	6.0000	5/8	14.0000	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"	13	8	5	N/A	5/16	2577	522	2525	524	11'-5"
12'-5"	1 5/16	0.469	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	12	11/16" x 7/8"	13	8	5	N/A	5/16	2549	565	2506	568	12'-5"
13'-5"	1 7/16	0.594	CP1152 & CP1153	546	6.0000	5/8	13.0000	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"	13	8	5	N/A	5/16	2589	609	2552	612	13'-5"
14'-5"	1 5/8	0.781	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	13	11/16" x 7/8"	13	9	5	N/A	5/16	2536	652	2506	655	14'-5"
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	6.0000	5/8	12.0000	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	2640	696	2613	699	15'-5"
16'-5"	2	1.156	CP1152 & CP1153	648	6.0000	3/4	17.0000	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	2589	741	2559	742	16'-5"
17'-5"	2 1/4	1.406	CP1152 & CP1153	648	6.0000	3/4	16.0000	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	2575	784	2551	785	17'-5"
18'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2589	827	2570	828	18'-5"
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	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	2836	873	2816	874	19'-5"

CP0020 - 0.0296 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.							
4'-5"	333	N/A			18	2 3/8	4	18	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	26	2 1/2	4	5 3/16	4'-5"	
4'-5"	344	24	3 7/8	6	23	3 5/8	6	22	3 3/4	6	23	3 3/4	5 1/2	30	4 1/4	6 3/4	23	4	6	36	4 1/4	5 1/2	36		36		24	3 7/8	6	21	2 1/2	4	24	3 3/4	5 1/2	32	4 1/4	6 3/4	32	4	6 1/4	5 3/4	4'-5"	
10'-5"	546	8	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	10'-5"	
11'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			30		19		N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	11'-5"	
12'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			30		19		N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	12'-5"	
13'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			29		18		N/A			N/A			N/A			N/A			5	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			5	5	7	N/A			N/A			29		19		N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	14'-5"	
15'-5"	546	5	5 1/8	7 7/8	N/A			N/A			N/A			N/A			N/A			N/A			27		17		N/A			N/A			N/A			N/A			N/A			6 7/8	15'-5"	
16'-5"	648	9	5 3/4	8 3/4	N/A			N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			7	6 5/8	7 7/8	36		33		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"	648	9	5 3/4	8 3/4	N/A			N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			6	6 5/8	7 7/8	36		33		9	5 3/4	8 3/4	N/A			5	5 1/2	8	N/A	8	6 1/4	10	7 1/2	17'-5"
18'-5"	648	8	5 3/4	8 3/4	N/A			N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			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	18'-5"
19'-5"	648	7	5 3/4	8 3/4	N/A			N/A			N/A			N/A			6	6 1/4	8 1/8	N/A			N/A			36		28		7	5 3/4	8 3/4	N/A			N/A			6	6 1/4	10	7 1/2	19'-5"	



COOKSON Preferred door solutions.

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

P: 800.390.8590
F: 866.448.6798
E: ADS@COOKSONDOOR.COM

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

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

WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 22/36

DWG NO: ES-16-135-TCCI

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

Guide Construction								CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 100 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.		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 (-)		
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	224	0	221	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	5/8	4 1/2	N/A			8	3/4	5 1/4	17	1/2	4 1/4	N/A			14	1/2	4 1/4	N/A			8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	225	0	221	4'-5"
10'-5"	1 1/8	0.281	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	8	11	11/16" x 7/8"	12	7	5	N/A	5/16	2709	530	2646	533	10'-5"
15'-5"	1 3/4	0.906	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2978	777	2937	778	15'-5"
16'-5"	2	1.156	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2903	824	2870	825	16'-5"
17'-5"	2 1/4	1.406	CP1152 & CP1153	648	6.0000	3/4	14.0000	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"	25	17	9	6	3/8	2884	871	2857	873	17'-5"
18'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	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	2897	919	2876	920	18'-5"

CP0020 - 0.0296 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 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.		
4'-5"	333	N/A			17	2 3/8	4	17	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	14	2 1/4	4	24	3 1/2	4 3/4	32	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 3/16	4'-5"
4'-5"	344	23	3 7/8	6	22	3 5/8	6	21	3 3/4	6	22	3 3/4	5 1/2	29	4 1/4	6 3/4	22	4	6	36	4 1/4	5 1/2	36	36	23	3 7/8	6	20	2 1/2	4	23	3 3/4	5 1/2	30	4 1/4	6 3/4	30	4	6 1/4	5 3/4	4'-5"
10'-5"	546	5	5 1/8	7 7/8	N/A			N/A			N/A			N/A			N/A			N/A			28	18	N/A			N/A			N/A			N/A			N/A			6 7/8	10'-5"
15'-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	15'-5"	
16'-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	16'-5"	
17'-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	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	27	7	5 3/4	8 3/4	N/A			N/A			N/A			6 6 1/4	10	7 1/2	18'-5"	



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

WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 23/36

DWG NO: ES-16-135-TCCI

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

CP0020 - 0.0405 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 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.							
4'-5"	333		N/A		36	2 3/8	4	36	2 3/8	3 3/4	36	2 1/2	4	36	2 1/2	4	36	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		34	1 7/8	3 1/4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	4'-5"				
4'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"	4'-5"			
5'-5"	333		N/A		35	2 3/8	4	34	2 3/8	3 3/4	36	2 1/2	4	36	2 1/2	4	34	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		31	1 7/8	3 1/4	35	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	5'-5"				
5'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"	5'-5"			
6'-5"	333		N/A		33	2 3/8	4	31	2 3/8	3 3/4	33	2 1/2	4	36	2 1/2	4	31	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		28	1 7/8	3 1/4	32	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	6'-5"				
6'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	6'-5"	6'-5"			
7'-5"	333		N/A		30	2 3/8	4	29	2 3/8	3 3/4	30	2 1/2	4	36	2 1/2	4	29	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		26	1 7/8	3 1/4	30	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	7'-5"				
7'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	35	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	7'-5"	7'-5"			
8'-5"	333		N/A		28	2 3/8	4	27	2 3/8	3 3/4	29	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		25	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	8'-5"				
8'-5"	344	36	3 7/8	6	36	3 5/8	6	35	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	35	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	33	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	8'-5"	8'-5"			
9'-5"	333		N/A		27	2 3/8	4	26	2 3/8	3 3/4	27	2 1/2	4	35	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	26	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	9'-5"				
9'-5"	344	36	3 7/8	6	34	3 5/8	6	33	3 3/4	6	35	3 3/4	5 1/2	36	4 1/4	6 3/4	34	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	31	2 1/2	4	35	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	9'-5"	9'-5"			
10'-5"	333		N/A		25	2 3/8	4	24	2 3/8	3 3/4	26	2 1/2	4	33	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 3/16	10'-5"				
10'-5"	344	34	3 7/8	6	32	3 5/8	6	31	3 3/4	6	33	3 3/4	5 1/2	36	4 1/4	6 3/4	32	4	6	36	4 1/4	5 1/2	36		36	34	3 7/8	6	30	2 1/2	4	34	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	10'-5"	10'-5"			
11'-5"	333		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 3/16	11'-5"				
11'-5"	344	32	3 7/8	6	31	3 5/8	6	30	3 3/4	6	31	3 3/4	5 1/2	36	4 1/4	6 3/4	30	4	6	36	4 1/4	5 1/2	36		36	32	3 7/8	6	28	2 1/2	4	32	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	11'-5"	11'-5"			
12'-5"	333		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		24	1 7/8	3 1/4	29	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	12'-5"				
12'-5"	344	36	3 7/8	6	36	3 5/8	6	35	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	33	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	12'-5"	12'-5"			
13'-5"	333		N/A		27	2 3/8	4	27	2 3/8	3 3/4	28	2 1/2	4	34	2 1/2	4	27	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		21	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	13'-5"				
13'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	13'-5"	13'-5"			
14'-5"	333		N/A		20	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	26	2 1/2	4	20	2 1/4	4	29	3 1/2	4 3/4	36		36		N/A		15	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	29	2 1/2	4	5 3/16	14'-5"				
14'-5"	344	35	3 7/8	6	32	3 5/8	6	30	3 3/4	6	34	3 3/4	5 1/2	36	4 1/4	6 3/4	32	4	6	36	4 1/4	5 1/2	36		36	35	3 7/8	6	26	2 1/2	4	34	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	14'-5"	14'-5"			
15'-5"	333		N/A		16	2 3/8	4	16	2 3/8	3 3/4	17	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	23	2 1/2	4	5 3/16	15'-5"				
15'-5"	344	29	3 7/8	6	26	3 5/8	6	25	3 3/4	6	28	3 3/4	5 1/2	34	4 1/4	6 3/4	27	4	6	36	4 1/4	5 1/2	36		36	29	3 7/8	6	21	2 1/2	4	29	3 3/4	5 1/2	32	4 1/4	6 3/4	36	4	6 1/4	5 3/4	15'-5"	15'-5"			
16'-5"	333		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		36		N/A		8	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/16	16'-5"				
16'-5"	344	26	3 7/8	6	23	3 5/8	6	21	3 3/4	6	25	3 3/4	5 1/2	29	4 1/4	6 3/4	24	4	6	33	4 1/4	5 1/2	36		36	26	3 7/8	6	18	2 1/2	4	25	3 3/4	5 1/2	28	4 1/4	6 3/4	33	4	6 1/4	5 3/4	16'-5"	16'-5"			
17'-5"	334		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	18	2 1/2	4	18	2 1/2	4	5 7/16	17'-5"				
17'-5"	344	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	28	4 1/4	5 1/2	36		36	23	3 7/8	6	14	2 1/2	4	23	3 3/4	5 1/2	24	4 1/4	6 3/4	29	4	6 1/4	5 3/4	17'-5"	17'-5"			
18'-5"	334		N/A		10	2 3/8	4	5	2 3/8	4	13	2 1																																		

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

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.	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 (-)
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	12	3/8	1 7/8	13	3/8	2 3/8	13	3/8	2 5/8	9	3/8	1 5/8	14	3/8	2 3/4	10	3/8	2	13	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	67	0	66	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	22	1/2	3 3/4	15	1/2	2 1/2	15	1/2	3 1/2	36	1/2	4 1/4	19	1/2	3 1/2	36	1/2	4 1/4	18	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	68	0	66	4'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	1 7/8	11	3/8	2 3/8	10	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	82	0	81	5'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	18	1/2	3 3/4	12	1/2	2 1/2	12	1/2	3 1/2	36	1/2	4 1/4	16	1/2	3 1/2	36	1/2	4 1/4	15	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	83	0	81	5'-5"
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	3/8	1 7/8	9	3/8	2 3/8	9	3/8	2 5/8	26	3/8	3 1/4	14	1/2	3 1/2	26	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	97	0	96	6'-5"
6'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	15	1/2	3 3/4	10	1/2	2 1/2	10	1/2	3 1/2	36	1/2	4 1/4	13	1/2	3 1/2	33	1/2	4 1/4	13	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	98	0	96	6'-5"
7'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	13	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	23	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	112	0	111	7'-5"
7'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	13	1/2	3 3/4	9	1/2	2 1/2	9	1/2	3 1/2	35	1/2	4 1/4	15	5/8	4 1/2	29	1/2	4 1/4	15	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	113	0	111	7'-5"
8'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	20	3/8	3 1/4	14	5/8	4 1/2	19	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	127	0	126	8'-5"
8'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	10	5/8	3 3/8	13	5/8	4 3/8	31	1/2	4 1/4	13	5/8	4 1/2	25	1/2	4 1/4	13	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	128	0	126	8'-5"
9'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	10	3/8	3	10	5/8	3 3/8	12	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	142	0	141	9'-5"
9'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	10	1/2	3 3/4	9	5/8	3 3/8	11	5/8	4 3/8	27	1/2	4 1/4	12	5/8	4 1/2	23	1/2	4 1/4	12	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	143	0	141	9'-5"
10'-5"	1 1/8	0.281	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	11	3/8	2 3/8	11	3/8	2 5/8	23	3/8	3 1/4	12	3/8	2 3/4	22	3/8	3 1/4	10	3/8	2 3/4	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	25	21	3/16	179	157	152	157	10'-5"
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	12.0000	1/2	18.0000	18	1/2	3 3/4	14	1/2	2 1/2	15	1/2	3 1/2	36	1/2	4 1/4	19	1/2	3 1/2	36	1/2	4 1/4	16	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	28	1/4	184	158	152	157	10'-5"
11'-5"	1 1/4	0.406	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	18	3/8	3 1/4	15	5/8	4 1/2	18	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	17	14	3/16	266	172	246	172	11'-5"
11'-5"	1 1/4	0.406	CP1152 & CP1153	344	12.0000	1/2	18.0000	14	1/2	3 3/4	11	1/2	2 1/2	11	1/2	3 1/2	34	1/2	4 1/4	14	1/2	3 1/2	32	1/2	4 1/4	12	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	28	20	1/4	270	173	246	172	11'-5"
12'-5"	1 3/8	0.531	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	1/2	3 3/4	9	5/8	3 3/8	11	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	N/A	N/A	8	3/8	5 3/16	34	36	7/16" x 5/8"	34	26	12	10	3/16	359	187	342	187	12'-5"
12'-5"	1 3/8	0.531	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	8	1/2	2 1/2	8	1/2	3 1/2	27	1/2	4 1/4	14	5/8	4 1/2	26	1/2	4 1/4	10	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	21	15	1/4	362	187	342	187	12'-5"
13'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	17.0000	8	1/2	3 3/4	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 3/16	27	36	7/16" x 5/8"	27	21	10	8	3/16	446	202	433	202	13'-5"
13'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	1/2	3 3/4	9	5/8	3 3/8	10	5/8	4 3/8	23	1/2	4 1/4	14	3/4	5 1/2	20	1/2	4 1/4	N/A	N/A	N/A	8	1/2	5 3/4	35	36	9/16" x 3/4"	36	36	17	12	1/4	449	202	433	202	13'-5"
14'-5"	1 1/2	0.656	CP1152 & CP1153	334	12.0000	3/8	13.0000	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 7/16	21	31	7/16" x 5/8"	19	13	7	6	3/16	615	217	602	217	14'-5"
14'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	17	1/2	4 1/4	N/A	N/A	N/A	14	1/2	4 1/4	N/A	N/A	N/A	8	1/2	5 3/4	26	36	9/16" x 3/4"	35	27	12	9	1/4	617	217	602	217	14'-5"
15'-5"	1 1/2	0.656	CP1152 & CP1153	334	11.0000	3/8	11.0000	12	3/4	5 1/2	N/A	N/A	N/A	10	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 7/16	16	25	7/16" x 5/8"	14	9	5	N/A	3/16	775	232	763	232	15'-5"
15'-5"	1 1/2	0.656	CP1152 & CP1153	344	11.0000	1/2	18.0000	13	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	1/2	5 3/4	20	33	9/16" x 3/4"	28	22	10	7	1/4	777	232	763	232	15'-5"
16'-5"	1 1/2	0.656	CP1152 & CP1153	344	10.0000	1/2	18.0000	11	3/4	5 1/2	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	8	1/2	5 3/4	17	28	9/16" x 3/4"	23	17	8	6	1/4	931	247	918	248	16'-5"
17'-5																																												

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CP0020 - 0.0405 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.				
4'-5"	333		N/A		32	2 3/8	4	31	2 3/8	3 3/4	32	2 1/2	4	36	2 1/2	4	31	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		28	1 7/8	3 1/4	31	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	4'-5"	
4'-5"	344	36	3 7/8	6	36	3 5/8	6	36	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	36	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"	
5'-5"	333		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 3/16	5'-5"	
5'-5"	344	36	3 7/8	6	36	3 5/8	6	35	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	33	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"	
6'-5"	333		N/A		26	2 3/8	4	25	2 3/8	3 3/4	27	2 1/2	4	35	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		23	1 7/8	3 1/4	26	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/16	6'-5"	
6'-5"	344	35	3 7/8	6	33	3 5/8	6	32	3 3/4	6	34	3 3/4	5 1/2	36	4 1/4	6 3/4	33	4	6	36	4 1/4	5 1/2	36		36	35	3 7/8	6	31	2 1/2	4	35	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	6'-5"	
7'-5"	333		N/A		25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	32	2 1/2	4	24	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	34	2 1/2	4	34	2 1/2	4	5 3/16	7'-5"	
7'-5"	344	33	3 7/8	6	31	3 5/8	6	30	3 3/4	6	32	3 3/4	5 1/2	36	4 1/4	6 3/4	31	4	6	36	4 1/4	5 1/2	36		36	33	3 7/8	6	29	2 1/2	4	33	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	7'-5"	
8'-5"	333		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 3/16	8'-5"	
8'-5"	344	31	3 7/8	6	29	3 5/8	6	28	3 3/4	6	30	3 3/4	5 1/2	36	4 1/4	6 3/4	29	4	6	36	4 1/4	5 1/2	36		36	31	3 7/8	6	27	2 1/2	4	31	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	8'-5"	
9'-5"	333		N/A		22	2 3/8	4	21	2 3/8	3 3/4	22	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		19	1 7/8	3 1/4	21	2 1/2	4	30	2 1/2	4	30	2 1/2	4	5 3/16	9'-5"	
9'-5"	344	29	3 7/8	6	28	3 5/8	6	27	3 3/4	6	28	3 3/4	5 1/2	36	4 1/4	6 3/4	27	4	6	36	4 1/4	5 1/2	36		36	29	3 7/8	6	25	2 1/2	4	29	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	9'-5"	
10'-5"	333		N/A		22	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	29	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	32	2 1/2	4	32	2 1/2	4	5 3/16	10'-5"	
10'-5"	344	36	3 7/8	6	35	3 5/8	6	33	3 3/4	6	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6	36	4 1/4	5 1/2	36		36	36	3 7/8	6	29	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	10'-5"	
11'-5"	333		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 3/16	11'-5"	
11'-5"	344	33	3 7/8	6	30	3 5/8	6	29	3 3/4	6	32	3 3/4	5 1/2	36	4 1/4	6 3/4	31	4	6	36	4 1/4	5 1/2	36		36	34	3 7/8	6	25	2 1/2	4	33	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	11'-5"	
12'-5"	333		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 3/16	12'-5"	
12'-5"	344	30	3 7/8	6	27	3 5/8	6	25	3 3/4	6	28	3 3/4	5 1/2	34	4 1/4	6 3/4	27	4	6	36	4 1/4	5 1/2	36		36	30	3 7/8	6	22	2 1/2	4	29	3 3/4	5 1/2	33	4 1/4	6 3/4	36	4	6 1/4	5 3/4	12'-5"	
13'-5"	333		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		32		N/A		9	1 7/8	3 1/4	16	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/16	13'-5"	
13'-5"	344	27	3 7/8	6	24	3 5/8	6	22	3 3/4	6	26	3 3/4	5 1/2	31	4 1/4	6 3/4	25	4	6	36	4 1/4	5 1/2	36		36	27	3 7/8	6	19	2 1/2	4	26	3 3/4	5 1/2	29	4 1/4	6 3/4	34	4	6 1/4	5 3/4	13'-5"	
14'-5"	334		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		24		N/A		6	1 7/8	3 1/4	14	2 1/2	4	17	2 1/2	4	18	2 1/2	4	5 7/16	14'-5"	
14'-5"	344	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	27	4 1/4	5 1/2	36		36	23	3 7/8	6	14	2 1/2	4	22	3 3/4	5 1/2	24	4 1/4	6 3/4	29	4	6 1/4	5 3/4	14'-5"	
15'-5"	334		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	26		17		N/A		11	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 7/16	15'-5"				
15'-5"	344	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	18	4	6	22	4 1/4	5 1/2	36		36	20	3 7/8	6		N/A		20	3 3/4	5 1/2	20	4 1/4	6 3/4	25	4	6 1/4	5 3/4	15'-5"	
16'-5"	344	18	3 7/8	6	12	3 5/8	6	14	3 3/4	6	9	3 3/4	5 1/2	21	4 1/4	6 3/4	15	4	6	19	4 1/4	5 1/2	36		36	17	3 7/8	6		N/A		18	3 3/4	5 1/2	15	4 1/4	6 3/4	23	4	6 1/4	5 3/4	16'-5"	
17'-5"	344	16	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	16	4 1/4	5 1/2	36		31		14	3 7/8	6		N/A		15	3 3/4	5 1/2	11	4 1/4	6 3/4	21	4	6 1/4	5 3/4	17'-5"
18'-5"	445	25	5 1/8	7 7/8	23	4 1/2	6	23	4 5/8	7	24	4 1/2	6	26	5	7		N/A		31	5	6 1/4	36		36	25	5 1/8	7 7/8		N/A		25	4 1/2	6		N/A		30	5 1/2	8 1/2	6 13/16	18'-5"	
19'-5"	445	24	5 1/8	7 7/8	21	4 1/2	6	21	4 5/8	7	22	4 1/2	6	24	5	7		N/A		28	5	6 1/4	36		36	23	5 1/8	7 7/8		N/A		23	4 1/2	6		N/A		28	5 1/2	8 1/2	6 13/16	19'-5"	
20'-5"	445	22	5 1/8	7 7/8	20	4 1/2	6	20	4 5/8	7	21	4 1/2	6	23	5	7		N/A		25	5	6 1/4	36		36	22	5 1/8	7 7/8		N/A		22	4 1/2	6		N/A		26	5 1/2	8 1/2	6 13/16	20'-5"	
21'-5"	445	21	5 1/8	7 7/8	19	4 1/2	6																																				

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Guide Construction								CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																				Steel (Wall anchors are the same diameter as assembly fasteners)																
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T2Z 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 (-)
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	28	3/8	3 1/4	15	1/2	3 1/2	28	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	90	0	88	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	16	1/2	3 3/4	11	1/2	2 1/2	11	1/2	3 1/2	36	1/2	4 1/4	14	1/2	3 1/2	36	1/2	4 1/4	14	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	90	0	88	4'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	13	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	23	3/8	3 1/4	12	1/2	3 1/2	23	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	110	0	108	5'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	13	1/2	3 3/4	9	1/2	2 1/2	9	1/2	3 1/2	36	1/2	4 1/4	12	1/2	3 1/2	29	1/2	4 1/4	11	1/2	3 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	110	0	108	5'-5"
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	19	3/8	3 1/4	14	5/8	4 1/2	19	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	130	0	128	6'-5"
6'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	10	5/8	3 3/8	13	5/8	4 3/8	30	1/2	4 1/4	13	5/8	4 1/2	25	1/2	4 1/4	13	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	130	0	128	6'-5"
7'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	150	0	148	7'-5"
7'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	10	1/2	3 3/4	9	5/8	3 3/8	11	5/8	4 3/8	26	1/2	4 1/4	15	3/4	5 1/2	21	1/2	4 1/4	9	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	150	0	148	7'-5"
10'-5"	1 1/8	0.281	CP1152 & CP1153	333	12.0000	3/8	17.0000	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 3/16	24	35	7/16" x 5/8"	24	17	8	7	3/16	507	210	476	209	10'-5"	
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4	8	5/8	3 3/8	9	5/8	4 3/8	19	1/2	4 1/4	13	3/4	5 1/2	16	1/2	4 1/4	N/A		8	1/2	5 3/4	31	36	9/16" x 3/4"	36	33	15	11	1/4	513	210	476	209	10'-5"	
11'-5"	1 1/4	0.406	CP1152 & CP1153	333	12.0000	3/8	15.0000	8	5/8	4 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	3/8	5 3/16	21	32	7/16" x 5/8"	21	14	7	6	3/16	577	230	553	230	11'-5"	
11'-5"	1 1/4	0.406	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	5/8	4 1/2	N/A			8	5/8	4 3/8	17	1/2	4 1/4	N/A			14	1/2	4 1/4	N/A		8	1/2	5 3/4	27	36	9/16" x 3/4"	36	29	13	9	1/4	582	230	553	230	11'-5"	
12'-5"	1 3/8	0.531	CP1152 & CP1153	334	12.0000	3/8	12.0000	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 7/16	19	29	7/16" x 5/8"	17	12	6	5	3/16	665	250	646	250	12'-5"	
12'-5"	1 3/8	0.531	CP1152 & CP1153	344	12.0000	1/2	18.0000	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	5 3/4	23	36	9/16" x 3/4"	32	25	11	8	1/4	669	250	646	250	12'-5"	
13'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	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	1/2	5 3/4	21	33	9/16" x 3/4"	28	22	10	7	1/4	758	270	739	269	13'-5"	
14'-5"	1 1/2	0.656	CP1152 & CP1153	344	10.0000	1/2	18.0000	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	5 3/4	16	26	9/16" x 3/4"	23	16	8	5	1/4	961	290	943	290	14'-5"	
15'-5"	1 3/4	0.906	CP1152 & CP1153	445	10.0000	5/8	18.0000	11	3/4	5 1/2	N/A			N/A			9	5/8	5	N/A		N/A		N/A		8	5/8	6 13/16	26	35	11/16" x 7/8"	36	36	17	12	5/16	928	308	914	309	15'-5"			
16'-5"	2	1.156	CP1152 & CP1153	445	10.0000	5/8	18.0000	11	3/4	5 1/2	N/A			N/A			9	5/8	5	N/A		N/A		N/A		8	5/8	6 13/16	26	35	11/16" x 7/8"	36	36	16	12	5/16	930	328	919	328	16'-5"			
17'-5"	2	1.156	CP1152 & CP1153	445	10.0000	5/8	18.0000	9	3/4	5 1/2	N/A			N/A			10	3/4	6 1/4	N/A		N/A		N/A		8	5/8	6 13/16	22	30	11/16" x 7/8"	36	31	14	10	5/16	1081	348	1070	349	17'-5"			
18'-5"	2	1.156	CP1152 & CP1153	445	9.0000	5/8	18.0000	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A		N/A		N/A		8	5/8	6 13/16	19	26	11/16" x 7/8"	35	27	12	9	5/16	1230	368	1219	369	18'-5"			
19'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			8	3/4	6 1/4	N/A		N/A		N/A		8	5/8	6 13/16	17	23	11/16" x 7/8"	31	24	11	8	5/16	1377	388	1366	389	19'-5"			
20'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 13/16	15	21	11/16" x 7/8"	28	21	10	7	5/16	1524	408	1513	409	20'-5"				
21'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 13/16	14	19	11/16" x 7/8"	26	18	9	6	5/16	1671	428	1660	429	21'-5"				
22'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000	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"	22	15	8	5	5/16	1818	448	1807	450	22'-5"				
23'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	16.0000	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	1966	469	1956	470	23'-5"				
24'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	15.0000	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"	18	12	7	5	5/16	2116	489	2105	490	24'-5"				
25'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	14.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	10	14	11/16" x 7/8"	16	10	6	N/A		5/16	2266	509	2255	511	25'-5"			
26'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A		5/16	2419	530	2408	531	26'-5"			
27'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	9	12	11/16" x 7/8"	13	8	5	N/A		5/16	2572	550	2561	552	27'-5"			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	18.0000	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	2254	568	2244	569	28'-5"				
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	18.0000	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	23	11	8	3/8	2387	589	2377	589	29'-5"				
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	3/4	7 1/2	13	15	7/8" x 1"	31	22	11	7	3/8	2521	609	2510	609	30'-5"				
31'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	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	2656	629	2646	630	31'-5"				
32'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	18	10	7	3/8	2793	650	2783	650	32'-5"				
33'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2932	670	2921	671	33'-5"				
34'-5"	2 1/2	1.656	CP1152 & CP1153	648	5.0000	3/4	14.0000	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	3/4	7																	

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CP0020 - 0.0405 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.									
4'-5"	333	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		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 3/16	4'-5"			
4'-5"	344	36	3 7/8	6	35	3 5/8	6	34	3 3/4	6	35	3 3/4	5 1/2	36	4 1/4	6 3/4	34	4	6	36	4 1/4	5 1/2	36		36		36	3 7/8	6	32	2 1/2	4	36	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"			
5'-5"	333	N/A			25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	32	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4	36		36		36		N/A	22	1 7/8	3 1/4	25	2 1/2	4	34	2 1/2	4	35	2 1/2	4	5 3/16	5'-5"			
5'-5"	344	33	3 7/8	6	31	3 5/8	6	30	3 3/4	6	32	3 3/4	5 1/2	36	4 1/4	6 3/4	31	4	6	36	4 1/4	5 1/2	36		36		33	3 7/8	6	29	2 1/2	4	33	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"			
6'-5"	333	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		36		N/A	20	1 7/8	3 1/4	23	2 1/2	4	31	2 1/2	4	32	2 1/2	4	5 3/16	6'-5"			
6'-5"	344	30	3 7/8	6	29	3 5/8	6	28	3 3/4	6	29	3 3/4	5 1/2	36	4 1/4	6 3/4	29	4	6	36	4 1/4	5 1/2	36		36		30	3 7/8	6	26	2 1/2	4	30	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	6'-5"			
7'-5"	333	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		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 3/16	7'-5"			
7'-5"	344	28	3 7/8	6	27	3 5/8	6	26	3 3/4	6	27	3 3/4	5 1/2	35	4 1/4	6 3/4	27	4	6	36	4 1/4	5 1/2	36		36		28	3 7/8	6	25	2 1/2	4	28	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	7'-5"			
10'-5"	333	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		30		36		N/A	6	1 7/8	3 1/4	14	2 1/2	4	18	2 1/2	4	19	2 1/2	4	5 3/16	10'-5"			
10'-5"	344	24	3 7/8	6	22	3 5/8	6	20	3 3/4	6	23	3 3/4	5 1/2	28	4 1/4	6 3/4	22	4	6	31	4 1/4	5 1/2	36		36		24	3 7/8	6	17	2 1/2	4	24	3 3/4	5 1/2	26	4 1/4	6 3/4	31	4	6 1/4	5 3/4	10'-5"			
11'-5"	333	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	34		24		36		N/A	13	2 1/2	4	5	2 1/2	4	16	2 1/2	4	4	5 3/16	11'-5"					
11'-5"	344	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	28	4 1/4	5 1/2	36		36		23	3 7/8	6	14	2 1/2	4	23	3 3/4	5 1/2	24	4 1/4	6 3/4	29	4	6 1/4	5 3/4	11'-5"			
12'-5"	334	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	31		22		36		N/A	13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 7/16	12'-5"						
12'-5"	344	21	3 7/8	6	19	3 5/8	6	18	3 3/4	6	20	3 3/4	5 1/2	25	4 1/4	6 3/4	20	4	6	25	4 1/4	5 1/2	36		36		21	3 7/8	6	11	2 1/2	4	21	3 3/4	5 1/2	22	4 1/4	6 3/4	27	4	6 1/4	5 3/4	12'-5"			
13'-5"	344	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	18	4	6	22	4 1/4	5 1/2	36		36		19	3 7/8	6		N/A	19	3 3/4	5 1/2	20	4 1/4	6 3/4	25	4	6 1/4	5 3/4	13'-5"				
14'-5"	344	17	3 7/8	6	9	3 5/8	6	13	3 3/4	6	9	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	18	4 1/4	5 1/2	36		36		16	3 7/8	6		N/A	17	3 3/4	5 1/2	13	4 1/4	6 3/4	22	4	6 1/4	5 3/4	14'-5"				
15'-5"	445	24	5 1/8	7 7/8	22	4 1/2	6	22	4 5/8	7	23	4 1/2	6	25	5	7		N/A		29	5	6 1/4	36		36		23	5 1/8	7 7/8		N/A	24	4 1/2	6		N/A	29	5 1/2	8 1/2	6 13/16	15'-5"					
16'-5"	445	24	5 1/8	7 7/8	22	4 1/2	6	21	4 5/8	7	23	4 1/2	6	24	5	7		N/A		28	5	6 1/4	36		36		23	5 1/8	7 7/8		N/A	23	4 1/2	6		N/A	28	5 1/2	8 1/2	6 13/16	16'-5"					
17'-5"	445	22	5 1/8	7 7/8	20	4 1/2	6	20	4 5/8	7	21	4 1/2	6	22	5	7		N/A		25	5	6 1/4	36		36		21	5 1/8	7 7/8		N/A	21	4 1/2	6		N/A	26	5 1/2	8 1/2	6 13/16	17'-5"					
18'-5"	445	20	5 1/8	7 7/8	18	4 1/2	6	18	4 5/8	7	19	4 1/2	6	21	5	7		N/A		22	5	6 1/4	36		36		20	5 1/8	7 7/8		N/A	20	4 1/2	6		N/A	24	5 1/2	8 1/2	6 13/16	18'-5"					
19'-5"	445	19	5 1/8	7 7/8	17	4 1/2	6	15	4 5/8	7	18	4 1/2	6	19	5	7		N/A		20	5	6 1/4	36		36		18	5 1/8	7 7/8		N/A	18	4 1/2	6		N/A	21	5 1/2	8 1/2	6 13/16	19'-5"					
20'-5"	445	18	5 1/8	7 7/8	11	4 1/2	6	11	4 5/8	7	11	4 1/2	6	18	5	7		N/A		18	5	6 1/4	36		36		17	5 1/8	7 7/8		N/A	11	4 1/2	6		N/A	19	5 1/2	8 1/2	6 13/16	20'-5"					
21'-5"	445	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		35		15	5 1/8	7 7/8		N/A	9	4 1/2	6		N/A	10	5 1/2	8 1/2	6 13/16	21'-5"					
22'-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		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	22'-5"					
23'-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		10	5	6 1/4	36		28		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	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		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	24'-5"					
25'-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	34		23		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"	546	7	5 1/8	7 7/8		N/A			N/A			N/A		7	5	7		N/A			N/A		31		20			N/A			N/A		N/A		N/A		N/A	6	5 1/2	8 1/2	6 7/8	26'-5"				
27'-5"	546	6	5 1/8	7 7/8		N/A			N/A			N/A		5	5	7		N/A			N/A		28		18			N/A			N/A		N/A		N/A		N/A	5	5 1/2	8 1/2	6 7/8	27'-5"				
28'-5"	648	11	5 3/4	8 3/4	7	5 1/2	8		N/A		9	5 1/2	8	11	6 1/4	8 1/8		N/A		12	6 5/8	7 7/8	36		36		12	5 3/4	8 3/4		N/A	8	5 1/2	8		N/A	11	6 1/4	10	7 1/2	28'-5"					
29'-5"	648	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	29'-5"					
30'-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		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	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		32		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	8	5 3/4	8 3/4		N/A			N/A		5																																			

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Guide Construction								CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																Steel (Wall anchors are the same diameter as assembly fasteners)																				
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Filled CMU																Steel (Wall anchors are the same diameter as assembly fasteners)												D.B.G. Up To								
								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				
								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 (-)	
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	19	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 3/16	36	36	7/16" x 5/8"	36	36	3/16	0	134	0	133	4'-5"		
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	11	1/2	3 3/4	10	5/8	3 3/8	12	5/8	4 3/8	29	1/2	4 1/4	13	5/8	4 1/2	24	1/2	4 1/4	13	5/8	4 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	1/4	0	135	0	133	4'-5"		
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	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	15	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	3/16	0	164	0	163	5'-5"		
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	24	1/2	4 1/4	13	3/4	5 1/2	19	1/2	4 1/4	8	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	1/4	0	165	0	163	5'-5"		
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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	N/A			8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	3/16	0	194	0	193	6'-5"		
6'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	10	5/8	4 1/2	N/A			8	5/8	4 3/8	20	1/2	4 1/4	N/A			16	1/2	4 1/4	N/A			8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	1/4	0	195	0	193	6'-5"		
10'-5"	1 1/8	0.281	CP1152 & CP1153	344	9.0000	1/2	18.0000	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	5 3/4	13	21	9/16" x 3/4"	18	12	6	N/A	1169	316	1124	316	10'-5"	
11'-5"	1 1/2	0.656	CP1152 & CP1153	DC4	8	1/2	18	5	1/2	3 3/4	N/A			N/A			9	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	7 1/4	11	11	9/16" x 3/4"	11	7	11	1095	373	1069	373	11'-5"		
12'-5"	1 3/8	0.531	CP1152 & CP1153	445	9.0000	5/8	18.0000	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	5/8	6 13/16	18	24	11/16" x 7/8"	34	26	12	8	5/16	1287	374	1258	375	12'-5"
13'-5"	1 1/2	0.656	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	17	23	11/16" x 7/8"	31	24	11	8	5/16	1381	404	1356	405	13'-5"
14'-5"	1 5/8	0.781	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	16	22	11/16" x 7/8"	29	22	10	7	5/16	1478	433	1456	435	14'-5"
15'-5"	1 3/4	0.906	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	15	20	11/16" x 7/8"	27	20	10	7	5/16	1575	463	1555	464	15'-5"
16'-5"	2	1.156	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 13/16	15	21	11/16" x 7/8"	28	20	10	7	5/16	1556	492	1541	493	16'-5"
17'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	13	18	11/16" x 7/8"	23	16	8	6	5/16	1764	522	1749	523	17'-5"
18'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	16.0000	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	1972	552	1957	554	18'-5"
19'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	14.0000	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	11	6	N/A	5/16	2180	582	2165	584	19'-5"
20'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	13	11/16" x 7/8"	15	10	6	N/A	5/16	2389	613	2374	615	20'-5"
21'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	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"	13	8	5	N/A	5/16	2600	643	2585	645	21'-5"
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	18.0000	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	2312	671	2298	672	22'-5"
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	15	7/8" x 1"	31	22	11	8	3/8	2494	702	2480	702	23'-5"
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2678	732	2663	733	24'-5"
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2863	762	2849	763	25'-5"
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	5.0000	3/4	14.0000	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	9	6	3/8	3051	793	3037	794	26'-5"

CP0020 - 0.0405 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.					
4'-5"	333		N/A		22	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	29	2 1/2	4	22	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	31	2 1/2	4	31	2 1/2	4	5 3/16	4'-5"		
4'-5"	344	30	3 7/8	6	28	3 5/8	6	27	3 3/4	6	29	3 3/4	5 1/2	36	4 1/4	6 3/4	28	4	6	36	4 1/4	5 1/2	36		36		30	3 7/8	6	26	2 1/2	4	30	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"	
5'-5"	333		N/A		20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	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 3/16	5'-5"		
5'-5"	344	27	3 7/8	6	26	3 5/8	6	25	3 3/4	6	26	3 3/4	5 1/2	34	4 1/4	6 3/4	25	4	6	36	4 1/4	5 1/2	36		36		27	3 7/8	6	23	2 1/2	4	27	3 3/4	5 1/2	35	4 1/4	6 3/4	36	4	6 1/4	5 3/4	5'-5"	
6'-5"	333		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		28		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 3/16	6'-5"		
6'-5"	344	25	3 7/8	6	24	3 5/8	6	23	3 3/4	6	24	3 3/4	5 1/2	31	4 1/4	6 3/4	23	4	6	36	4 1/4	5 1/2	36		36		25	3 7/8	6	22	2 1/2	4	25	3 3/4	5 1/2	33	4 1/4	6 3/4	33	4	6 1/4	5 3/4	6'-5"	
10'-5"	344	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	36		29		12	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	10'-5"	
11'-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	8	4	6	15	4 1/4	5 1/2	36		26		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	11'-5"	
12'-5"	445	20	5 1/8	7 7/8	18	4 1/2	6	18	4 5/8	7	19	4 1/2	6	20	5	7		N/A		21	5	6 1/4	36		36		19	5 1/8	7 7/8		N/A		19	4 1/2	6		N/A		23	5 1/2	8 1/2	6 13/16	12'-5"	
13'-5"	445	19	5 1/8	7 7/8	17	4 1/2	6	15	4 5/8	7	18	4 1/2	6	19	5	7		N/A		19	5	6 1/4	36		36		18	5 1/8	7 7/8		N/A		18	4 1/2	6		N/A		21	5 1/2	8 1/2	6 13/16	13'-5"	
14'-5"	445	18	5 1/8	7 7/8	11	4 1/2	6	11	4 5/8	7	11	4 1/2	6	18	5	7		N/A		18	5	6 1/4	36		36		17	5 1/8	7 7/8		N/A		11	4 1/2	6		N/A		20	5 1/2	8 1/2	6 13/16	14'-5"	
15'-5"	445	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 13/16	15'-5"	
16'-5"	445	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 13/16	16'-5"	
17'-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		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	17'-5"	
18'-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	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	35		24		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	19'-5"	
20'-5"	546	7	5 1/8	7 7/8		N/A			N/A			N/A		7	5	7		N/A			N/A		31		20			N/A			N/A			N/A			N/A		6	5 1/2	8 1/2	6 7/8	20'-5"	
21'-5"	546	6	5 1/8	7 7/8		N/A			N/A			N/A		5	5	7		N/A			N/A		27		17			N/A			N/A			N/A			N/A			N/A		6	7/8	21'-5"
22'-5"	648	10	5 3/4	8 3/4	7	5 1/2	8		N/A		8	5 1/2	8	10	6 1/4	8 1/8		N/A		11	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4		N/A		7	5 1/2	8		N/A		10	6 1/4	10	7 1/2	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		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	23'-5"	
24'-5"	648	8	5 3/4	8 3/4		N/A			N/A		6	5 1/2	8	8	6 1/4	8 1/8		N/A		5	6 5/8	7 7/8	36		31		9	5 3/4	8 3/4		N/A		5	5 1/2	8		N/A		7	6 1/4	10	7 1/2	24'-5"	
25'-5"	648	7	5 3/4	8 3/4		N/A			N/A		6	6 1/4	8 1/8		N/A			N/A			N/A		36		28		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	6	5 3/4	8 3/4		N/A			N/A		5	6 1/4	8 1/8		N/A			N/A			N/A		36		26			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	11/24/2025	KAD	2398

CP0020 - 0.0405 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	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 (-)	
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	14	3/4	5 1/2	16	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	157	0	155	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	25	1/2	4 1/4	14	3/4	5 1/2	20	1/2	4 1/4	9	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	158	0	155	4'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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	N/A	N/A	N/A	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	192	0	190	5'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	10	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	20	1/2	4 1/4	N/A	N/A	N/A	17	1/2	4 1/4	N/A	N/A	N/A	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	193	0	190	5'-5"
11'-5"	1 1/4	0.406	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 13/16	15	20	11/16" x 7/8"	28	21	10	7	5/16	1521	402	1481	404	11'-5"
12'-5"	1 3/8	0.531	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 13/16	15	20	11/16" x 7/8"	27	19	9	7	5/16	1597	437	1564	438	12'-5"
13'-5"	1 1/2	0.656	CP1152 & CP1153	445	8.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 13/16	14	19	11/16" x 7/8"	25	18	9	6	5/16	1692	471	1664	473	13'-5"
14'-5"	1 5/8	0.781	CP1152 & CP1153	546	7.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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"	22	15	8	6	5/16	1794	506	1769	507	14'-5"
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	17	11/16" x 7/8"	21	14	7	5	5/16	1898	540	1876	542	15'-5"
16'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	16.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	17	11/16" x 7/8"	21	15	8	5	5/16	1868	574	1851	576	16'-5"
17'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	14.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	15	11/16" x 7/8"	18	12	7	5	5/16	2105	609	2088	611	17'-5"
18'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2343	644	2326	647	18'-5"
19'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	8	12	11/16" x 7/8"	13	8	5	N/A	5/16	2581	680	2564	682	19'-5"
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	17.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2313	713	2297	713	20'-5"
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2519	748	2502	749	21'-5"
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	12	14	7/8" x 1"	27	19	10	7	3/8	2726	783	2710	784	22'-5"
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2935	819	2919	820	23'-5"

CP0020 - 0.0405 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.						
4'-5"	333	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		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 3/16	4'-5"
4'-5"	344	28	3 7/8	6	26	3 5/8	6	25	3 3/4	6	27	3 3/4	5 1/2	34	4 1/4	6 3/4	26	4	6	36	4 1/4	5 1/2	36		36		28	3 7/8	6	24	2 1/2	4	27	3 3/4	5 1/2	36	4 1/4	6 3/4	36	4	6 1/4	5 3/4	4'-5"
5'-5"	333	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	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 3/16	5'-5"
5'-5"	344	25	3 7/8	6	24	3 5/8	6	23	3 3/4	6	24	3 3/4	5 1/2	31	4 1/4	6 3/4	23	4	6	36	4 1/4	5 1/2	36		36		25	3 7/8	6	22	2 1/2	4	25	3 3/4	5 1/2	33	4 1/4	6 3/4	33	4	6 1/4	5 3/4	5'-5"
11'-5"	445	18	5 1/8	7 7/8	11	4 1/2	6	11	4 5/8	7	11	4 1/2	6	18	5	7	N/A			18	5	6 1/4	36		36		17	5 1/8	7 7/8	N/A			11	4 1/2	6	N/A			19	5 1/2	8 1/2	6 13/16	11'-5"
12'-5"	445	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 13/16	12'-5"
13'-5"	445	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		35		11	5 1/8	7 7/8	N/A			9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 13/16	13'-5"
14'-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		33		11	5 1/8	7 7/8	N/A			8	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	14'-5"
15'-5"	546	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		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	15'-5"
16'-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		29		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	16'-5"
17'-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	17'-5"
18'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A				31		21		N/A			N/A			N/A			6	5 1/2	8 1/2	6 7/8	18'-5"		
19'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A				27		17		N/A			N/A			N/A			N/A			6 7/8	19'-5"		
20'-5"	648	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4	N/A			7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	20'-5"
21'-5"	648	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			7	6 5/8	7 7/8	36		33		9	5 3/4	8 3/4	N/A			6	5 1/2	8	N/A			8	6 1/4	10	7 1/2	21'-5"
22'-5"	648	8	5 3/4	8 3/4	N/A			N/A			5	5 1/2	8	7	6 1/4	8 1/8	N/A			N/A				36		30		8	5 3/4	8 3/4	N/A			N/A			7	6 1/4	10	7 1/2	22'-5"		
23'-5"	648	6	5 3/4	8 3/4	N/A			N/A			N/A			6	6 1/4	8 1/8	N/A			N/A				36		27		7	5 3/4	8 3/4	N/A			N/A			6	6 1/4	10	7 1/2	23'-5"		

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	11/24/2025	KAD	2398

Guide Construction								CP0020 - 0.0405 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	Filled CMU																																				
								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 (+)	Vy (+)	Vx (-)	Vy (-)						
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	179	0	177	4'-5"
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	21	1/2	4 1/4	12	3/4	5 1/2	18	1/2	4 1/4	8	3/4	5 1/2	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	180	0	177	4'-5"
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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	8	3/8	5 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	219	0	217	5'-5"		
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	18	1/2	4 1/4	N/A	N/A	N/A	14	1/2	4 1/4	N/A	8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	220	0	217	5'-5"		
11'-5"	1 1/4	0.406	CP1152 & CP1153	445	7.0000	5/8	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	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 13/16	13	17	11/16" x 7/8"	23	16	8	6	5/16	1835	460	1791	462	11'-5"			
12'-5"	1 3/8	0.531	CP1152 & CP1153	546	7.0000	5/8	17.0000	N/A	N/A	N/A	N/A	N/A	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	17	11/16" x 7/8"	20	14	7	5	5/16	1906	499	1869	501	12'-5"				
13'-5"	1 1/2	0.656	CP1152 & CP1153	546	7.0000	5/8	16.0000	N/A	N/A	N/A	N/A	N/A	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	2003	539	1971	541	13'-5"				
14'-5"	1 5/8	0.781	CP1152 & CP1153	546	7.0000	5/8	15.0000	N/A	N/A	N/A	N/A	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	15	11/16" x 7/8"	18	12	7	5	5/16	2110	578	2082	580	14'-5"					
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	7.0000	5/8	14.0000	N/A	N/A	N/A	N/A	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	14	11/16" x 7/8"	16	11	6	N/A	5/16	2221	618	2197	620	15'-5"					
16'-5"	2	1.156	CP1152 & CP1153	546	7.0000	5/8	14.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	10	15	11/16" x 7/8"	17	11	6	N/A	5/16	2181	656	2162	658	16'-5"					
17'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2447	696	2427	699	17'-5"					
18'-5"	2 1/2	1.656	CP1152 & CP1153	648	7.0000	3/4	18.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	15	17	7/8" x 1"	35	25	12	8	3/8	2215	734	2197	735	18'-5"					
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000	N/A	N/A	N/A	N/A	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	15	7/8" x 1"	31	22	11	8	3/8	2443	774	2425	775	19'-5"					
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	15.0000	N/A	N/A	N/A	N/A	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"	28	19	10	7	3/8	2673	815	2655	816	20'-5"					
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	N/A	N/A	N/A	N/A	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	2905	855	2887	856	21'-5"					

CP0020 - 0.0405 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 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	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.							
4'-5"	333	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 3/16	4'-5"	
4'-5"	344	26	3 7/8	6	24	3 5/8	6	24	3 3/4	6	25	3 3/4	5 1/2	32	4 1/4	6 3/4	24	4	6	36	4 1/4	5 1/2	36		36	26	3 7/8	6	22	2 1/2	4	26	3 3/4	5 1/2	34	4 1/4	6 3/4	34	4	6 1/4	5 3/4	4'-5"	
5'-5"	333	N/A			17	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	24	3 1/2	4 3/4	32		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 3/16	5'-5"	
5'-5"	344	23	3 7/8	6	22	3 5/8	6	21	3 3/4	6	22	3 3/4	5 1/2	29	4 1/4	6 3/4	22	4	6	36	4 1/4	5 1/2	36		36	23	3 7/8	6	20	2 1/2	4	23	3 3/4	5 1/2	31	4 1/4	6 3/4	31	4	6 1/4	5 3/4	5'-5"	
11'-5"	445	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			11	5	6 1/4	36		33	10	5 1/8	7 7/8	N/A			8	4 1/2	6	N/A			10	5 1/2	8 1/2	6 13/16	11'-5"	
12'-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		31	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	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			9	5	6 1/4	36		28	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	13'-5"	
14'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	6	4 5/8	7	6	4 1/2	6	9	5	7	N/A			7	5	6 1/4	36		26	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	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	34		23	7	5 1/8	7 7/8	N/A			N/A			N/A	7	5 1/2	8 1/2	6 7/8	15'-5"			
16'-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	34		23	7	5 1/8	7 7/8	N/A			N/A			N/A	7	5 1/2	8 1/2	6 7/8	16'-5"			
17'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			N/A			29		19	N/A			N/A			N/A	5	5 1/2	8 1/2	6 7/8	17'-5"			
18'-5"	648	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	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		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	19'-5"	
20'-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			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	20'-5"
21'-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			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	21'-5"

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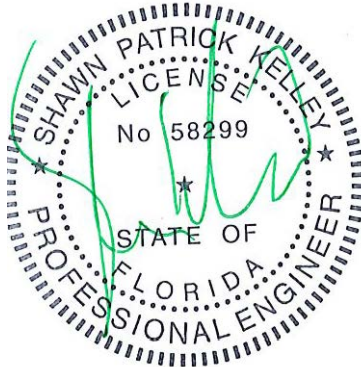
CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 90 PSF																																														
Guide Construction								Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)																										
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	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 (-)			
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	8	1/2	3 3/4	N/A			9	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	202	0	199	4'-5"			
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	9	5/8	4 1/2	N/A			8	5/8	4 3/8	19	1/2	4 1/4	N/A			16	1/2	4 1/4	N/A		8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	203	0	199	4'-5"			
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	34	3/16	0	247	0	244	5'-5"			
5'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	15	3/4	5 1/2	N/A				N/A		16	1/2	4 1/4	N/A			13	1/2	4 1/4	N/A		8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	248	0	244	5'-5"			
10'-5"	1 1/8	0.281	CP1152 & CP1153	546	7.0000	5/8	16.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	5/8	6 7/8	10	14	11/16" x 7/8"	17	11	6	5	5/16	2164	474	2103	476	10'-5"			
11'-5"	1 1/4	0.406	CP1152 & CP1153	546	7.0000	5/8	16.0000		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	5	5/16	2149	518	2100	520	11'-5"			
12'-5"	1 3/8	0.531	CP1152 & CP1153	546	7.0000	5/8	15.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	5/8	6 7/8	10	14	11/16" x 7/8"	16	11	6	N/A	5/16	2216	562	2175	564	12'-5"			
13'-5"	1 1/2	0.656	CP1152 & CP1153	546	6.0000	5/8	14.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	5/8	6 7/8	10	14	11/16" x 7/8"	15	10	6	N/A	5/16	2314	607	2279	609	13'-5"			
14'-5"	1 5/8	0.781	CP1152 & CP1153	546	6.0000	5/8	13.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2426	651	2395	653	14'-5"			
15'-5"	1 3/4	0.906	CP1152 & CP1153	546	6.0000	5/8	12.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	5/8	6 7/8	9	12	11/16" x 7/8"	13	8	5	N/A	5/16	2545	695	2517	698	15'-5"			
16'-5"	2	1.156	CP1152 & CP1153	546	6.0000	5/8	12.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2493	738	2472	741	16'-5"			
17'-5"	2 1/4	1.406	CP1152 & CP1153	648	6.0000	3/4	16.0000		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	11	7	3/8	2501	783	2476	784	17'-5"			
18'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	16.0000		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	2524	826	2503	827	18'-5"			
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000		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	2777	872	2757	873	19'-5"			
20'-5"	2 9/16	1.719	CP1152 & CP1153	DC6	6.0000	3/4	13.0000		N/A		N/A				N/A		N/A		N/A				N/A			N/A		8	3/4	9 1/4	11	12	7/8" x 1"	24	16	9	6	3/8	2970	916	2951	918	20'-5"			

CP0020 - 0.0405 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.						
4'-5"	333	N/A			18	2 3/8	4	18	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	26	2 1/2	4	5 3/16	4'-5"			
4'-5"	344	24	3 7/8	6	23	3 5/8	6	22	3 3/4	6	23	3 3/4	5 1/2	30	4 1/4	6 3/4	23	4	6	36	4 1/4	5 1/2	36		36	24	3 7/8	6	21	2 1/2	4	24	3 3/4	5 1/2	32	4 1/4	6 3/4	32	4	6 1/4	5 3/4	4'-5"			
5'-5"	333	N/A			16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	21	2 1/2	4	12	2 1/4	4	22	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 3/16	5'-5"			
5'-5"	344	22	3 7/8	6	21	3 5/8	6	20	3 3/4	6	21	3 3/4	5 1/2	27	4 1/4	6 3/4	21	4	6	33	4 1/4	5 1/2	36		36	22	3 7/8	6	19	2 1/2	4	22	3 3/4	5 1/2	29	4 1/4	6 3/4	29	4	6 1/4	5 3/4	5'-5"			
10'-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		27	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	10'-5"			
11'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	5	4 1/2	6	8	5	7	N/A			7	5	6 1/4	36		26	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	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		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	12'-5"			
13'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			33		22	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5 1/2	8 1/2	6 7/8	13'-5"			
14'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			31		20	N/A			N/A			N/A			6	5 1/2	8 1/2	6 7/8	14'-5"						
15'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			28		18	N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	15'-5"						
16'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			28		18	N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	16'-5"						
17'-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		34	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"	648	9	5 3/4	8 3/4	N/A			N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			7	6 5/8	7 7/8	36		33	9	5 3/4	8 3/4	N/A			5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	18'-5"
19'-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	19'-5"			
20'-5"	DC6	11	5 3/4	8 3/4	9	5 1/2	8	N/A			10	5 1/2	8	10	6 1/4	8 1/8	N/A			12	6 5/8	7 7/8	36		36	11	5 3/4	8 3/4	10	4 1/2	6	9	5 1/2	8	N/A			10	6 1/4	10	9 1/4	20'-5"			

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Guide Construction										CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 100 PSF																				Steel (Wall anchors are the same diameter as assembly fasteners)															
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Filled CMU																														Superimposed Loads					D.B.G. Up To		
								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 (-)		
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12.0000	3/8	18.0000	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 3/16	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	224	0	221	4'-5"	
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12.0000	1/2	18.0000	8	5/8	4 1/2	N/A			8	3/4	5 1/4	17	1/2	4 1/4	N/A			14	1/2	4 1/4	N/A			8	1/2	5 3/4	36	36	9/16" x 3/4"	36	36	36	36	1/4	0	225	0	221	4'-5"	
10'-5"	1 1/8	0.281	CP1152 & CP1153	546	6.0000	5/8	14.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8		5/8	6 7/8	9	12	11/16" x 7/8"	14	9	6	N/A	5/16	2495	528	2429	530	10'-5"
11'-5"	1 1/4	0.406	CP1152 & CP1153	546	6.0000	5/8	14.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8		5/8	6 7/8	9	13	11/16" x 7/8"	14	9	6	N/A	5/16	2463	576	2409	579	11'-5"
12'-5"	1 3/8	0.531	CP1152 & CP1153	546	6.0000	5/8	13.0000	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8		5/8	6 7/8	9	12	11/16" x 7/8"	13	9	5	N/A	5/16	2525	625	2480	628	12'-5"
13'-5"	1 1/2	0.656	CP1152 & CP1153	546	6.0000	5/8	12.0000	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"	13	8	5	N/A	5/16	2625	674	2586	677	13'-5"
16'-5"	2	1.156	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2819	822	2786	823	16'-5"
17'-5"	2 1/4	1.406	CP1152 & CP1153	648	6.0000	3/4	15.0000	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	2810	870	2783	871	17'-5"
18'-5"	2 1/2	1.656	CP1152 & CP1153	648	6.0000	3/4	14.0000	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	2832	918	2809	919	18'-5"

CP0020 - 0.0405 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.						
4'-5"	333	N/A			17	2 3/8	4	17	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	14	2 1/4	4	24	3 1/2	4 3/4	32	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 3/16	4'-5"	
4'-5"	344	23	3 7/8	6	22	3 5/8	6	21	3 3/4	6	22	3 3/4	5 1/2	29	4 1/4	6 3/4	22	4	6	36	4 1/4	5 1/2	36	36		23	3 7/8	6	20	2 1/2	4	23	3 3/4	5 1/2	30	4 1/4	6 3/4	30	4	6 1/4	5 3/4	4'-5"	
10'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			32	21		N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	10'-5"	
11'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			32	21		N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	11'-5"	
12'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			30	19		N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	12'-5"	
13'-5"	546	5	5 1/8	7 7/8	N/A			N/A			N/A			5	5	7	N/A			N/A			27	18		N/A			N/A			N/A			N/A			N/A			6 7/8	13'-5"	
16'-5"	648	7	5 3/4	8 3/4	N/A			N/A			5			5 1/2	8	7	6 1/4	8 1/8	N/A			N/A			36	29		8	5 3/4	8 3/4	N/A			N/A			7	6 1/4	10	7 1/2	16'-5"		
17'-5"	648	7	5 3/4	8 3/4	N/A			N/A			N/A			N/A			6	6 1/4	8 1/8	N/A			N/A			36	29		7	5 3/4	8 3/4	N/A			N/A			6	6 1/4	10	7 1/2	17'-5"	
18'-5"	648	7	5 3/4	8 3/4	N/A			N/A			N/A			N/A			6	6 1/4	8 1/8	N/A			N/A			36	27		7	5 3/4	8 3/4	N/A			N/A			6	6 1/4	10	7 1/2	18'-5"	



COOKSON Preferred door solutions®

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

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E: ADS@COOKSONDOOR.COM

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

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

WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 36/36

DWG NO: ES-16-135-TCCI

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED