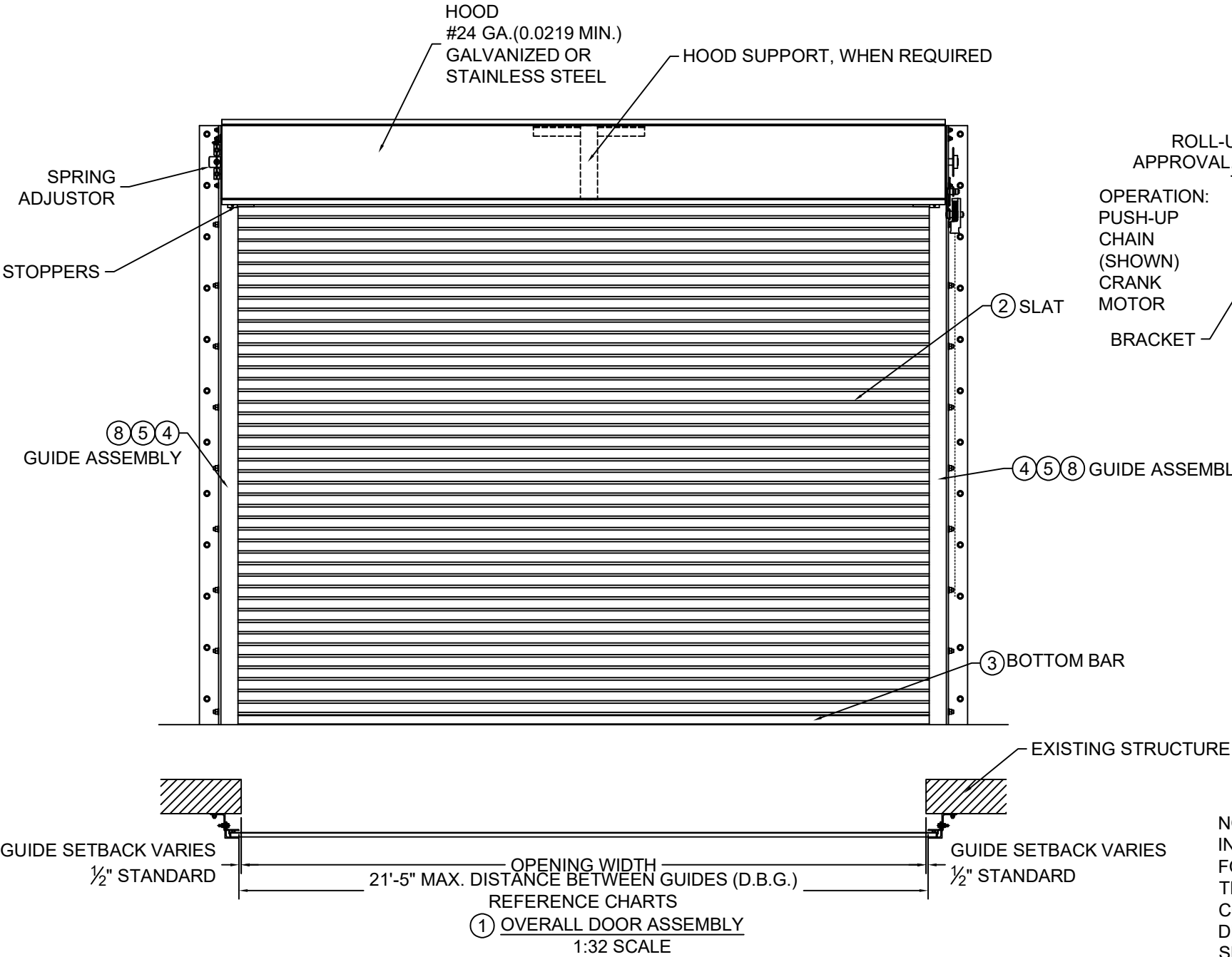
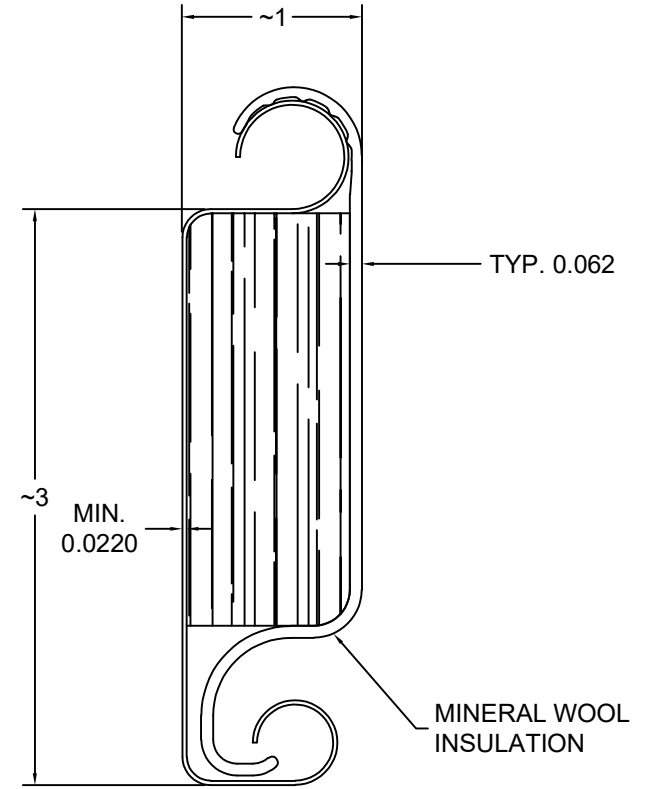
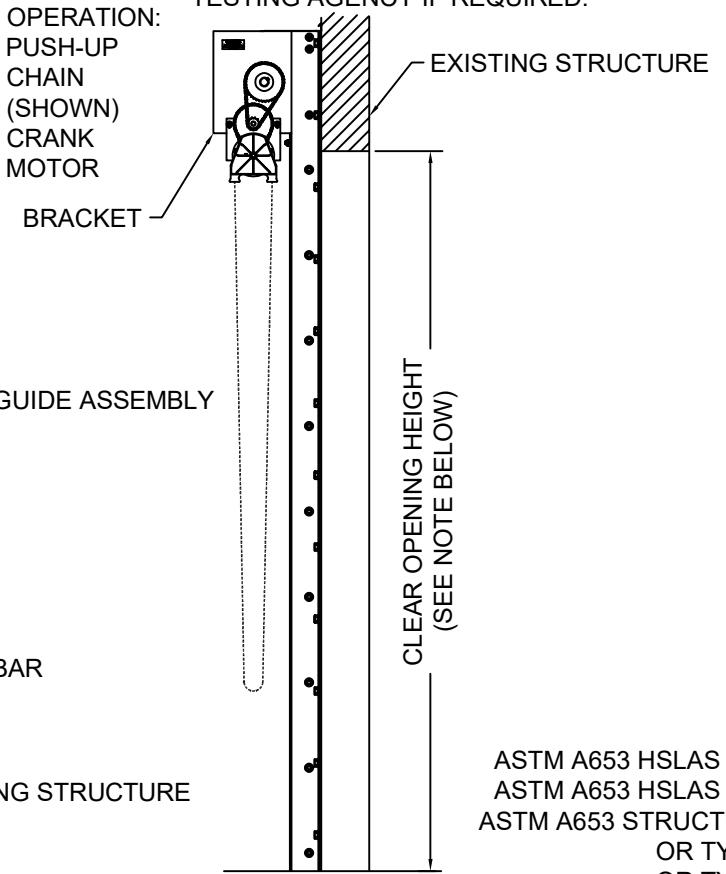


L'TR	REVISION	DATE	BY	E.C.O.
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A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398



ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



② SLAT DETAIL
TYPICAL SECTION
FRONT SLAT:

ASTM A653 HSLAS TYPE B GRADE 40 G40 WITH POLYESTER BASED COATING OR
ASTM A653 HSLAS TYPE A GRADE 40 G40 WITH POLYESTER BASED COATING OR
ASTM A653 STRUCTURAL STEEL GRADE 40 G40 WITH POLYESTER BASED COATING
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)
BACK SLAT:
CHLORINATED POLYVINYL CHLORIDE, LOW-SMOKE
FULL SCALE

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

SHAWN PATRICK KELLEY
LICENSED PROFESSIONAL ENGINEER
No 58299
Digitally signed by shawn p kelley
Date: 2026.08.19 17:17:46 -0400

shawn p
kelley

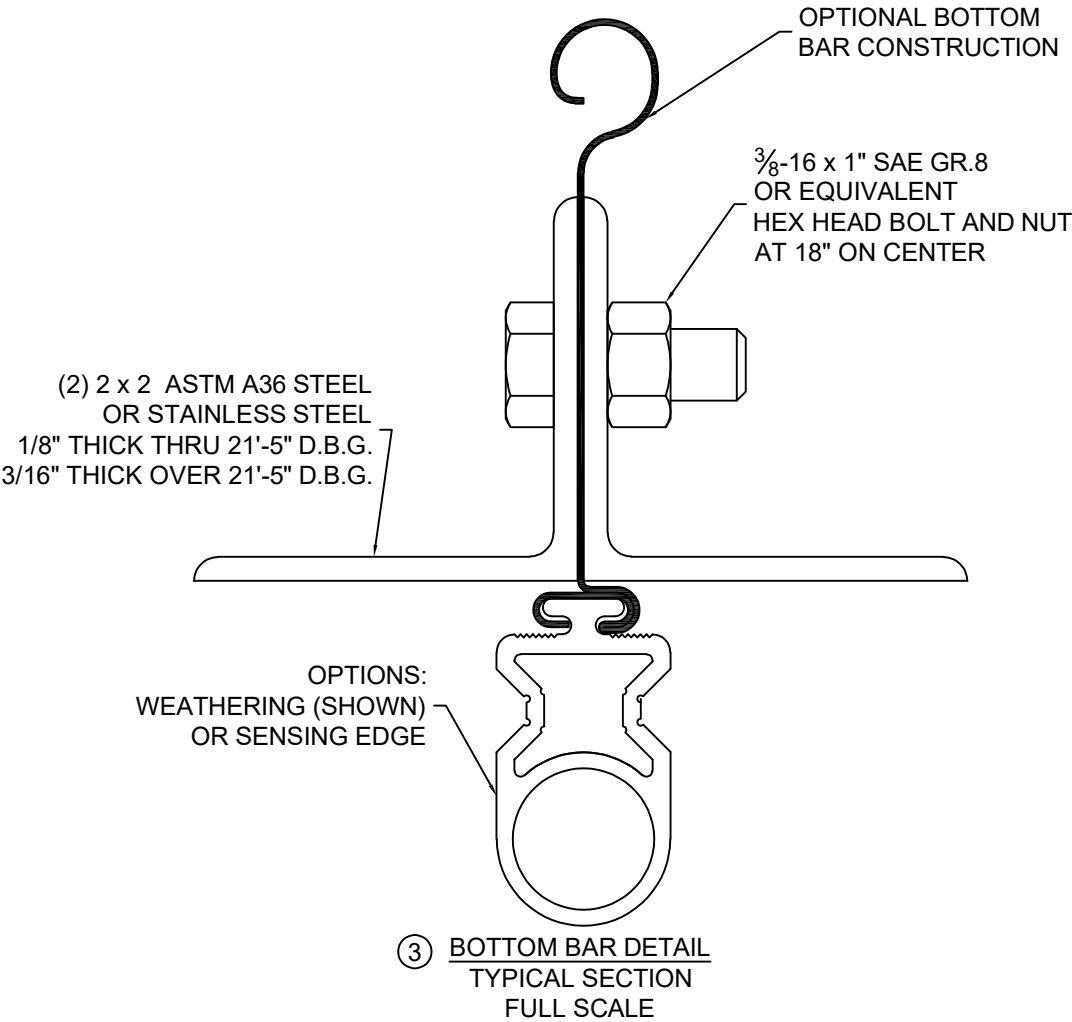
	CLOPAY CORPORATION 8585 DUKE BOULEVARD MASON, OH 45040		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
	P: 800.225.6729 F: 513.440.4853					
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CA1245 SLAT NON-IMPACT RATED			DRAWN BY:	SIZE:	SCALE:	SHEET:
			KAD	B	AS NOTED	1/52
			DWG NO: ES-16-142-CLO			

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

GENERAL NOTES:

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



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

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

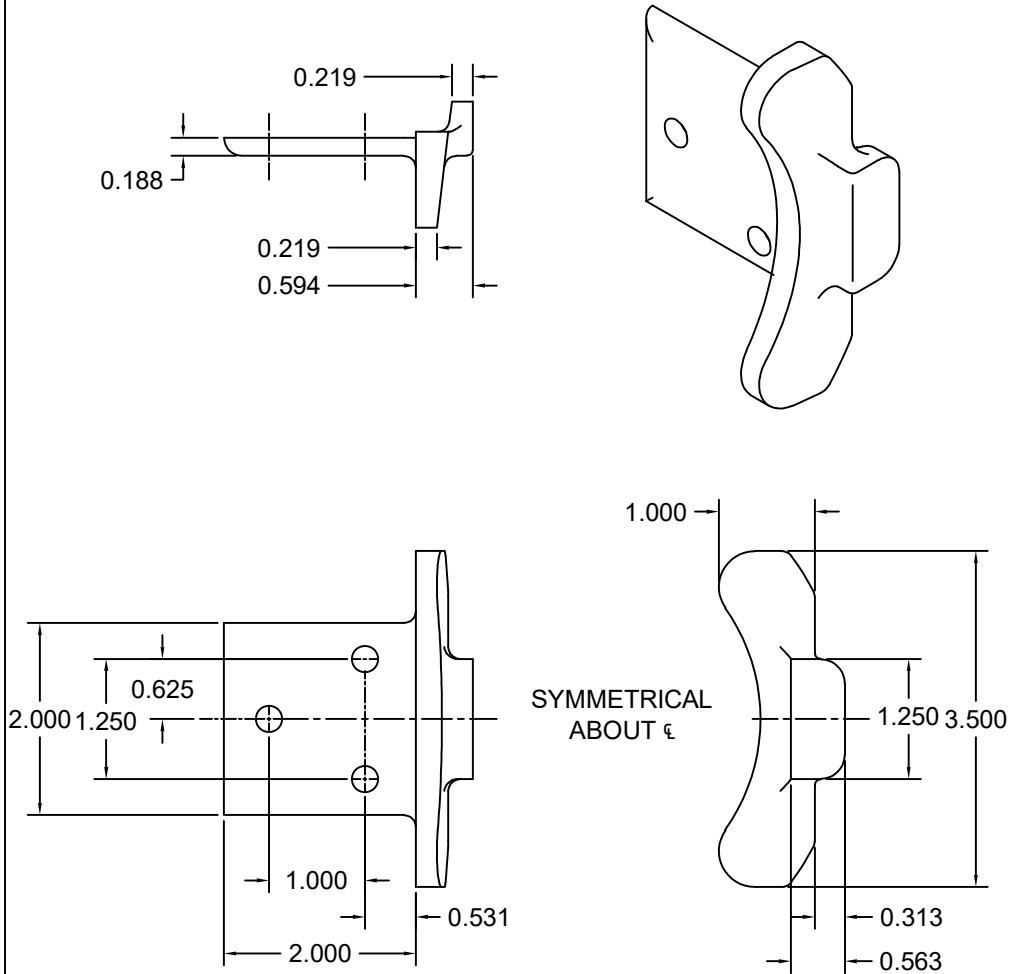
0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

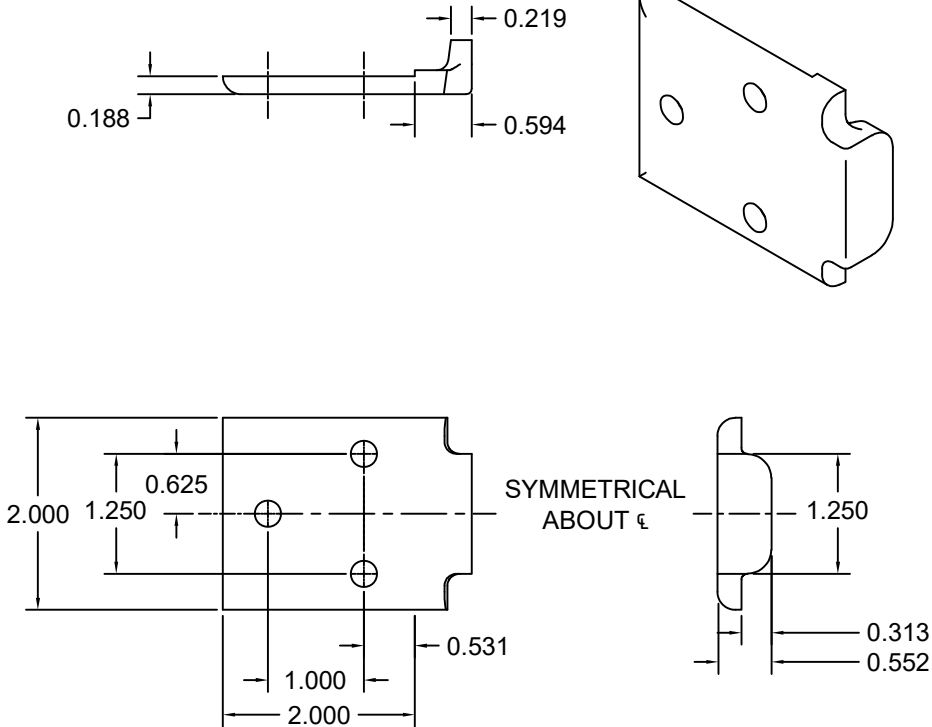
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SIZE: B
SCALE: AS NOTED
SHEET: 2/52
DWG NO: ES-16-142-CLO

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

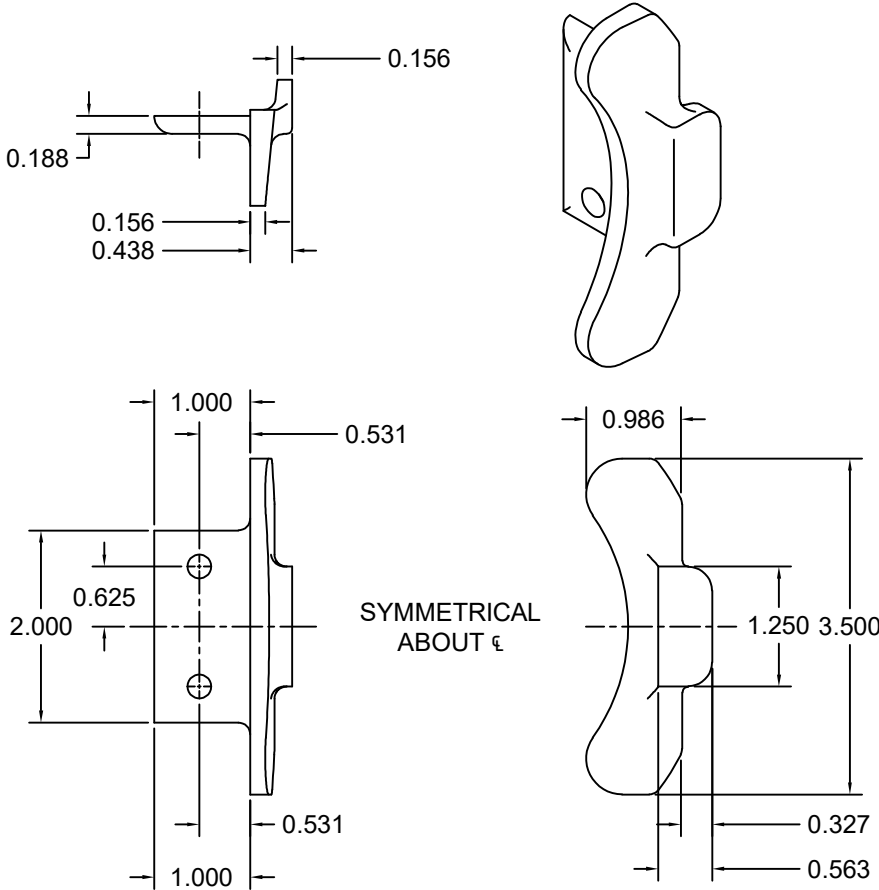
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A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398



⑩ CP0630 ENDLOCK / WINDLOCK DETAIL
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH
 ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE



⑪ CP0647 WINDLOCK DETAIL
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE



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



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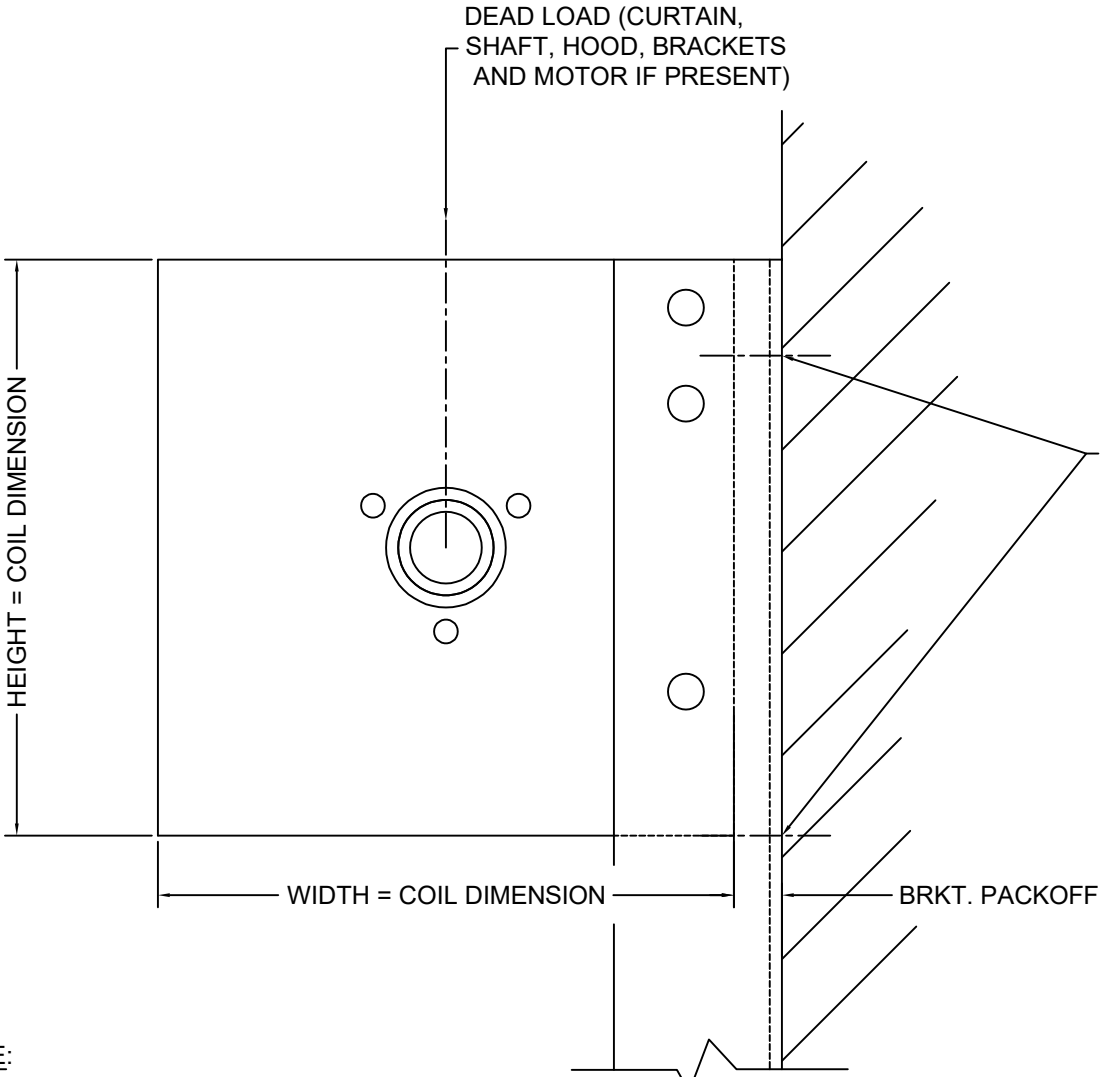
TITLE: **WIND LOAD CONFIGURATION
 INSULATED ROLLING STEEL DOOR
 CA1245 SLAT NON-IMPACT RATED**

DRAWN BY: **KAD** SIZE: **B** SCALE: **AS NOTED** SHEET: **4/52**

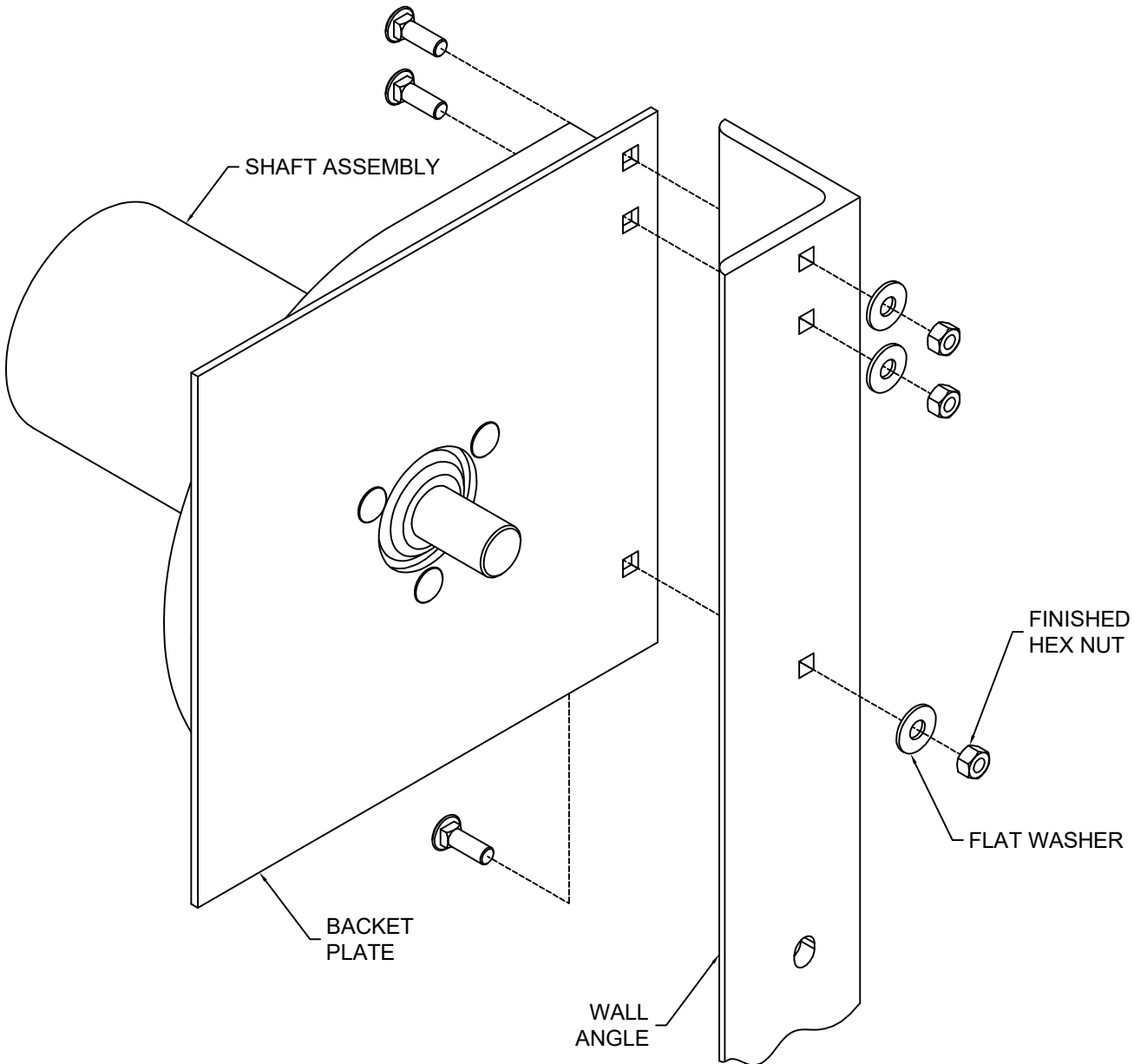
DWG NO: **ES-16-142-CLO**

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

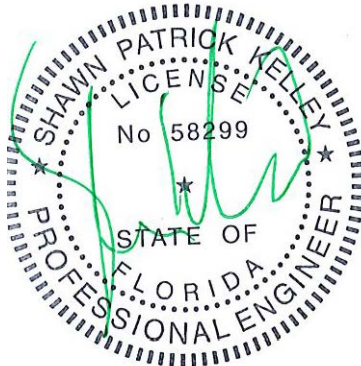
L'TR	REVISION	DATE	BY	E.C.O.
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A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398



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



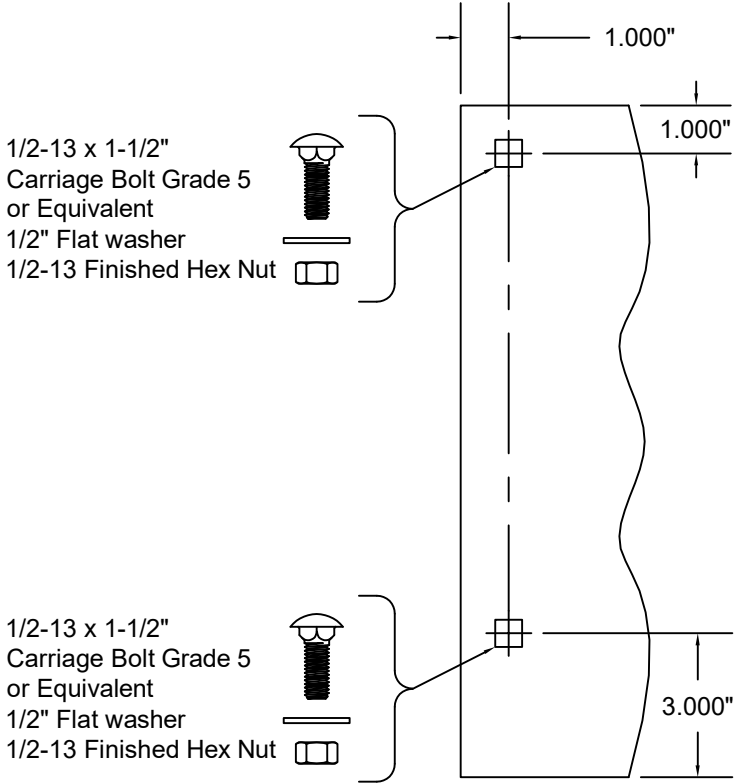
NOTE:
1. STANDARD BRACKET MOUNTING DETAIL IS DEPICTED, OTHER MOUNTINGS ARE AVAILABLE



 CLOPAY CORPORATION 8585 DUKE BOULEVARD MASON, OH 45040 P: 800.225.6729 F: 513.440.4853	Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CA1245 SLAT NON-IMPACT RATED	DRAWN BY: KAD	SIZE: B	SCALE: AS NOTED
		SHEET: 5/52		
		DWG NO: ES-16-142-CLO		

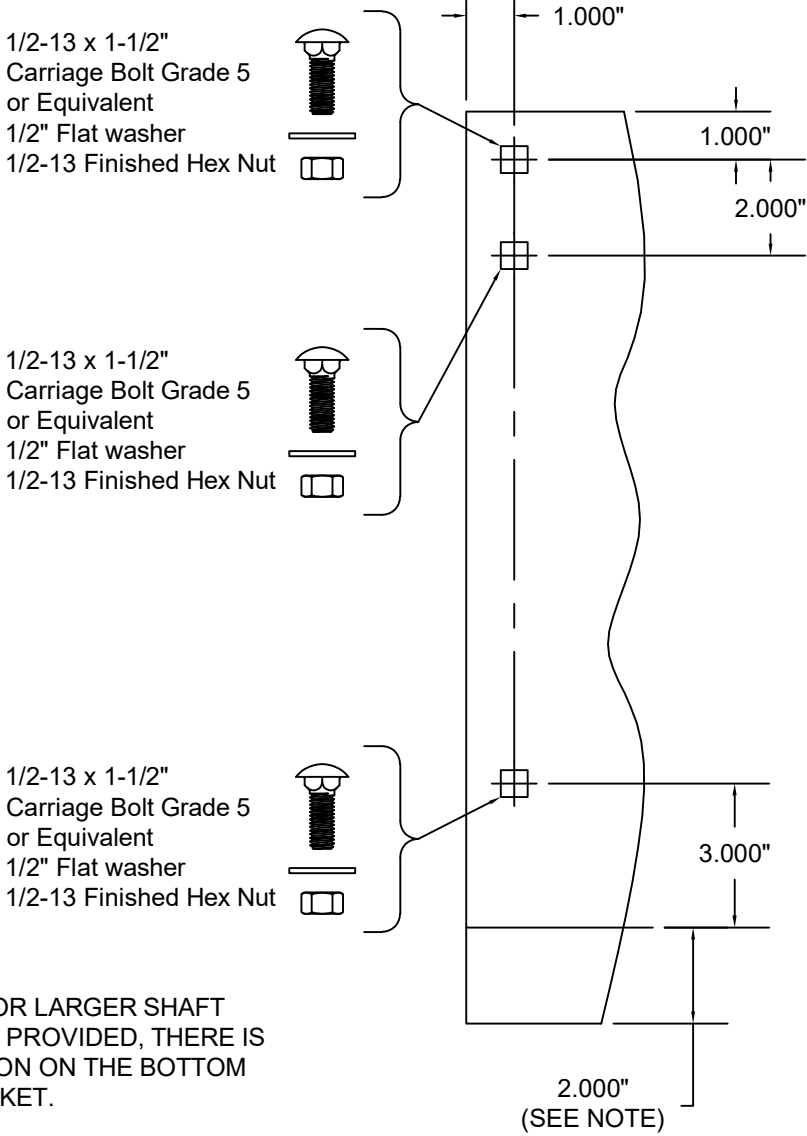
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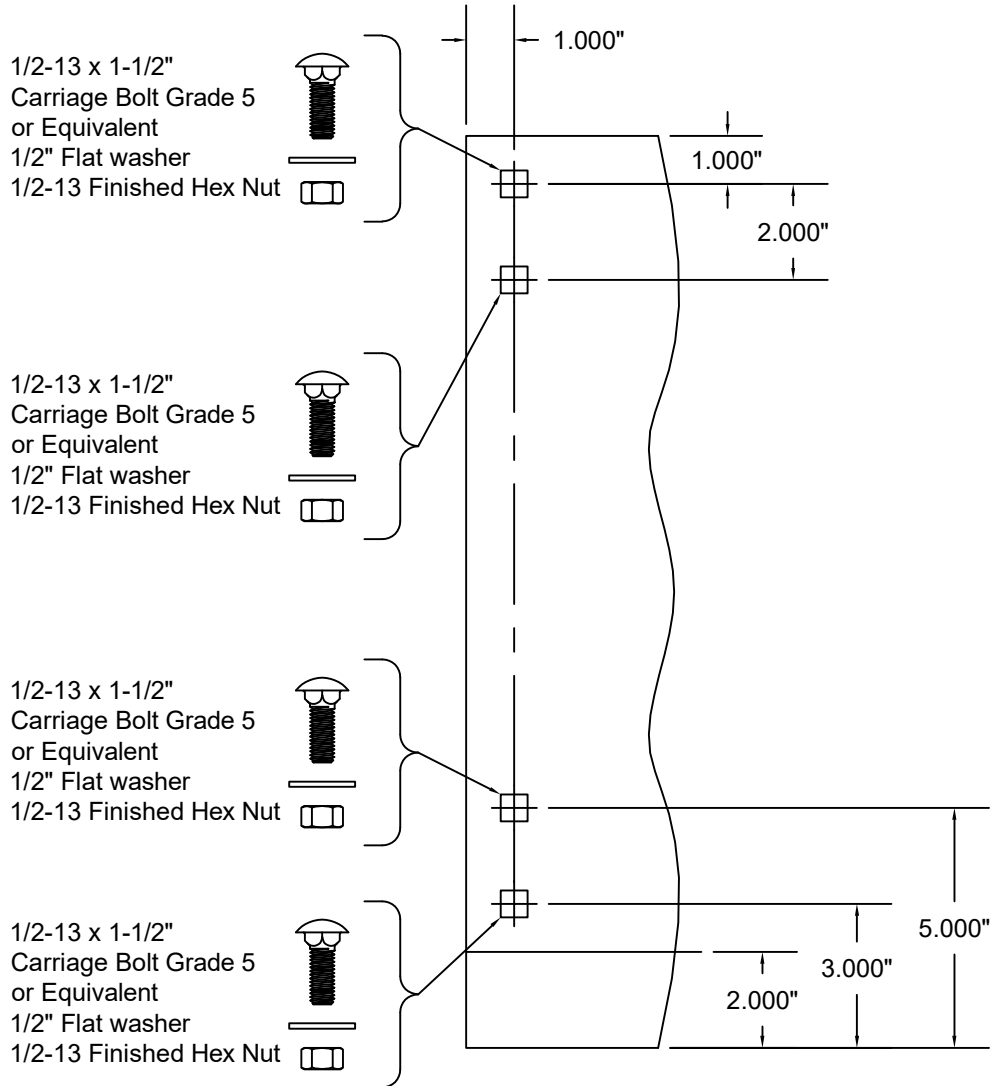


THRU 6"Ø SHAFT ASSEMBLY
14" THRU 16" COIL DIMENSION
MIN. THICKNESS 0.172" ASTM A36
OR ASTM A480 STAINLESS STEEL,
TYPES 304 OR 316, MINIMUM 36 KSI YIELD STRENGTH
SCALE: 1-1/2" = 1'-0"

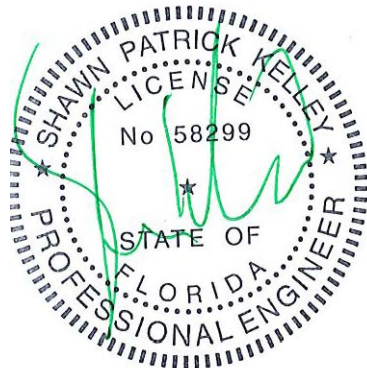
NOTE:
WHEN A 8"Ø OR LARGER SHAFT
ASSEMBLY IS PROVIDED, THERE IS
A 2" EXTENSION ON THE BOTTOM
OF THE BRACKET.



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



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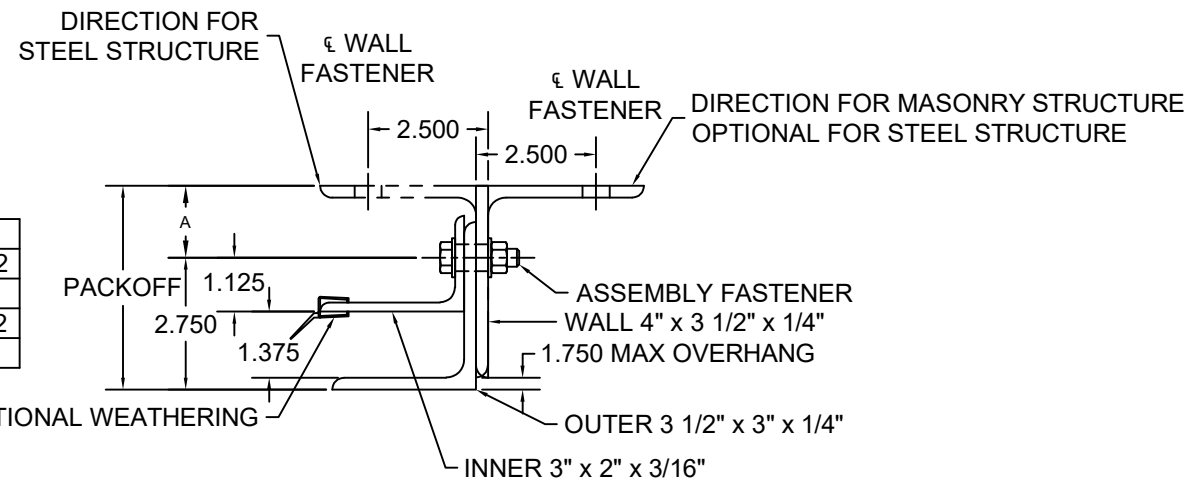
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ANGLES = +/- 1/2 DEG

TITLE: **WIND LOAD CONFIGURATION**
INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

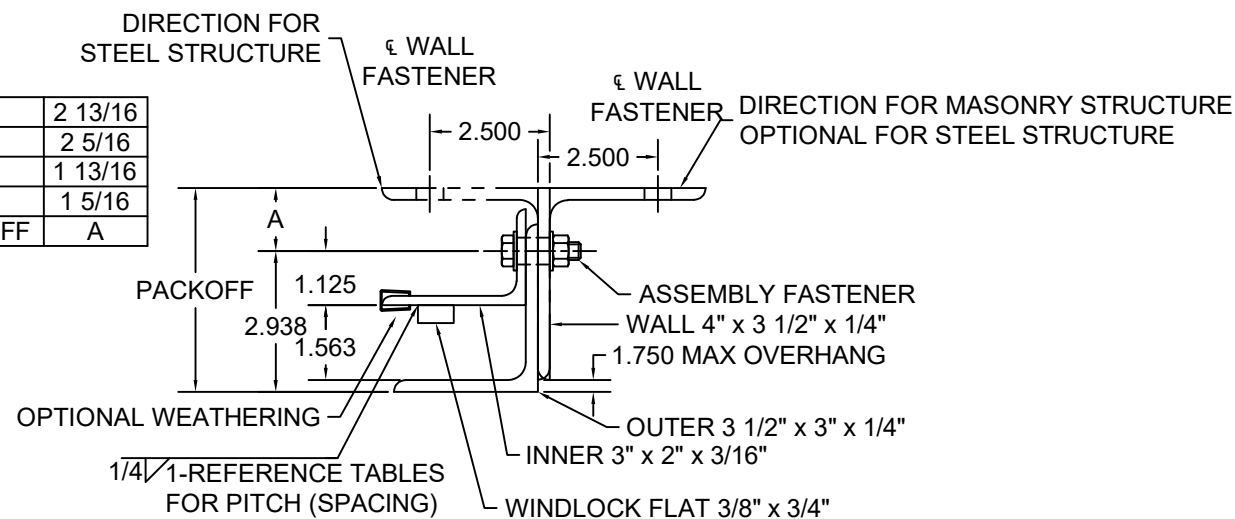
DRAWN BY: **KAD** SIZE: **B** SCALE: **AS NOTED** SHEET: **6/52**
DWG NO: **ES-16-142-CLO**

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED



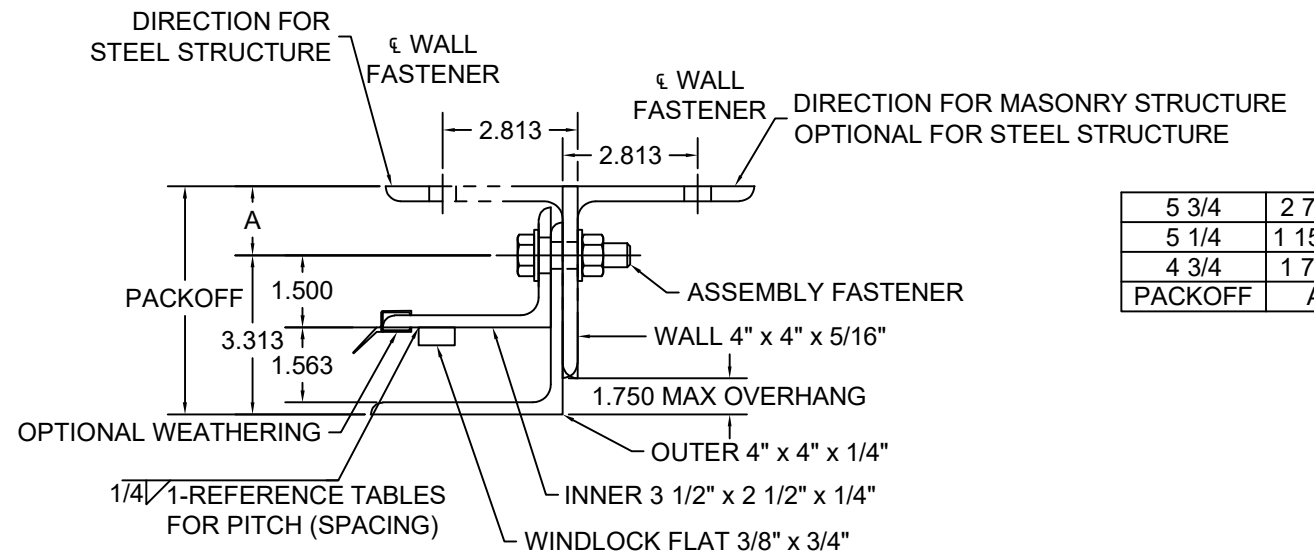
GUIDE ASSEMBLY TYPE 344* (NON-WINDLOCK)
SCALE: 3" = 1'-0"

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



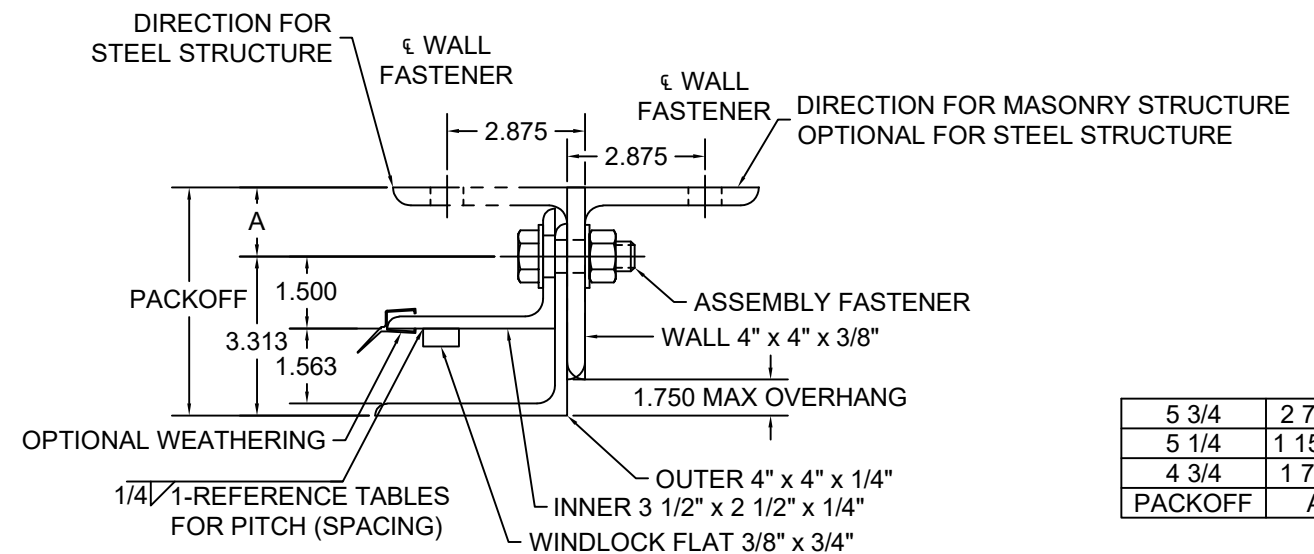
GUIDE ASSEMBLY TYPE 344
SCALE: 3" = 1'-0"

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



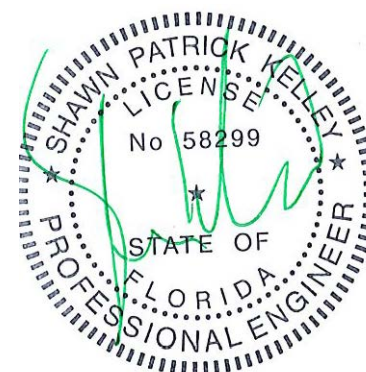
GUIDE ASSEMBLY TYPE 445
SCALE: 3" = 1'-0"

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



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

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



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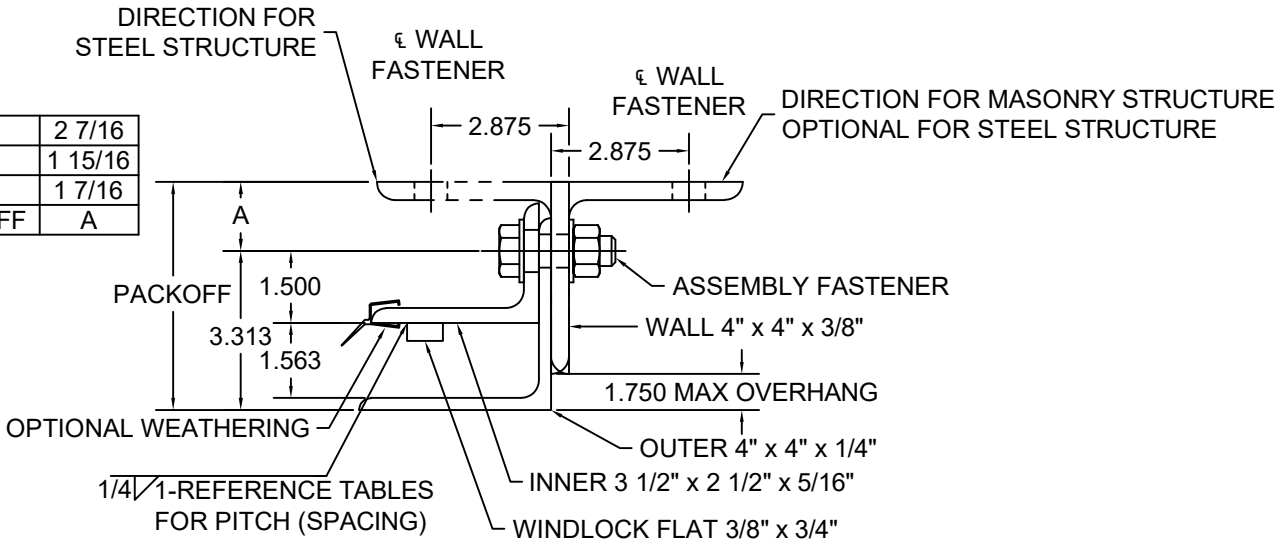
TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 7/52

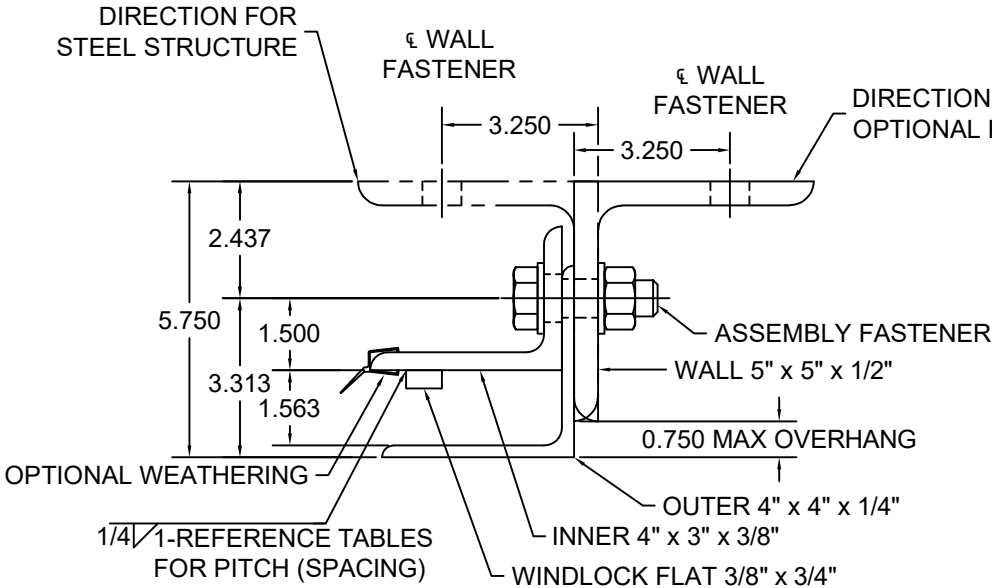
DWG NO: ES-16-142-CLO

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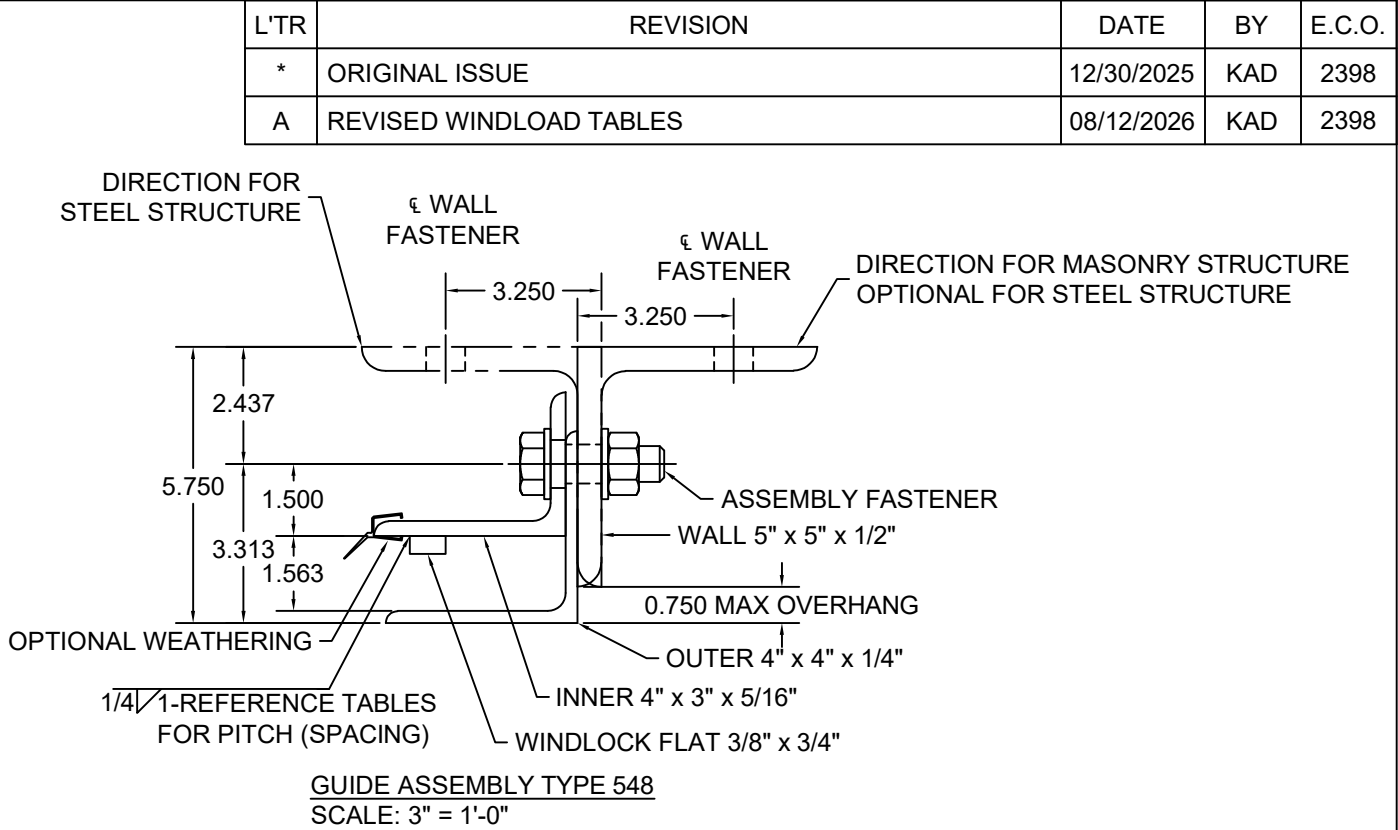
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A



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



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



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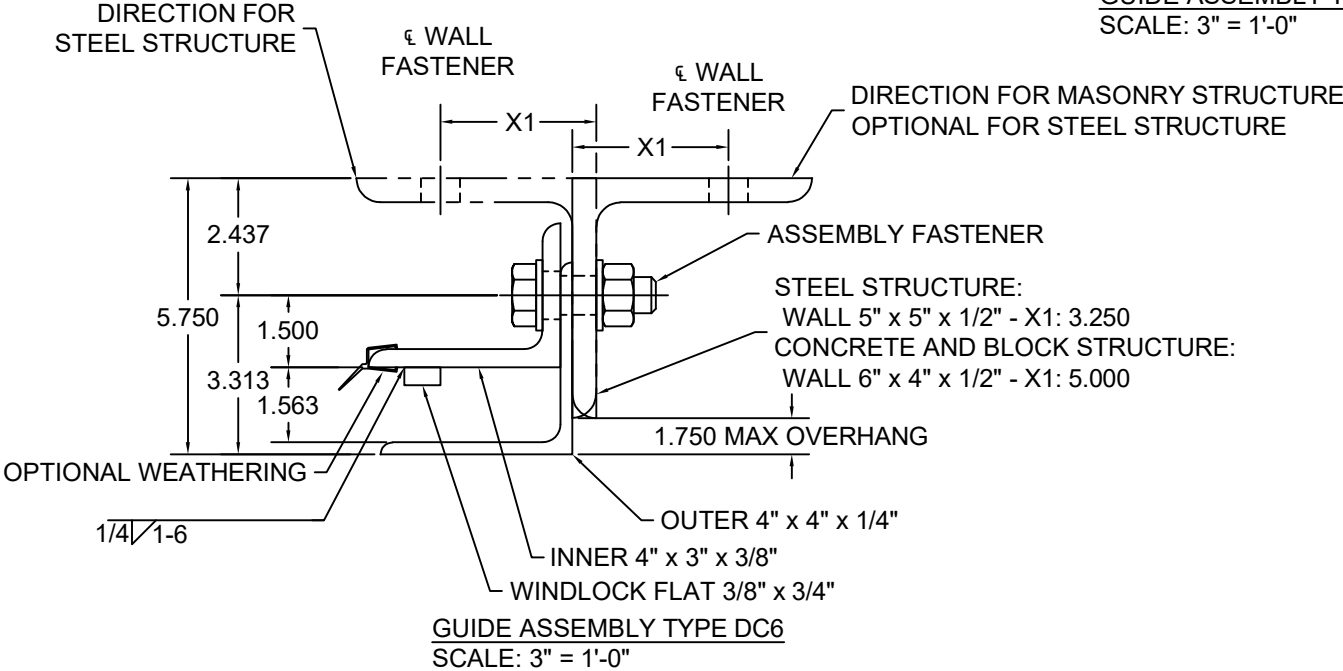
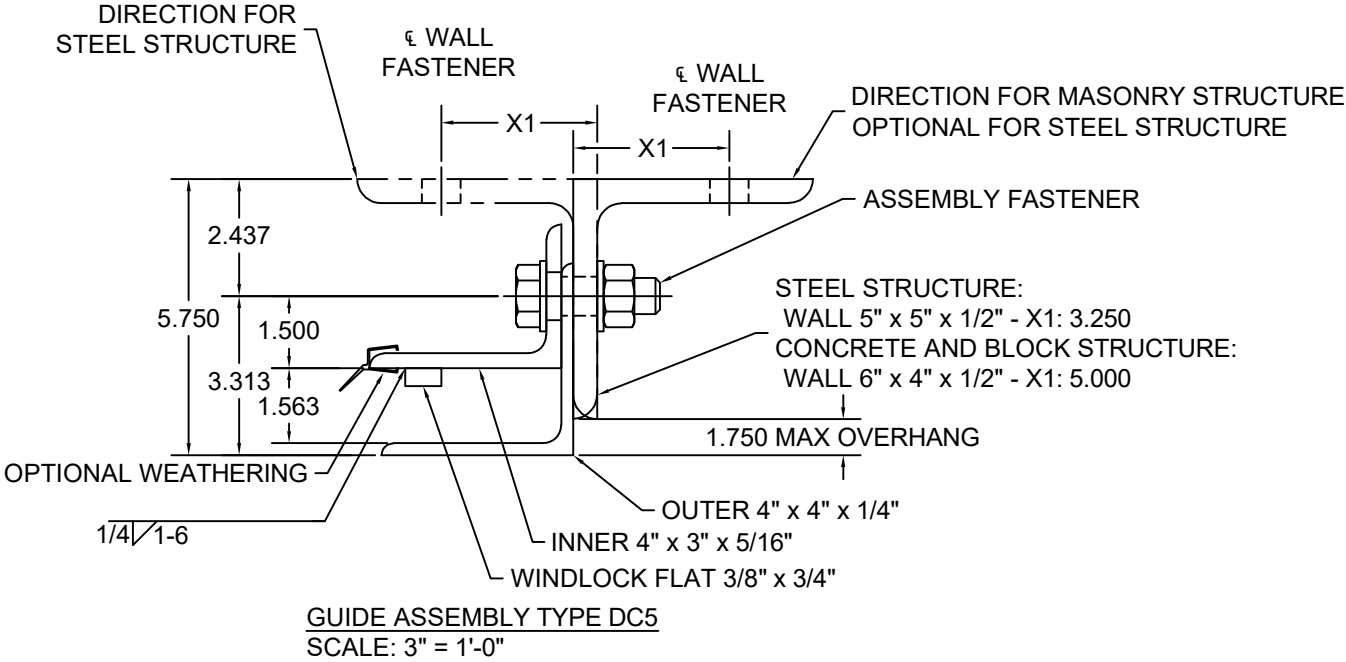
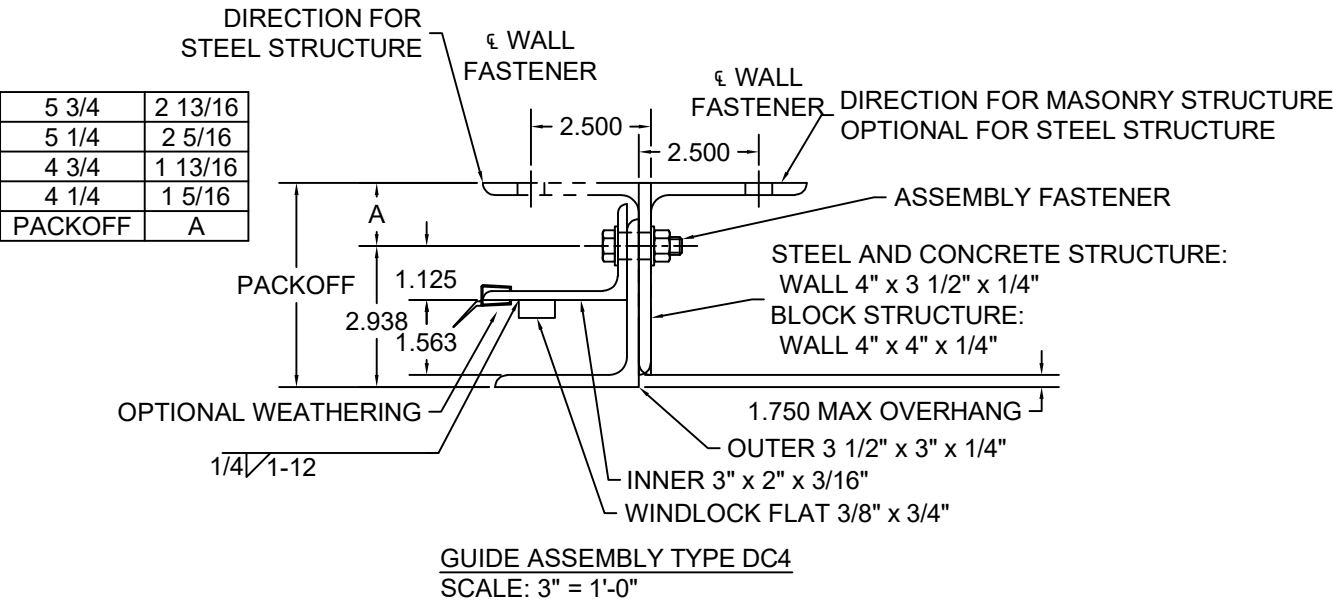
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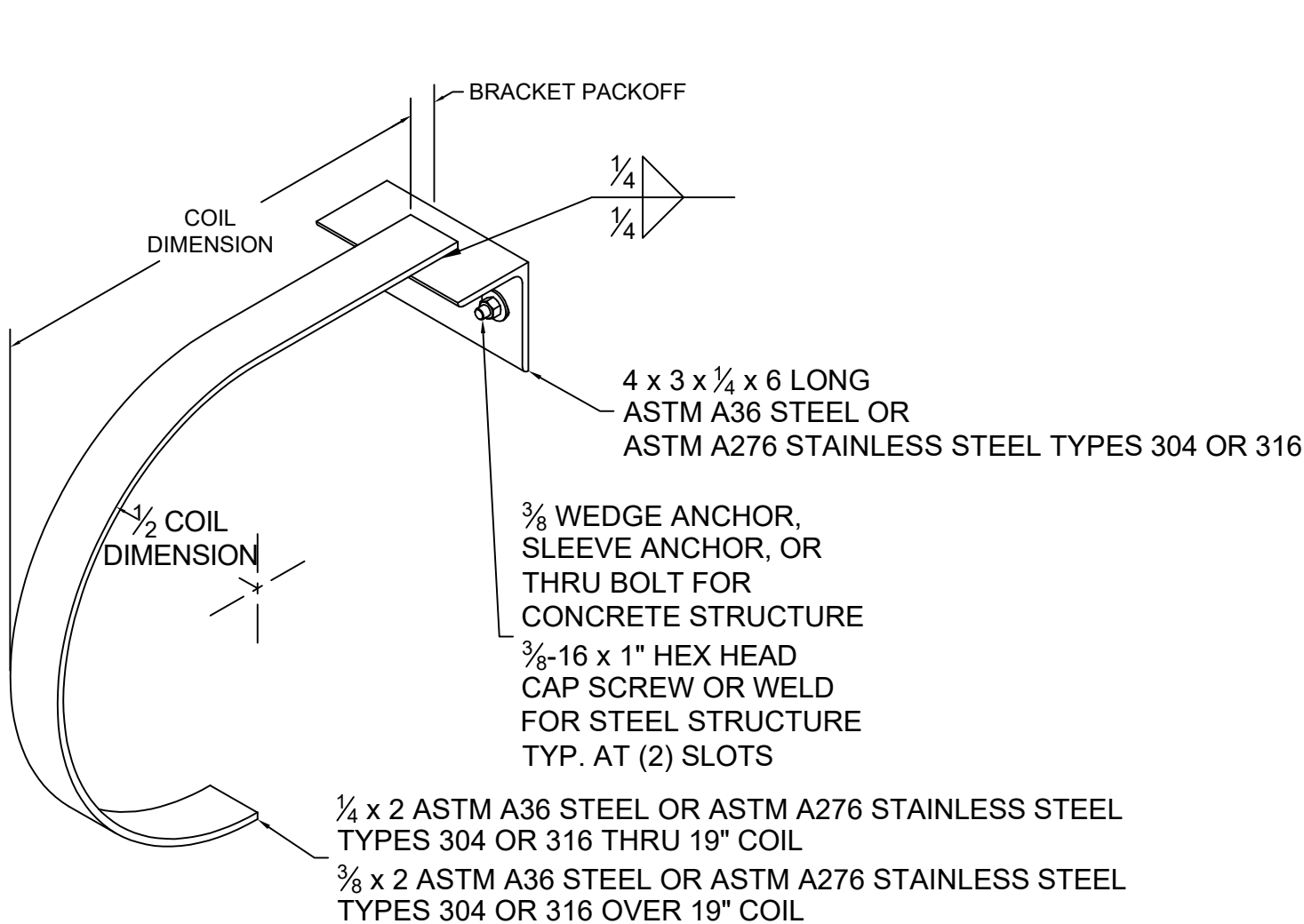
0.000 = +/- 0.031
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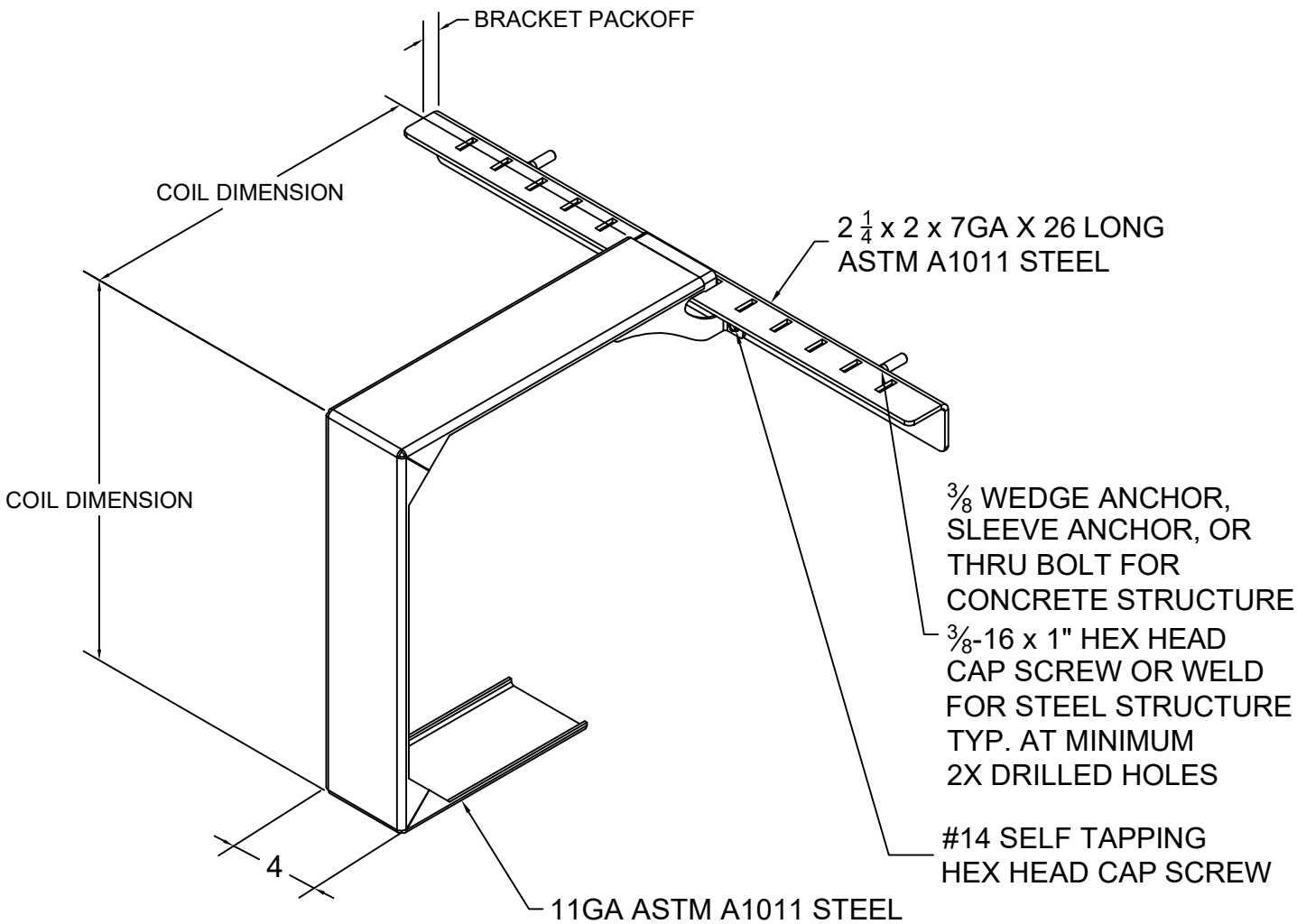
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SIZE: B
SCALE: AS NOTED
SHEET: 9/52
DWG NO: ES-16-142-CLO

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



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



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INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

DRAWN BY: KAD	SIZE: B	SCALE: AS NOTED	SHEET: 10/52
DWG NO: ES-16-142-CLO			

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CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																																												
Guide Construction								Filled CMU																				Steel (Wall anchors are the same diameter as assembly fasteners)																
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	16	3/8	1 7/8	18	3/8	2 3/8	18	3/8	2 5/8	13	3/8	1 5/8	20	3/8	2 3/4	14	3/8	2	18	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	45	0	44	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	1 7/8	15	3/8	2 3/8	15	3/8	2 5/8	10	3/8	1 5/8	16	3/8	2 3/4	11	3/8	2	14	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	55	0	54	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	1 7/8	13	3/8	2 3/8	12	3/8	2 5/8	9	3/8	1 5/8	14	3/8	2 3/4	9	3/8	2	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	65	0	64	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	1 7/8	11	3/8	2 3/8	11	3/8	2 5/8	31	3/8	3 1/4	12	3/8	2 3/4	8	3/8	2	10	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	75	0	74	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	1 7/8	10	3/8	2 3/8	9	3/8	2 5/8	27	3/8	3 1/4	15	1/2	3 1/2	27	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	85	0	84	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	24	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	95	0	94	9'-5"
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	3	8	3/8	2 3/8	9	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	105	0	104	10'-5"
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	115	0	114	11'-5"
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	18	3/8	3 1/4	14	5/8	4 1/2	18	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	125	0	124	12'-5"
13'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	134	13'-5"
14'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	145	0	144	14'-5"
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	18	3/8	3 1/4	14	5/8	4 1/2	18	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	32	36	7/16" x 5/8"	30	23	11	9	3/16	315	155	303	154	15'-5"
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	23	36	7/16" x 5/8"	22	17	8	6	3/16	434	165	423	165	16'-5"
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	9	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	10	3/8	3 1/4	N/A	N/A	N/A	9	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	18	35	7/16" x 5/8"	17	12	6	5	3/16	547	175	537	175	17'-5"
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	8	5/8	4 1/2	N/A	N/A	N/A	N/A	N/A	N/A	13	1/2	4 1/4	N/A	N/A	N/A	11	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	15	29	7/16" x 5/8"	14	9	5	N/A	3/16	656	185	647	185	18'-5"
19'-5"	1 1/2	0.719	CP0629	344	10	3/8	12	12	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	11	1/2	4 1/4	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	13	25	7/16" x 5/8"	11	7	N/A	N/A	3/16	762	195	753	195	19'-5"
20'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	14	1/2	4 1/4	N/A	N/A	N/A	12	1/2	4 1/4	N/A	N/A	N/A	8	1/2	6 13/16	23	36	9/16" x 3/4"	32	24	11	8	1/4	691	214	685	214	20'-5"
21'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	14	1/2	4 1/4	N/A	N/A	N/A	12	1/2	4 1/4	N/A	N/A	N/A	8	1/2	6 13/16	23	36	9/16" x 3/4"	32	24	11	8	1/4	691	214	685	214	21'-5"

CA1245 - 0.022_0.062 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"	344*	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			33	1 7/8	3 1/4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			34	2 3/8	4	33	2 3/8	3 3/4	34	2 1/2	4	36	2 1/2	4	33	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			29	1 7/8	3 1/4	33	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			31	2 3/8	4	30	2 3/8	3 3/4	31	2 1/2	4	36	2 1/2	4	30	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			27	1 7/8	3 1/4	31	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			29	2 3/8	4	28	2 3/8	3 3/4	29	2 1/2	4	36	2 1/2	4	28	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			25	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	7'-5"
8'-5"	344*	N/A			27	2 3/8	4	26	2 3/8	3 3/4	27	2 1/2	4	36	2 1/2	4	26	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			23	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	8'-5"
9'-5"	344*	N/A			26	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	34	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	36	2 1/2	4	5 3/4	9'-5"
10'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	32	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			21	1 7/8	3 1/4	24	2 1/2	4	33	2 1/2	4	34	2 1/2	4	5 3/4	10'-5"
11'-5"	344*	N/A			23	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	30	2 1/2	4	22	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	11'-5"
12'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	12'-5"
13'-5"	344*	N/A			21	2 3/8	4	21	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	13'-5"
14'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4	36	35	N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	14'-5"
15'-5"	344	N/A			19	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	25	2 1/2	4	18	2 1/4	4	27	3 1/2	4 3/4	36	36	N/A			14	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	15'-5"
16'-5"	344	N/A			16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	21	2 1/2	4	14	2 1/4	4	20	3 1/2	4 3/4	36	36	N/A			11	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	16'-5"
17'-5"	344	N/A			13	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	19	2 1/2	4	11	2 1/4	4	16	3 1/2	4 3/4	36	28	N/A			7	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	17'-5"
18'-5"	344	N/A			11	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	17	2 1/2	4	9	2 1/4	4	14	3 1/2	4 3/4	31	21	N/A			13	2 1/2	4	16	2 1/2	4	16	2 1/2	4	5 3/4	18'-5"			
19'-5"	344	N/A			9	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			11	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 3/4	19'-5"			
20'-5"	445	21	3 7/8	6	18	3 5/8	6	17	3 3/4	6	20	3 3/4	5 1/2	24	4 1/4	6 3/4	19	4	6	25	4 1/4	5 1/2	36	36	N/A			13	2 1/2	4	20	3 3/4	5 1/2	22	4 1/4	6 3/4	26	4	6 1/4	6 13/16	20'-5"
21'-5"	445	21	3 7/8	6	18	3 5/8	6	17	3 3/4	6	20	3 3/4	5 1/2	24	4 1/4	6 3/4	19	4	6	25	4 1/4	5 1/2	36	36	N/A			13	2 1/2	4	20	3 3/4	5 1/2	22	4 1/4	6 3/4	26	4	6 1/4	6 13/16	21'-5"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

Guide Construction										CA1245 - 0.022_0.062 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.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	11	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	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	68	0	66	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	28	3/8	3 1/4	16	1/2	3 1/2	28	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	83	0	81	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	23	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	98	0	96	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	113	0	111	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	18	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	128	0	126	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	143	0	141	9'-5"
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	158	0	156	10'-5"
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A			9	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	173	0	171	11'-5"
12'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	3/8	1 7/8	9	3/8	2 3/8	9	3/8	2 5/8	27	3/8	3 1/4	14	1/2	3 1/2	27	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	20	17	3/16	158	187	138	186	12'-5"
13'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	3/8	3	10	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	10	5/8	4 1/2	8	3/8	5 3/4	29	36	7/16" x 5/8"	27	21	10	8	3/16	344	202	327	202	13'-5"
14'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	9	5/8	4 1/2	N/A			8	5/8	4 3/8	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	19	36	7/16" x 5/8"	18	13	6	5	3/16	515	217	500	217	14'-5"
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	13	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A			10	1/2	4 1/4	N/A			8	3/8	5 3/4	15	28	7/16" x 5/8"	13	9	5	N/A	3/16	677	232	663	232	15'-5"
16'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A			8	3/4	5 1/4	14	1/2	4 1/4	N/A			11	1/2	4 1/4	N/A			8	1/2	6 13/16	24	36	9/16" x 3/4"	32	25	11	8	1/4	674	261	666	261	16'-5"
17'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A			8	3/4	5 1/4	14	1/2	4 1/4	N/A			11	1/2	4 1/4	N/A			8	1/2	6 13/16	24	36	9/16" x 3/4"	32	25	11	8	1/4	674	261	666	261	17'-5"
18'-5"	2	1.219	CP0629	445	10	1/2	18	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	20	31	9/16" x 3/4"	27	21	10	7	1/4	795	275	786	276	18'-5"
19'-5"	2	1.156	CP0630	445	10	1/2	17	10	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			8	1/2	4 1/4	N/A			8	1/2	6 13/16	17	26	9/16" x 3/4"	23	17	8	6	1/4	945	291	937	291	19'-5"
20'-5"	2	1.156	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A		N/A	N/A			8	1/2	6 13/16	15	23	9/16" x 3/4"	20	14	7	5	1/4	1064	306	1055	307	20'-5"
21'-5"	2	1.156	CP0630	445	8	1/2	14	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A		N/A	N/A			8	1/2	6 13/16	13	21	9/16" x 3/4"	17	12	6	N/A	1/4	1181	321	1173	322	21'-5"

CA1245 - 0.022 0.062 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 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"	344*	N/A			31	2 3/8	4	29	2 3/8	3 3/4	31	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			27	1 7/8	3 1/4	30	2 1/2	4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			28	2 3/8	4	27	2 3/8	3 3/4	28	2 1/2	4	36	2 1/2	4	27	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			24	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	33	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	35	2 1/2	4	35	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			23	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	33	2 1/2	4	5 3/4	7'-5"
8'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	31	2 1/2	4	5 3/4	8'-5"
9'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	20	2 1/4	4	34	3 1/2	4 3/4	36	36		N/A			18	1 7/8	3 1/4	20	2 1/2	4	29	2 1/2	4	29	2 1/2	4	5 3/4	9'-5"			
10'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36	33		N/A			17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	10'-5"			
11'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	28	3 1/2	4 3/4	36	30		N/A			16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	11'-5"			
12'-5"	344	N/A			25	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	32	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			19	1 7/8	3 1/4	26	2 1/2	4	35	2 1/2	4	35	2 1/2	4	5 3/4	12'-5"			
13'-5"	344	N/A			17	2 3/8	4	17	2 3/8	3 3/4	19	2 1/2	4	23	2 1/2	4	16	2 1/4	4	24	3 1/2	4 3/4	36	36		N/A			13	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	13'-5"			
14'-5"	344	N/A			13	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	19	2 1/2	4	11	2 1/4	4	17	3 1/2	4 3/4	36	29		N/A			7	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	14'-5"			
15'-5"	344	N/A			10	2 3/8	4	10	2 3/8	3 3/4	13	2 1/2	4	16	2 1/2	4	8	2 1/4	4	13	3 1/2	4 3/4	29	20		N/A			N/A			13	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	15'-5"			
16'-5"	445	21	3 7/8	6	18	3 5/8	6	17	3 3/4	6	20	3 3/4	5 1/2	24	4 1/4	6 3/4	19	4	6	25	4 1/4	5 1/2	36	36		21			3 7/8	6	12	2 1/2	4	20	3 3/4	5 1/2	22	4 1/4	6 3/4	26	4	6 1/4	6 13/16	16'-5"	
17'-5"	445	21	3 7/8	6	18	3 5/8	6	17	3 3/4	6	20	3 3/4	5 1/2	24	4 1/4	6 3/4	19	4	6	25	4 1/4	5 1/2	36	36		21			3 7/8	6	12	2 1/2	4	20	3 3/4	5 1/2	22	4 1/4	6 3/4	26	4	6 1/4	6 13/16	17'-5"	
18'-5"	445	19	3 7/8	6	16	3 5/8	6	15	3 3/4	6	18	3 3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	21	4 1/4	5 1/2	36	36		18			3 7/8	6	9	2 1/2	4	18	3 3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	18'-5"	
19'-5"	445	17	3 7/8	6	13	3 5/8	6	14	3 3/4	6	16	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	18	4 1/4	5 1/2	36	33		15			3 7/8	6	N/A			17	3 3/4	5 1/2	15	4 1/4	6 3/4	22	4	6 1/4	6 13/16	19'-5"	
20'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36	28		14			3 7/8	6	N/A			15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	20'-5"	
21'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	15	4 1/4	5 1/2	35	24		12			3 7/8	6	N/A			13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	21'-5"	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																																													
Guide Construction								Filled CMU																	Steel (Wall anchors are the same diameter as assembly fasteners)																				
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie 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"	N/A	N/A	N/A	344*	N/A	3/8	24	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	25	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	90	0	88	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	12	1/2	3 1/2	21	3/8	3 1/4	11	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	110	0	108	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	130	0	128	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	15	3/8	3 1/4	15	3/4	5 1/2	15	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	150	0	148	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A		N/A		10	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	170	0	168	8'-5"			
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A		N/A		8	5/8	4 3/8	12	3/8	3 1/4	N/A		12	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	190	0	188	9'-5"		
10'-5"	1 5/16	0.532	CP0629	344	12	3/8	18	9	3/8	3	N/A		N/A		9	5/8	4 3/8	16	3/8	3 1/4	12	3/4	5 1/2	15	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	48	210	16	208	10'-5"
11'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	23	3/8	3 1/4	15	5/8	4 1/2	22	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	17	14	3/16	183	230	158	228	11'-5"	
12'-5"	1 1/2	0.719	CP0629	344	12	3/8	17	8	1/2	3 3/4	8	5/8	3 3/8	9	5/8	4 3/8	12	3/8	3 1/4	13	3/4	5 1/2	12	3/8	3 1/4	N/A		8	3/8	5 3/4	23	36	7/16" x 5/8"	22	17	8	6	3/16	420	250	399	249	12'-5"		
13'-5"	1 1/2	0.719	CP0629	344	12	3/8	12	13	3/4	5 1/2	N/A		N/A		13	1/2	4 1/4	N/A		N/A		10	1/2	4 1/4	N/A		8	3/8	5 3/4	15	29	7/16" x 5/8"	14	10	5	N/A		3/16	638	269	619	269	13'-5"		
14'-5"	2	1.219	CP0629	445	12	1/2	18	13	3/4	5 1/2	N/A		N/A		12	1/2	4 1/4	N/A		N/A		10	1/2	4 1/4	N/A		8	1/2	6 13/16	23	36	9/16" x 3/4"	31	24	11	8	1/4	696	307	685	308	14'-5"			
15'-5"	2	1.219	CP0629	445	12	1/2	18	13	3/4	5 1/2	N/A		N/A		12	1/2	4 1/4	N/A		N/A		10	1/2	4 1/4	N/A		8	1/2	6 13/16	23	36	9/16" x 3/4"	31	24	11	8	1/4	696	307	685	308	15'-5"			
16'-5"	2	1.219	CP0629	445	10	1/2	17	11	3/4	5 1/2	N/A		N/A		9	1/2	4 1/4	N/A		N/A		8	1/2	4 1/4	N/A		8	1/2	6 13/16	19	29	9/16" x 3/4"	26	19	9	6	1/4	854	327	843	328	16'-5"			
17'-5"	2	1.156	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A		N/A		8	1/2	4 1/4	N/A		N/A		8	1/2	4 1/4	N/A		8	1/2	6 13/16	15	24	9/16" x 3/4"	21	14	7	5	1/4	1043	348	1033	349	17'-5"			
18'-5"	2	1.156	CP0630	445	8	1/2	13	N/A			N/A		N/A		8	3/4	6 1/4	N/A		N/A		N/A		N/A		8	1/2	6 13/16	13	21	9/16" x 3/4"	17	21	9/16" x 3/4"	17	12	6	N/A		1/4	1196	368	1185	369	18'-5"
19'-5"	2	1.156	CP0630	445	8	1/2	12	N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8	1/2	6 13/16	12	18	9/16" x 3/4"	14	10	5	N/A		1/4	1347	388	1336	389	19'-5"		
20'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	17	N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8	5/8	6 7/8	12	19	11/16" x 7/8"	22	19	11/16" x 7/8"	22	16	8	5	5/16	1496	408	1486	409	20'-5"
21'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	16	N/A			N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8	5/8	6 7/8	11	18	11/16" x 7/8"	20	14	7	5	5/16	1646	428	1635	429	21'-5"			

CA1245 - 0.022_0.062 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 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"	344*		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 3/4	4'-5"	
5'-5"	344*		N/A		24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36				N/A		21	1 7/8	3 1/4	23	2 1/2	4	33	2 1/2	4	33	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*		N/A		22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36				N/A		19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*		N/A		20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	27	2 1/2	4	19	2 1/4	4	33	3 1/2	4 3/4	36				N/A		18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	28	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*		N/A		19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	29	3 1/2	4 3/4	36				N/A		16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	27	2 1/2	4	5 3/4	8'-5"	
9'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35				N/A		16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	9'-5"	
10'-5"	344		N/A		20	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	25	2 1/2	4	19	2 1/4	4	33	3 1/2	4 3/4	36				N/A		17	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	10'-5"	
11'-5"	344		N/A		22	2 3/8	4	22	2 3/8	3 3/4	24	2 1/2	4	29	2 1/2	4	22	2 1/4	4	36	3 1/2	4 3/4	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 3/4	11'-5"	
12'-5"	344		N/A		15	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	13	2 1/4	4	19	3 1/2	4 3/4	36				N/A		10	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	12'-5"	
13'-5"	344		N/A		10	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	16	2 1/2	4	8	2 1/4	4	13	3 1/2	4 3/4	30				N/A					13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 3/4	13'-5"	
14'-5"	445	20	3 7/8	6	18	3 5/8	6	16	3 3/4	6	19	3 3/4	5 1/2	23	4 1/4	6 3/4	18	4	6	23	4 1/4	5 1/2	36				N/A		19	3 7/8	6							19	3 7/8	6	13/16	14'-5"	
15'-5"	445	20	3 7/8	6	18	3 5/8	6	16	3 3/4	6	19	3 3/4	5 1/2	23	4 1/4	6 3/4	18	4	6	23	4 1/4	5 1/2	36				N/A		19	3 7/8	6	11	2 1/2	4				19	3 7/8	6	13/16	15'-5"	
16'-5"	445	18	3 7/8	6	15	3 5/8	6	15	3 3/4	6	17	3 3/4	5 1/2	20	4 1/4	6 3/4	15	4	6	20	4 1/4	5 1/2	36				N/A		16	3 7/8	6						16	3 7/8	6	13/16	16'-5"		
17'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36				N/A		13	3 7/8	6						13	3 7/8	6	13/16	17'-5"		
18'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	34				N/A		11	3 7/8	6						11	3 7/8	6	13/16	18'-5"		
19'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	7	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	29				N/A		10	3 7/8	6						10	3 7/8	6	13/16	19'-5"		
20'-5"	446	17	5 1/8	7/7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7				N/A	17	5	6 1/4	36				N/A		16	5 1/8	7/7/8						16	5 1/8	7/7/8	6/7/8	20'-5"	
21'-5"	446	15	5 1/8	7/7/8	9	4 1/2	6	8	4 5/8	7	9	4 1/2	6	11	5	7				N/A	12	5	6 1/4	36				N/A		11	5 1/8	7/7/8						10	5 1/2	8 1/2	6/7/8	21'-5"	

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

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 50 PSF																																												
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	113	0	110	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	9	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	138	0	135	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	163	0	160	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	188	0	185	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A		10	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	213	0	210	8'-5"		
9'-5"	1 3/16	0.407	CP0629	344	12	3/8	18	9	3/8	3	N/A			8	5/8	4 3/8	16	3/8	3 1/4	N/A		15	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	67	237	22	235	9'-5"		
10'-5"	1 5/16	0.532	CP0629	344	12	3/8	18	8	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	16	3/8	3 1/4	14	5/8	4 1/2	16	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	33	36	7/16" x 5/8"	32	24	11	9	3/16	285	262	250	261	10'-5"
11'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	8	1/2	3 3/4	8	5/8	3 3/8	9	5/8	4 3/8	11	3/8	3 1/4	13	3/4	5 1/2	11	3/8	3 1/4	N/A		8	3/8	5 3/4	23	36	7/16" x 5/8"	22	17	8	6	3/16	415	287	387	286	11'-5"	
12'-5"	1 1/2	0.719	CP0629	344	12	3/8	11	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	3/8	5 3/4	14	27	7/16" x 5/8"	13	8	5	N/A		3/16	683	312	659	311	12'-5"	
13'-5"	1 7/8	1.094	CP0629	445	12	1/2	18	14	3/4	5 1/2	N/A			8	3/4	5 1/4	13	1/2	4 1/4	N/A		11	1/2	4 1/4	N/A		8	1/2	6 13/16	25	36	9/16" x 3/4"	34	26	12	8	1/4	647	335	632	335	13'-5"		
14'-5"	2	1.219	CP0629	445	10	1/2	18	11	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	1/2	6 13/16	20	32	9/16" x 3/4"	28	22	10	7	1/4	783	359	769	360	14'-5"		
15'-5"	2	1.156	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A		N/A		N/A		8	1/2	6 13/16	16	25	9/16" x 3/4"	21	15	7	5	1/4	1012	385	999	386	15'-5"			
16'-5"	2	1.156	CP0630	445	8	1/2	13	N/A			N/A			N/A			8	3/4	6 1/4	N/A		N/A		N/A		8	1/2	6 13/16	13	21	9/16" x 3/4"	17	12	6	N/A		1/4	1201	410	1187	411	16'-5"		
17'-5"	2	1.156	CP0630 & CP0647	445	8	1/2	11	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	1/2	6 13/16	11	18	9/16" x 3/4"	14	9	5	N/A		1/4	1385	435	1372	436	17'-5"			
18'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	16	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	12	18	1 1/16" x 7/8"	21	15	7	5	5/16	1567	460	1554	461	18'-5"				
19'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	15	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	10	16	1 1/16" x 7/8"	18	13	6	N/A		5/16	1748	485	1735	486	19'-5"			
20'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	9	15	1 1/16" x 7/8"	16	11	6	N/A		5/16	1929	510	1916	512	20'-5"			
21'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	12	N/A			N/A			N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	8	14	1 1/16" x 7/8"	14	9	5	N/A		5/16	2110	536	2097	537	21'-5"			

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 50 PSF - Continued																																												
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																												
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt T22			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt T22 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To	
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.					
4'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36			20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	4'-5"			
5'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	20	2 1/4	4	36	3 1/2	4 3/4	36		36			18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	5'-5"			
6'-5"	344*	N/A			19	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36		32			17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	6'-5"			
7'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35		27			16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	7'-5"			
8'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31		24			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	8'-5"			
9'-5"	344	N/A			20	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	25	2 1/2	4	19	2 1/4	4	31	3 1/2	4 3/4	34		26			16	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	28	2 1/2	4	5 3/4	9'-5"			
10'-5"	344	N/A			18	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	23	2 1/2	4	16	2 1/4	4	24	3 1/2	4 3/4	36		36			13	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	10'-5"			
11'-5"	344	N/A			15	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	12	2 1/4	4	19	3 1/2	4 3/4	36		35			9	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	11'-5"			
12'-5"	344	N/A			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	27		19				N/A		12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	12'-5"			
13'-5"	445	20	3 7/8	6	18	3 5/8	6	17	3 3/4	6	20	3 3/4	5 1/2	23	4 1/4	6 3/4	18	4	6	24	4 1/4	5 1/2	36		36		20	3 7/8	6		12	2 1/2	4	20	3 3/4	5 1/2	22	4 1/4	6 3/4	26	4	6 1/4	6 13/16	13'-5"
14'-5"	445	18	3 7/8	6	16	3 5/8	6	15	3 3/4	6	18	3 3/4	5 1/2	21	4 1/4	6 3/4	15	4	6	21	4 1/4	5 1/2	36		36		17	3 7/8	6				18	3 3/4	5 1/2	19	4 1/4	6 3/4	23	4	6 1/4	6 13/16	14'-5"	
15'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		29		14	3 7/8	6		N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	15'-5"	
16'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	33		23		11	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	16'-5"	
17'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	7	3 3/4	5 1/2	9	4 1/4	6 3/4	9	4	6	11	4 1/4	5 1/2	27		18		9	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	17'-5"	
18'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7				N/A	13	5	6 1/4	36		32		11	5 1/8	7 7/8		N/A		9	4 1/2	6		N/A		10	5 1/2	8 1/2	6 7/8	18'-5"
19'-5"	546	11	5 1/8	7 7/8	8	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7				N/A	11	5	6 1/4	36		28		10	5 1/8	7 7/8		N/A		7	4 1/2	6		N/A		10	5 1/2	8 1/2	6 7/8	19'-5"
20'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	6	4 1/2	6	9	5	7				N/A	8	5	6 1/4	35		24		8	5 1/8	7 7/8		N/A		5	4 1/2	6		N/A		8	5 1/2	8 1/2	6 7/8	20'-5"
21'-5"	546	8	5 1/8	7 7/8		N/A			N/A			N/A		7	5	7				N/A			31		21		21		7	5 1/8	7 7/8		N/A			N/A		7	5 1/2	8 1/2	6 7/8	21'-5"		

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Guide Construction								CA1245 - 0.022_0.062 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	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel		Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To		
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.		Dia.	Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)		Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	133	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	165	0	163	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A			8	5/8	4 3/8	12	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	195	0	193	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	225	0	223	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A			9	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	255	0	253	8'-5"				
9'-5"	1 3/16	0.407	CP0629	344	12	3/8	18	9	1/2	3 3/4	8	1/2	2 1/2	8	1/2	3 1/2	14	3/8	3 1/4	14	5/8	4 1/2	14	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	31	36	7/16" x 5/8"	30	23	11	9	3/16	302	285	253	283	9'-5"	
10'-5"	1 5/16	0.532	CP0629	344	12	3/8	14	8	5/8	4 1/2	N/A			8	5/8	4 3/8	8	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	19	33	7/16" x 5/8"	18	13	6	5	3/16	522	315	484	313	10'-5"	
11'-5"	1 1/2	0.719	CP0629	344	12	3/8	11	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	15	28	7/16" x 5/8"	13	9	5	N/A	3/16	646	344	617	343	11'-5"	
12'-5"	1 5/8	0.844	CP0629	445	10	1/2	18	11	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	19	29	9/16" x 3/4"	27	20	9	7	1/4	821	372	798	373	12'-5"							
13'-5"	2	1.156	CP0630	445	10	1/2	16	10	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			8	1/2	4 1/4	N/A			8	1/2	6 13/16	19	29	9/16" x 3/4"	26	20	9	6	1/4	846	402	829	403	13'-5"	
14'-5"	2	1.156	CP0630	445	10	1/2	13	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	23	9/16" x 3/4"	20	14	7	5	1/4	1075	432	1060	433	14'-5"	
15'-5"	2	1.156	CP0630	445	8	1/2	11	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	12	19	9/16" x 3/4"	15	10	6	N/A	1/4	1297	462	1281	463	15'-5"	
16'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	16	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	7	5	5/16	1513	492	1498	493	16'-5"	
17'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	6	5	5/16	1726	522	1711	523	17'-5"	
18'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6	N/A	5/16	1938	552	1923	554	18'-5"	
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	18	21	7/8" x 1"	36	32	14	10	3/8	1746	581	1731	581	19'-5"	
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	16	19	7/8" x 1"	36	29	13	9	3/8	1927	611	1912	611	20'-5"	
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	15	17	7/8" x 1"	34	25	12	8	3/8	2108	641	2093	642	21'-5"	

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 60 PSF - Continued																																									
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																									
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.	Through Bolting - Stainless Steel Max O.C.	Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.		
4'-5"	344*	N/A			21	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	N/A			19	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			19	2 3/8	4	19	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36	N/A			17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	14	2 1/4	4	25	3 1/2	4 3/4	34	N/A			15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	25	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*	N/A			16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	12	2 1/4	4	22	3 1/2	4 3/4	29	N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	26	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	22	2 1/2	4	5 3/4	8'-5"	
9'-5"	344	N/A			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	N/A			12	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/4	9'-5"	
10'-5"	344	N/A			12	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	17	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	36	N/A			6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	18	2 1/2	4	5 3/4	10'-5"	
11'-5"	344	N/A			10	2 3/8	4	10	2 3/8	4	12	2 1/2	4	15	2 1/2	4	5	2 1/4	4	13	3 1/2	4 3/4	29	N/A						12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	11'-5"	
12'-5"	445	18	3 7/8	6	15	3 5/8	6	15	3 3/4	6	17	3 3/4	5 1/2	20	4 1/4	6 3/4	15	4	6	20	4 1/4	5 1/2	36	16			3 7/8	6	N/A	17	3 3/4	5 1/2	17	4 1/4	6 3/4	23	4	6 1/4	5 13/16	12'-5"	
13'-5"	445	17	3 7/8	6	14	3 5/8	6	14	3 3/4	6	17	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	19	4 1/4	5 1/2	36	16			3 7/8	6	N/A	17	3 3/4	5 1/2	16	4 1/4	6 3/4	22	4	6 1/4	6 13/16	13'-5"	
14'-5"	445	14	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36	12			3 7/8	6	N/A	14	3 3/4	5 1/2	11	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"	
15'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	7	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	29	10			3 7/8	6	N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	15'-5"	
16'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	9	4 5/8	7	9	4 1/2	6	17	5	7	N/A			16	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	16'-5"		
17'-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	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	17'-5"		
18'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	5	4 1/2	6	9	5	7	N/A			7	5	6 1/4	34	8			5 1/8	7 7/8	N/A	5	4 1/2	6	N/A		8	5 1/2	8 1/2	6 7/8	18'-5"		
19'-5"	548	17	5 3/4	8 3/4	10	5 1/2	8	7	5 5/8	10	19	5 1/2	8	19	6 1/4	8 1/8	N/A			20	6 5/8	7 7/8	36	19			5 3/4	8 3/4	N/A	11	5 1/2	8	N/A		26	6 1/4	10	7 1/2	19'-5"		
20'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8		N/A		11	5 1/2	8	18	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36	17			5 3/4	8 3/4	N/A	10	5 1/2	8	N/A		24	6 1/4	10	7 1/2	20'-5"		
21'-5"	548	11	5 3/4	8 3/4	8	5 1/2	8		N/A		9	5 1/2	8	11	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36	12			5 3/4	8 3/4	N/A	8	5 1/2	8	N/A		11	6 1/4	10	7 1/2	21'-5"		

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	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 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 (+)
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	146	0	144	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	179	0	176	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	11	3/8	3 1/4	N/A	N/A	N/A	10	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	211	0	209	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	9	3/8	3 1/4	N/A	N/A	N/A	9	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	244	0	241	7'-5"	
8'-5"	1 1/16	0.282	CP0629	344	12	3/8	18	9	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	18	3/8	3 1/4	13	3/4	5 1/2	18	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	18	15	3/16	171	276	103	274	8'-5"	
9'-5"	1 3/16	0.407	CP0629	344	12	3/8	17	9	5/8	4 1/2	8	5/8	3 3/8	10	5/8	4 3/8	10	3/8	3 1/4	13	3/4	5 1/2	10	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	23	36	7/16" x 5/8"	22	17	8	6	3/16	419	309	368	307	9'-5"	
10'-5"	1 5/16	0.532	CP0629	344	12	3/8	12	12	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	5/8	4 3/8	10	3/8	3 1/4	13	3/4	5 1/2	10	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	15	27	7/16" x 5/8"	14	9	5	N/A	3/16	640	341	601	340	10'-5"
11'-5"	1 1/2	0.719	CP0629	344	10	3/8	10	10	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	13	24	7/16" x 5/8"	11	7	N/A	N/A	3/16	762	373	732	372	11'-5"
12'-5"	1 1/2	0.656	CP0630	DC4	12	1/2	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	8	1/2	6 1/4	14	14	9/16" x 3/4"	14	8	14	8	1/4	1021	375	994	374	12'-5"					
13'-5"	2	1.156	CP0630	445	10	1/2	14	9	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	26	9/16" x 3/4"	23	16	8	6	1/4	962	435	944	436	13'-5"					
14'-5"	2	1.156	CP0630	445	8	1/2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	13	21	9/16" x 3/4"	17	12	6	N/A	1/4	1204	467	1188	469	14'-5"					
15'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	13	20	11/16" x 7/8"	23	17	8	6	5/16	1439	500	1423	502	15'-5"					
16'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	11	17	11/16" x 7/8"	20	14	7	5	5/16	1670	533	1653	534	16'-5"					
17'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	10	15	11/16" x 7/8"	16	11	6	N/A	5/16	1897	565	1881	567	17'-5"					
18'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	18	21	7/8" x 1"	36	32	14	10	3/8	1720	596	1704	597	18'-5"					
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	16	19	7/8" x 1"	36	29	13	9	3/8	1913	629	1897	630	19'-5"					
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	15	17	7/8" x 1"	34	25	12	8	3/8	2107	662	2091	662	20'-5"					
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	14	16	7/8" x 1"	31	22	11	8	3/8	2301	695	2285	695	21'-5"					

CA1245 - 0.022, 0.062 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 T2Z			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt T2Z Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.						
4'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4	36	35		N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4	36	29		N/A			16	1 7/8	3 1/4	18	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31	24		N/A			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4	27	21		N/A			14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	7'-5"	
8'-5"	344	N/A			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	28	3 1/2	4 3/4	36	31		N/A			14	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	8'-5"	
9'-5"	344	N/A			13	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	19	2 1/2	4	11	2 1/4	4	17	3 1/2	4 3/4	36	36		N/A			8	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	20	2 1/2	4	5 3/4	9'-5"	
10'-5"	344	N/A			9	2 3/8	4	5	2 3/8	4	12	2 1/2	4	15	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	30	21		N/A				N/A	12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	10'-5"		
11'-5"	344	N/A			5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	11	3 1/2	4 3/4	23	15		N/A				N/A	5	2 1/2	4	5	2 1/2	4	6	3 1/4	5	5 3/4	11'-5"		
12'-5"	DC4	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	11	4	6	15	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	12'-5"			
13'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36	30		14	3 7/8	6	N/A	15	3 3/4	5 1/2	13	4 1/4	6 3/4	20	4	6 1/4	6 13/16	13'-5"			
14'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	32	22		10	3 7/8	6	N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"			
15'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7	N/A		17	5	6 1/4	36	35		16	5 1/8	7 7/8	N/A	10	4 1/2	6	N/A		18	5 1/2	8 1/2	6 7/8	15'-5"					
16'-5"	546	11	5 1/8	7 7/8	8	4 1/2	6	8	4 5/8	7	8	4 1/2	6	11	5	7	N/A		12	5	6 1/4	36	29		10	5 1/8	7 7/8	N/A	8	4 1/2	6	N/A		10	5 1/2	8 1/2	6 7/8	16'-5"					
17'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	6	4 1/2	6	9	5	7	N/A		8	5	6 1/4	35	24		8	5 1/8	7 7/8	N/A	6	4 1/2	6	N/A		8	5 1/2	8 1/2	6 7/8	17'-5"					
18'-5"	548	17	5 3/4	8 3/4	11	5 1/2	8	7	5 5/8	10	19	5 1/2	8	19	6 1/4	8 1/8	N/A		20	6 5/8	7 7/8	36	36		19	5 3/4	8 3/4	N/A	11	5 1/2	8	N/A		26	6 1/4	10	7 1/2	18'-5"					
19'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8	N/A		11	5 1/2	8	18	6 1/4	8 1/8	N/A		13	6 5/8	7 7/8	36	36		17	5 3/4	8 3/4	N/A	10	5 1/2	8	N/A		24	6 1/4	10	7 1/2	19'-5"						
20'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A		9	5 1/2	8	11	6 1/4	8 1/8	N/A		12	6 5/8	7 7/8	36	36		12	5 3/4	8 3/4	N/A	8	5 1/2	8	N/A		11	6 1/4	10	7 1/2	20'-5"						
21'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A		8	5 1/2	8	10	6 1/4	8 1/8	N/A		10	6 5/8	7 7/8	36	36		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"						

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

CA1245 - 0.022 0.062 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.								
4'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4	3/4	36		33	N/A			17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	4'-5"		
5'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	15	2 1/4	4	25	3 1/2	4	3/4	34		27	N/A			15	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*	N/A			16	2 3/8	4	16	2 3/8	3 3/4	16	2 1/2	4	22	2 1/2	4	12	2 1/4	4	21	3 1/2	4	3/4	29		22	N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	6'-5"		
7'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4	3/4	25		19	N/A			15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	7'-5"					
8'-5"	344	N/A			16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	21	2 1/2	4	14	2 1/4	4	20	3 1/2	4	3/4	36		36	N/A			11	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	8'-5"		
9'-5"	344	N/A			11	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	17	2 1/2	4	9	2 1/4	4	14	3 1/2	4	3/4	36		27	N/A						13	2 1/2	4	16	2 1/2	4	16	2 1/2	4	5 3/4	9'-5"		
10'-5"	445	17	3 7/8	6	12	3 5/8	6	14	3 3/4	6	16	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	18	4 1/4	5 1/2	36		36	15	3 7/8	6				N/A	17	3 3/4	5 1/2	15	4 1/4	6 3/4	21	4	6 1/4	6 13/16	10'-5"		
11'-5"	445	17	3 7/8	6	12	3 5/8	6	14	3 3/4	6	16	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	18	4 1/4	5 1/2	36		36	15	3 7/8	6				N/A	17	3 3/4	5 1/2	15	4 1/4	6 3/4	21	4	6 1/4	6 13/16	11'-5"		
12'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		29	13	3 7/8	6				N/A	15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	12'-5"		
13'-5"	445	14	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36		25	12	3 7/8	6				N/A	13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"		
14'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	7	3 3/4	5 1/2	9	4 1/4	6 3/4	9	4	6	12	4 1/4	5 1/2	36		19	9	3 7/8	6				N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"		
15'-5"	546	15	5 1/8	7 7/8	9	4 1/2	6	8	4 5/8	7	9	4 1/2	6	11	5	7	N/A		12	5	6 1/4	36		31	11	5 1/8	7 7/8				N/A	9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	15'-5"			
16'-5"	546	10	5 1/8	7 7/8	6	4 1/2	6	6	4 5/8	7	6	4 1/2	6	9	5	7	N/A		9	5	6 1/4	36		25	9	5 1/8	7 7/8				N/A	6	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	16'-5"			
17'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			8	5	7	N/A		N/A		N/A			31		21	7	5 1/8	7 7/8				N/A				N/A	7	5 1/2	8 1/2	6 7/8	17'-5"			
18'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8	N/A			N/A			11	5 1/2	8	18	6 1/4	8 1/8	N/A		N/A			36		36	17	5 3/4	8 3/4				N/A	10	5 1/2	8	N/A			24	6 1/4	10	7 1/2	18'-5"
19'-5"	548	11	5 3/4	8 3/4	8	5 1/2	8	N/A			N/A			9	5 1/2	8	11	6 1/4	8 1/8	N/A		N/A			36		36	12	5 3/4	8 3/4				N/A	8	5 1/2	8	N/A			11	6 1/4	10	7 1/2	19'-5"
20'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A		N/A			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			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A		N/A			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	21'-5"



P: 800.225.6729
F: 513.440.4853

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

DWG NO:
ES-16-142-CLO

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																																												
Guide Construction								Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)																								
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	180	0	177	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	220	0	217	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A			N/A			9	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	260	0	257	6'-5"
8'-5"	1 1/16	0.282	CP0629	344	12	3/8	15	13	3/4	5 1/2	N/A	8	5/8	4 3/8	13	1/2	4 1/4	N/A	10	1/2	4 1/4	N/A	10	1/2	4 1/4	N/A	8	3/8	5 3/4	18	29	7/16" x 5/8"	17	12	6	5	3/16	531	340	457	338	8'-5"		
9'-5"	1 3/8	0.531	CP0630	445	10	1/2	16	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			N/A	8	1/2	6 13/16	16	23	9/16" x 3/4"	22	16	8	5	1/4	994	418	954	419	9'-5"		
10'-5"	1 3/8	0.531	CP0630	445	10	1/2	16	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			N/A	8	1/2	6 13/16	16	23	9/16" x 3/4"	22	16	8	5	1/4	994	418	954	419	10'-5"		
11'-5"	1 1/2	0.656	CP0630	445	8	1/2	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	1/2	6 13/16	13	20	9/16" x 3/4"	17	12	6	N/A	1/4	1201	458	1167	459	11'-5"		
12'-5"	1 3/4	0.906	CP0630	445	8	1/2	12	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	1/2	6 13/16	13	20	9/16" x 3/4"	16	11	6	N/A	1/4	1238	497	1212	498	12'-5"		
13'-5"	2	1.156	CP0630	445	8	1/2	11	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	1/2	6 13/16	12	19	9/16" x 3/4"	15	10	6	N/A	1/4	1309	535	1289	537	13'-5"		
14'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	15	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	5/8	6 7/8	11	18	11/16" x 7/8"	21	15	7	5	5/16	1591	575	1571	577	14'-5"		
15'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	5/8	6 7/8	10	15	11/16" x 7/8"	17	12	6	N/A	5/16	1866	616	1847	618	15'-5"		
16'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	18	21	7/8" x 1"	36	32	14	10	3/8	1720	654	1700	654	16'-5"		
17'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	16	18	7/8" x 1"	36	28	12	9	3/8	1951	694	1932	695	17'-5"		
18'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	16	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	14	16	7/8" x 1"	33	24	11	8	3/8	2182	734	2163	735	18'-5"		
19'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	13	15	7/8" x 1"	29	21	10	7	3/8	2414	775	2395	775	19'-5"		
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	12	13	7/8" x 1"	26	18	9	6	3/8	2646	815	2628	816	20'-5"		
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	11	12	7/8" x 1"	23	16	8	6	3/8	2881	855	2862	856	21'-5"		

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF - Continued																																										
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																										
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.	Through Bolting - Stainless Steel Max O.C.	Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To	
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.						
4'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4	36		28	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 3/4	4'-5"
5'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	22	3 1/2	4 3/4	30		23	N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	25		20	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	6'-5"
8'-5"	344	N/A			10	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	16	2 1/2	4	8	2 1/4	4	13	3 1/2	4 3/4	36		29	N/A						13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 3/4	8'-5"
9'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		31	13	3 7/8	6		N/A		15	3 3/4	5 1/2	11	4 1/4	6 3/4	18	4	6 1/4	6 13/16	9'-5"
10'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		31	13	3 7/8	6		N/A		15	3 3/4	5 1/2	11	4 1/4	6 3/4	18	4	6 1/4	6 13/16	10'-5"
11'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	34		23	10	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	11'-5"
12'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	31		21	10	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	12'-5"
13'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	7	3 3/4	5 1/2	9	4 1/4	6 3/4	9	4	6	12	4 1/4	5 1/2	28		19	9	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"
14'-5"	546	11	5 1/8	7 7/8	9	4 1/2	6	8	4 5/8	7	8	4 1/2	6	11	5	7		N/A		12	5	6 1/4	36		30	11	5 1/8	7 7/8		N/A		8	4 1/2	6		N/A		10	5 1/2	8 1/2	6 7/8	14'-5"
15'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	6	4 1/2	6	9	5	7		N/A		8	5	6 1/4	35		24	8	5 1/8	7 7/8		N/A		6	4 1/2	6		N/A		8	5 1/2	8 1/2	6 7/8	15'-5"
16'-5"	548	17	5 3/4	8 3/4	10	5 1/2	8	7	5 5/8	10	19	5 1/2	8	19	6 1/4	8 1/8		N/A		20	6 5/8	7 7/8	36		36	18	5 3/4	8 3/4		N/A		11	5 1/2	8		N/A		26	6 1/4	10	7 1/2	16'-5"
17'-5"	548	12	5 3/4	8 3/4	8	5 1/2	8		N/A		10	5 1/2	8	17	6 1/4	8 1/8		N/A		13	6 5/8	7 7/8	36		36	16	5 3/4	8 3/4		N/A		9	5 1/2	8		N/A		23	6 1/4	10	7 1/2	17'-5"
18'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8		N/A		8	5 1/2	8	10	6 1/4	8 1/8		N/A		11	6 5/8	7 7/8	36		36	11	5 3/4	8 3/4		N/A		7	5 1/2	8		N/A		10	6 1/4	10	7 1/2	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		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	19'-5"
20'-5"	648	7	5 3/4	8 3/4		N/A			N/A		5	5 1/2	8	7	6 1/4	8 1/8		N/A			N/A		36		29	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		5	6 1/4	8 1/8		N/A			N/A		36		26		N/A			N/A			N/A			N/A		5	6 1/4	10	7 1/2	21'-5"

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.022_0.062 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 TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt				Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Embed	Max O.C.	Dia.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	203	0	199	4'-5"			
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A			N/A			9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	248	0	244	5'-5"			
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A			8	3/8	3 1/4	N/A			11	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	293	0	289	6'-5"						
8'-5"	1 1/16	0.282	CP0629	344	10	3/8	11	9	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			N/A			8	3/8	5 3/4	13	21	7/16" x 5/8"	10	7	N/A	N/A	3/16	771	383	693	381	8'-5"				
9'-5"	1 1/4	0.406	CP0630	445	10	1/2	16	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			8	1/2	6 13/16	16	22	9/16" x 3/4"	22	15	8	5	1/4	1000	426	947	426	9'-5"				
10'-5"	1 3/8	0.531	CP0630	445	8	1/2	13	N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	13	19	9/16" x 3/4"	16	11	6	N/A	1/4	1233	471	1189	472	10'-5"				
11'-5"	1 1/2	0.656	CP0630 & CP0647	446	8	5/8	18	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	17	8	6	5/16	1446	515	1409	517	11'-5"				
12'-5"	1 3/4	0.906	CP0630 & CP0647	446	8	5/8	16	N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1473	559	1445	560	12'-5"				
13'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	15	N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	19	11/16" x 7/8"	21	15	7	5	5/16	1541	602	1518	604	13'-5"				
14'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	15	11/16" x 7/8"	17	12	6	N/A	5/16	1849	647	1827	650	14'-5"				
15'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	18	21	7/8" x 1"	36	32	14	10	3/8	1722	691	1700	691	15'-5"				
16'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	16	18	7/8" x 1"	36	27	12	9	3/8	1979	736	1958	736	16'-5"				
17'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	15	N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	32	23	11	8	3/8	2235	781	2214	782	17'-5"				
18'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	12	14	7/8" x 1"	28	20	10	7	3/8	2490	826	2470	827	18'-5"				
19'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13	N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	13	7/8" x 1"	25	17	9	6	3/8	2747	872	2726	873	19'-5"				
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12	N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	10	12	7/8" x 1"	22	15	8	6	3/8	3006	917	2985	918	20'-5"				

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 90 PSF - Continued																																										
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																										
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.	Through Bolting - Stainless Steel Max O.C.	Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To	
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			
4'-5"	344*	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	33		25	N/A			15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4	27		21	N/A			14	1 7/8	3 1/4	15	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			14	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	17	3 1/2	4 3/4	22		17	N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	6'-5"
8'-5"	344	N/A			5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	10	3 1/2	4 3/4	25		16	N/A					5	2 1/2	4	5	2 1/2	4	6	3 1/4	5	5 3/4	8'-5"	
9'-5"	445	14	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36		31	12	3 7/8	6	N/A		14	3 3/4	5 1/2	11	4 1/4	6 3/4	7	4	6 1/4	6 13/16	9'-5"	
10'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	33		23	10	3 7/8	6	N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	10'-5"	
11'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7				16	5	6 1/4	36		36	16	5 1/8	7 7/8	N/A		10	4 1/2	6			17	5 1/2	8 1/2	6 7/8	11'-5"		
12'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	9	4 5/8	7	9	4 1/2	6	17	5	7				16	5	6 1/4	36		34	15	5 1/8	7 7/8	N/A		9	4 1/2	6			10	5 1/2	8 1/2	6 7/8	12'-5"		
13'-5"	546	15	5 1/8	7 7/8	9	4 1/2	6	8	4 5/8	7	9	4 1/2	6	16	5	7				12	5	6 1/4	36		31	11	5 1/8	7 7/8	N/A		9	4 1/2	6			10	5 1/2	8 1/2	6 7/8	13'-5"		
14'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	6	4 1/2	6	9	5	7				8	5	6 1/4	35		24	8	5 1/8	7 7/8	N/A		6	4 1/2	6			8	5 1/2	8 1/2	6 7/8	14'-5"		
15'-5"	548	17	5 3/4	8 3/4	10	5 1/2	8	7	5 5/8	10	18	5 1/2	8	19	6 1/4	8 1/8				20	6 5/8	7 7/8	36		36	18	5 3/4	8 3/4	N/A		11	5 1/2	8			26	6 1/4	10	7 1/2	15'-5"		
16'-5"	548	12	5 3/4	8 3/4	8	5 1/2	8			N/A		10	5 1/2	8	17	6 1/4	8 1/8				13	6 5/8	7 7/8	36		36	12	5 3/4	8 3/4	N/A		9	5 1/2	8			11	6 1/4	10	7 1/2	16'-5"	
17'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8			N/A		8	5 1/2	8	10	6 1/4	8 1/8				10	6 5/8	7 7/8	36		36	11	5 3/4	8 3/4	N/A		7	5 1/2	8			10	6 1/4	10	7 1/2	17'-5"	
18'-5"	648	8	5 3/4	8 3/4						N/A		6	5 1/2	8	8	6 1/4	8 1/8				6	6 5/8	7 7/8	36		31	9	5 3/4	8 3/4	N/A		5	5 1/2	8			8	6 1/4	10	7 1/2	18'-5"	
19'-5"	648	7	5 3/4	8 3/4						N/A					6	6 1/4	8 1/8						N/A	36		27	7	5 3/4	8 3/4			N/A				6	6 1/4	10	7 1/2	19'-5"		
20'-5"	648	5	5 3/4	8 3/4						N/A												N/A	35		24			N/A			N/A						6	6 1/4	10	7 1/2	20'-5"	

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

CA1245 - 0.022, 0.062 Minimum Thickness Galvanized or Stainless Steel - 100 PSF																																												
Guide Construction								Filled CMU																				Steel (Wall anchors are the same diameter as assembly fasteners)																
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	225	0	221	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A			N/A			8	3/8	3 1/4	N/A			11	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	275	0	271	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	325	0	321	6'-5"
8'-5"	1 1/8	0.281	CP0630	445	10	1/2	17	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	16	21	9/16" x 3/4"	22	15	7	5	1/4	1001	424	930	424	8'-5"
9'-5"	1 1/4	0.406	CP0630	445	8	1/2	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	13	18	9/16" x 3/4"	16	11	6	N/A	1/4	1237	474	1180	474	9'-5"
10'-5"	1 3/8	0.531	CP0630 & CP0647	446	8	5/8	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1472	523	1425	525	10'-5"
11'-5"	1 1/2	0.656	CP0630 & CP0647	546	8	5/8	15	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	7	5	5/16	1691	573	1651	574	11'-5"
12'-5"	1 3/4	0.906	CP0630 & CP0647	546	6	5/8	14	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	7	5	5/16	1708	621	1677	623	12'-5"
13'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	16	11/16" x 7/8"	18	13	6	N/A	5/16	1772	669	1748	671	13'-5"
14'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	17	19	7/8" x 1"	36	29	13	9	3/8	1868	719	1839	720	14'-5"
15'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	16	18	7/8" x 1"	36	28	12	9	3/8	1958	768	1935	768	15'-5"
16'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	32	23	11	8	3/8	2239	818	2215	818	16'-5"
17'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	12	14	7/8" x 1"	28	20	10	7	3/8	2518	868	2495	869	17'-5"
18'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	13	7/8" x 1"	24	17	9	6	3/8	2799	918	2776	919	18'-5"
19'-5"	2 1/2	1.656	CP0630 & CP0647	DC6	5	3/4	11	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	10	11	7/8" x 1"	21	14	8	5	3/8	3081	969	3058	970	19'-5"

CA1245 - 0.022 0.062 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	Max O.C.	Embed	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"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	12	2 1/4	4	22	3 1/2	4 3/4	29		23		N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			15	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	24		18		N/A			13	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	21	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	15	3 1/2	4 3/4	20		16		N/A				N/A		13	2 1/2	4	5	2 1/2	4	19	2 1/2	4	5 3/4	6'-5"	
8'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	15	4 1/4	5 1/2	36		32		12	3 7/8	6		N/A		13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	8'-5"	
9'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	7	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	12	4 1/4	5 1/2	33		23		10	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	9'-5"	
10'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A			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 7/8	10'-5"	
11'-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		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	11'-5"	
12'-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	12'-5"	
13'-5"	546	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	6	4 1/2	6	10	5	7	N/A			9	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	13'-5"	
14'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8		N/A		11	5 1/2	8	18	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36		36		17	5 3/4	8 3/4		N/A		10	5 1/2	8		N/A		24	6 1/4	10	7 1/2	14'-5"	
15'-5"	548	12	5 3/4	8 3/4	8	5 1/2	8		N/A		10	5 1/2	8	17	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36		36		12	5 3/4	8 3/4		N/A		9	5 1/2	8		N/A		11	6 1/4	10	7 1/2	15'-5"	
16'-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		35		10	5 3/4	8 3/4		N/A		7	5 1/2	8		N/A		9	6 1/4	10	7 1/2	16'-5"	
17'-5"	648	8	5 3/4	8 3/4		N/A			N/A		6	5 1/2	8	8	6 1/4	8 1/8	N/A			5	6 5/8	7 7/8	36		30		9	5 3/4	8 3/4		N/A			N/A		8	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		26		7	5 3/4	8 3/4		N/A			N/A		6	6 1/4	10	7 1/2	18'-5"				
19'-5"	DC6	10	5 3/4	8 3/4	7	5 1/2	8		N/A		9	5 1/2	8	9	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		35		10	5 3/4	8 3/4	8	4 1/2	6		8	5 1/2	8		N/A		9	6 1/4	10	9 1/4	19'-5"

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CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 120 PSF																																												
Guide Construction								Filled CMU																			Steel (Wall anchors are the same diameter as assembly fasteners)																	
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T2Z Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A			N/A			8	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	270	0	265	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	32	36	3/16	0	330	0	325	5'-5"
8'-5"	1 1/8	0.281	CP0630 & CP0647	445	8	1/2	12		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	10	15	9/16" x 3/4"	12	8	5	N/A	1/4	1488	509	1406	510	8'-5"
9'-5"	1 1/4	0.406	CP0630 & CP0647	446	6	5/8	16		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	11	16	11/16" x 7/8"	19	13	7	5	5/16	1711	569	1646	570	9'-5"
10'-5"	1 3/8	0.531	CP0630 & CP0647	546	6	5/8	14		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	14	11/16" x 7/8"	16	11	6	N/A	5/16	1951	628	1896	630	10'-5"
11'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	18		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	32	24	11	8	3/8	2203	690	2138	690	11'-5"
12'-5"	1 3/4	0.906	CP0630 & CP0647	548	6	3/4	17		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	32	24	11	8	3/8	2195	748	2144	748	12'-5"
13'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	16		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	31	23	11	8	3/8	2252	806	2210	806	13'-5"
14'-5"	2 1/4	1.406	CP0630 & CP0647	648	6	3/4	15		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	15	7/8" x 1"	30	22	10	7	3/8	2335	863	2301	864	14'-5"
15'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	14	7/8" x 1"	29	20	10	7	3/8	2431	921	2404	922	15'-5"
16'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	13	7/8" x 1"	25	17	9	6	3/8	2758	981	2731	982	16'-5"
17'-5"	2 1/2	1.656	CP0630 & CP0647	DC6	5	3/4	11		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	10	11	7/8" x 1"	21	14	8	5	3/8	3086	1042	3059	1043	17'-5"

CA1245 - 0.022_0.062 Minimum Thickness Galvanized or Stainless Steel - 120 PSF - Continued																																													
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																													
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt T2Z			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt T2Z Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To		
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.								
4'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	24		19		N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	4'-5"		
5'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	15	3 1/2	4 3/4	20		15		N/A			N/A			13	2 1/2	4	5	2 1/2	4	19	2 1/2	4	5 3/4	5'-5"		
8'-5"	445	8	3 7/8	6	N/A			6	3 3/4	6	5	3	5	9	4 1/4	6 3/4	7	4	6	5	4 1/4	5 1/2	26		17		7	3 7/8	6	N/A			6	3 3/4	5 1/2	7	4 1/4	6 3/4	5	4	6 1/4	6 13/16	8'-5"		
9'-5"	446	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	7	4 1/2	6	10	5	7	N/A			10	5	6 1/4	36		30		9	5 1/8	7 7/8	N/A			7	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	9'-5"		
10'-5"	546	8	5 1/8	7 7/8	5	4 1/2	6	N/A			5	4 1/2	6	8	5	7	N/A			5	5	6 1/4	35		24		7	5 1/8	7 7/8	N/A			5	3 3/4	5 1/2	N/A			7	5 1/2	8 1/2	6 7/8	10'-5"		
11'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			11	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4	N/A			7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	11'-5"		
12'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			11	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4	N/A			7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	12'-5"		
13'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		36		10	5 3/4	8 3/4	N/A			7	5 1/2	8	N/A			9	6 1/4	10	7 1/2	13'-5"		
14'-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	14'-5"		
15'-5"	648	8	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			6	6 5/8	7 7/8	36		31		9	5 3/4	8 3/4	N/A			5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	15'-5"		
16'-5"	648	6	5 3/4	8 3/4	N/A			N/A			N/A			6	6 1/4	8 1/8	N/A			N/A			36		26		7	5 3/4	8 3/4	N/A			N/A			6	6 1/4	10	7 1/2	16'-5"					
17'-5"	DC6	10	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	9	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		35		10	5 3/4	8 3/4	8			4 1/2	6	8	5 1/2	8	N/A			9	6 1/4	10	9 1/4	17'-5"



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

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

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																																													
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																			
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt				Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	16	3/8	1 7/8	18	3/8	2 3/8	18	3/8	2 5/8	13	3/8	1 5/8	20	3/8	2 3/4	14	3/8	2	18	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	45	0	44	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	1 7/8	15	3/8	2 3/8	15	3/8	2 5/8	10	3/8	1 5/8	16	3/8	2 3/4	11	3/8	2	14	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	55	0	54	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	1 7/8	13	3/8	2 3/8	12	3/8	2 5/8	9	3/8	1 5/8	14	3/8	2 3/4	9	3/8	2	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	65	0	64	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	1 7/8	11	3/8	2 3/8	11	3/8	2 5/8	31	3/8	3 1/4	12	3/8	2 3/4	8	3/8	2	10	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	75	0	74	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	1 7/8	10	3/8	2 3/8	9	3/8	2 5/8	27	3/8	3 1/4	15	1/2	3 1/2	27	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	85	0	84	8'-5"	
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	24	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	95	0	94	9'-5"	
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	3	8	3/8	2 3/8	9	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	105	0	104	10'-5"	
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	115	0	114	11'-5"	
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	18	3/8	3 1/4	14	5/8	4 1/2	18	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	125	0	124	12'-5"	
13'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	134	13'-5"	
14'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	145	0	144	14'-5"	
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	12	3/8	3	9	3/8	2 3/8	9	3/8	2 5/8	24	3/8	3 1/4	14	1/2	3 1/2	24	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	33	15	13	3/16	219	155	206	154	15'-5"
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	16	3/8	3 1/4	13	5/8	4 1/2	16	3/8	3 1/4	10	5/8	4 1/2	8	3/8	5 3/4	28	36	7/16" x 5/8"	27	21	10	8	3/16	349	165	338	164	16'-5"	
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	11	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	21	36	7/16" x 5/8"	20	15	7	6	3/16	472	175	461	175	17'-5"	
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	9	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	8	3/8	3 1/4	N/A	N/A	N/A	13	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	17	32	7/16" x 5/8"	16	11	6	5	3/16	589	185	579	185	18'-5"	
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	13	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	12	1/2	4 1/4	N/A	N/A	N/A	10	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	14	27	7/16" x 5/8"	12	8	5	N/A	3/16	702	195	692	195	19'-5"	
20'-5"	1 1/2	0.719	CP0629	344	10	3/8	11	11	3/4	5 1/2	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	12	23	7/16" x 5/8"	10	6	N/A	N/A	3/16	811	205	802	205	20'-5"	
21'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	15	1/2	4 1/4	N/A	N/A	N/A	13	1/2	4 1/4	N/A	N/A	N/A	8	1/2	6 13/16	25	36	9/16" x 3/4"	34	26	12	9	1/4	641	214	635	214	21'-5"	

CA1245 - 0.0236_0.062 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"	344*	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		33	1 7/8	3 1/4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			34	2 3/8	4	33	2 3/8	3 3/4	34	2 1/2	4	36	2 1/2	4	33	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		29	1 7/8	3 1/4	33	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			31	2 3/8	4	30	2 3/8	3 3/4	31	2 1/2	4	36	2 1/2	4	30	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		27	1 7/8	3 1/4	31	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*	N/A			29	2 3/8	4	28	2 3/8	3 3/4	29	2 1/2	4	36	2 1/2	4	28	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		25	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*	N/A			27	2 3/8	4	26	2 3/8	3 3/4	27	2 1/2	4	36	2 1/2	4	26	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		23	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	8'-5"	
9'-5"	344*	N/A			26	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	34	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	36	2 1/2	4	5 3/4	9'-5"	
10'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	32	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		21	1 7/8	3 1/4	24	2 1/2	4	33	2 1/2	4	34	2 1/2	4	5 3/4	10'-5"	
11'-5"	344*	N/A			23	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	30	2 1/2	4	22	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	11'-5"	
12'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	12'-5"	
13'-5"	344*	N/A			21	2 3/8	4	21	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	13'-5"	
14'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4	36		35		N/A		18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	14'-5"	
15'-5"	344	N/A			22	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	29	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		17	1 7/8	3 1/4	24	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	15'-5"	
16'-5"	344	N/A			18	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	24	3 1/2	4 3/4	36		36		N/A		13	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	16'-5"	
17'-5"	344	N/A			15	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	13	2 1/4	4	19	3 1/2	4 3/4	36		33		N/A		9	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	17'-5"	
18'-5"	344	N/A			12	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	35		25		N/A		6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	19	2 1/2	4	5 3/4	18'-5"	
19'-5"	344	N/A			10	2 3/8	4	10	2 3/8	3 3/4	13	2 1/2	4	16	2 1/2	4	8	2 1/4	4	13	3 1/2	4 3/4	28		19		N/A		N/A		12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	19'-5"		
20'-5"	344	N/A			5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	11	3 1/2	4 3/4	23		15		N/A		5	2 1/2	4	5	2 1/2	4	16	3 1/4	5	5 3/4	20'-5"				
21'-5"	445	22	3 7/8	6	19	3 5/8	6	18	3 3/4	6	21	3 3/4	5 1/2	25	4 1/4	6 3/4	20	4	6	27	4 1/4	5 1/2	23		36		22	3 7/8	6	14	2 1/2	4	21	3 3/4	5 1/2	23	4 1/4	6 3/4	28	4	6 1/4	6 13/16	21'-5"

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CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																																												
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	11	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	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	68	0	66	4'-5"		
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	28	3/8	3 1/4	16	1/2	3 1/2	28	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	83	0	81	5'-5"		
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	23	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	98	0	96	6'-5"		
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	113	0	111	7'-5"		
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	18	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	128	0	126	8'-5"		
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	143	0	141	9'-5"		
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	158	0	156	10'-5"		
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A			9	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	173	0	171	11'-5"		
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	188	0	186	12'-5"			
13'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	21	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	32	15	12	3/16	217	202	198	201	13'-5"
14'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	1/2	3 3/4	8	5/8	3 3/8	10	5/8	4 3/8	13	3/8	3 1/4	14	3/4	5 1/2	13	3/8	3 1/4	N/A		8	3/8	5 3/4	24	36	7/16" x 5/8"	23	18	8	7	3/16	406	217	389	217	14'-5"	
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	8	5/8	4 1/2	N/A			8	3/4	5 1/4	8	3/8	3 1/4	N/A		12	1/2	4 1/4	N/A		8	3/8	5 3/4	17	32	7/16" x 5/8"	16	11	6	5	3/16	581	232	565	232	15'-5"		
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	11	12	3/4	5 1/2	N/A			N/A			10	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	3/8	5 3/4	13	25	7/16" x 5/8"	11	7	N/A		N/A	3/16	747	247	732	247	16'-5"	
17'-5"	2	1.219	CP0629	445	12	1/2	18	9	5/8	4 1/2	N/A			8	3/4	5 1/4	16	1/2	4 1/4	N/A		13	1/2	4 1/4	N/A		8	1/2	6 13/16	27	36	9/16" x 3/4"	36	28	13	9	1/4	599	261	590	261	17'-5"		
18'-5"	2	1.219	CP0629	445	12	1/2	18	13	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A		10	1/2	4 1/4	N/A		8	1/2	6 13/16	22	34	9/16" x 3/4"	30	23	11	7	1/4	727	276	718	276	18'-5"		
19'-5"	2	1.219	CP0629	445	10	1/2	18	11	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	1/2	6 13/16	19	29	9/16" x 3/4"	26	19	9	6	1/4	852	291	843	291	19'-5"		
20'-5"	2	1.156	CP0630	445	10	1/2	16	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A		N/A		N/A		8	1/2	6 13/16	16	25	9/16" x 3/4"	21	15	7	5	1/4	1009	306	1000	307	20'-5"			
21'-5"	2	1.156	CP0630	445	8	1/2	14	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A		N/A		N/A		8	1/2	6 13/16	14	22	9/16" x 3/4"	18	13	7	5	1/4	1131	321	1122	322	21'-5"			

CA1245 - 0.0236_0.062 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 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"	344*		N/A		31	2 3/8	4	29	2 3/8	3 3/4	31	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		27	1 7/8	3 1/4	30	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*		N/A		28	2 3/8	4	27	2 3/8	3 3/4	28	2 1/2	4	36	2 1/2	4	27	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		24	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*		N/A		25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	33	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	35	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*		N/A		23	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*		N/A		22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	8'-5"	
9'-5"	344*		N/A		21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	20	2 1/4	4	34	3 1/2	4 3/4	36		36		N/A		18	1 7/8	3 1/4	20	2 1/2	4	29	2 1/2	4	29	2 1/2	4	5 3/4	9'-5"	
10'-5"	344*		N/A		20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36		33		N/A		17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	10'-5"	
11'-5"	344*		N/A		19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	28	3 1/2	4 3/4	36		30		N/A		16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	11'-5"	
12'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35		27		N/A		16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	12'-5"	
13'-5"	344		N/A		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 3/4	13'-5"	
14'-5"	344		N/A		16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	21	2 1/2	4	14	2 1/4	4	20	3 1/2	4 3/4	36		36		N/A		11	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	14'-5"	
15'-5"	344		N/A		12	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	17	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	35		24		N/A		6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	18	2 1/2	4	5 3/4	15'-5"	
16'-5"	344		N/A		8	2 3/8	4	5	2 3/8	4	11	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	25		17		N/A			N/A		11	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 3/4	16'-5"	
17'-5"	445	22	3 7/8	6	19	3 5/8	6	18	3 3/4	6	21	3 3/4	5 1/2	25	4 1/4	6 3/4	20	4	6	27	4 1/4	5 1/2	36		36		22	3 7/8	6	15	2 1/2	4	21	3 3/4	5 1/2	23	4 1/4	6 3/4	28	4	6 1/4	6 13/16	17'-5"
18'-5"	445	20	3 7/8	6	17	3 5/8	6	16	3 3/4	6	19	3 3/4	5 1/2	23	4 1/4	6 3/4	17	4	6	23	4 1/4	5 1/2	36		36		19	3 7/8	6	11	2 1/2	4	19	3 3/4	5 1/2	21	4 1/4	6 3/4	25	4	6 1/4	6 13/16	18'-5"
19'-5"	445	18	3 7/8	6	15	3 5/8	6	15	3 3/4	6	17	3 3/4	5 1/2	21	4 1/4	6 3/4	15	4	6	20	4 1/4	5 1/2	36		36		17	3 7/8	6		N/A		18	3 3/4	5 1/2	18	4 1/4	6 3/4	23	4	6 1/4	6 13/16	19'-5"
20'-5"	445	16	3 7/8	6	11	3 5/8	6	13	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36		36			3 7/8	6		N/A		16	3 3/4	5 1/2	13	4 1/4	6 3/4	21	4	6 1/4	6 13/16	20'-5"
21'-5"	445	14	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36		26		12	3 7/8	6		N/A		14	3 3/4	5 1/2	11	4 1/4	6 3/4	7	4	6 1/4	6 13/16	21'-5"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0236 0.062 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																																														
Guide Construction								Filled CMU																				Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To		
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	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	25	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	90	0	88	4'-5"		
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	12	1/2	3 1/2	21	3/8	3 1/4	11	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	110	0	108	5'-5"		
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	130	0	128	6'-5"		
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	15	3/8	3 1/4	15	3/4	5 1/2	15	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	150	0	148	7'-5"		
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A			10	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	170	0	168	8'-5"		
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A			8	5/8	4 3/8	12	3/8	3 1/4	N/A			12	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	190	0	188	9'-5"		
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	210	0	208	10'-5"		
11'-5"	1 5/16	0.532	CP0629	344	12	3/8	18	12	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	23	3/8	3 1/4	13	5/8	4 1/2	23	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	19	16	3/16	160	230	129	229	11'-5"		
12'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	17	3/8	3 1/4	14	5/8	4 1/2	17	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	35	36	7/16" x 5/8"	33	26	12	10	3/16	273	250	248	249	12'-5"		
13'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	9	5/8	4 1/2	N/A			8	5/8	4 3/8	9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	19	35	7/16" x 5/8"	18	13	6	5	3/16	512	269	490	269	13'-5"		
14'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A			8	3/4	5 1/4	15	1/2	4 1/4	N/A			12	1/2	4 1/4	N/A			8	1/2	6 13/16	27	36	9/16" x 3/4"	36	28	13	9	1/4	600	308	588	308	14'-5"		
15'-5"	2	1.219	CP0629	445	12	1/2	18	8	5/8	4 1/2	N/A			8	3/4	5 1/4	15	1/2	4 1/4	N/A			12	1/2	4 1/4	N/A			8	1/2	6 13/16	27	36	9/16" x 3/4"	36	28	13	9	1/4	600	308	588	308	15'-5"		
16'-5"	2	1.219	CP0629	445	10	1/2	18	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	21	32	9/16" x 3/4"	28	22	10	7	1/4	769	327	757	328	16'-5"		
17'-5"	2	1.156	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	16	26	9/16" x 3/4"	22	16	8	5	1/4	968	348	956	349	17'-5"		
18'-5"	2	1.156	CP0630	445	8	1/2	14	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	14	22	9/16" x 3/4"	19	13	7	5	1/4	1128	368	1117	369	18'-5"		
19'-5"	2	1.156	CP0630	445	8	1/2	12	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	12	19	9/16" x 3/4"	15	10	6	N/A	1/4	1286	388	1275	389	19'-5"		
20'-5"	2	1.156	CP0630	446	8	5/8	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	13	20	11/16" x 7/8"	23	17	8	6	5/16	1441	408	1430	409	20'-5"		
21'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	16	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	11	18	11/16" x 7/8"	21	15	7	5	5/16	1596	428	1585	429	21'-5"		

CA1245 - 0.0236 0.062 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.					
4'-5"	344*	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 3/4	4'-5"
5'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			21	1 7/8	3 1/4	23	2 1/2	4	33	2 1/2	4	33	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	27	2 1/2	4	19	2 1/4	4	33	3 1/2	4 3/4	36	34	N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	28	2 1/2	4	5 3/4	7'-5"
8'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	29	3 1/2	4 3/4	36	30	N/A			16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	27	2 1/2	4	5 3/4	8'-5"
9'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35	27	N/A			16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	9'-5"
10'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31	24	N/A			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	10'-5"
11'-5"	344	N/A			23	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	29	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			18	1 7/8	3 1/4	24	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	11'-5"
12'-5"	344	N/A			19	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	24	2 1/2	4	18	2 1/4	4	27	3 1/2	4 3/4	36	36	N/A			14	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	12'-5"
13'-5"	344	N/A			13	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	18	2 1/2	4	11	2 1/4	4	16	3 1/2	4 3/4	36	28	N/A			7	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	13'-5"
14'-5"	445	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	27	4 1/4	5 1/2	36	36	21	3 7/8	6	14	2 1/2	4	21	3 3/4	5 1/2	23	4 1/4	6 3/4	27	4	6 1/4	6 13/16	14'-5"
15'-5"	445	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	27	4 1/4	5 1/2	36	36	21	3 7/8	6	14	2 1/2	4	21	3 3/4	5 1/2	23	4 1/4	6 3/4	27	4	6 1/4	6 13/16	15'-5"
16'-5"	445	19	3 7/8	6	16	3 5/8	6	15	3 3/4	6	18	3 3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	21	4 1/4	5 1/2	36	36	18	3 7/8	6	9	2 1/2	4	18	3 3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	16'-5"
17'-5"	445	16	3 7/8	6	11	3 5/8	6	13	3 3/4	6	15	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36	31	14	3 7/8	6	N/A	N/A	16	3 3/4	5 1/2	14	4 1/4	6 3/4	21	4	6 1/4	6 13/16	17'-5"	
18'-5"	445	14	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36	25	12	3 7/8	6	N/A	N/A	13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	18'-5"	
19'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	13	4 1/4	5 1/2	30	21	10	3 7/8	6	N/A	N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	19'-5"	
20'-5"	446	17	5 1/8	7 7/8	11	4 1/2	6	10	4 5/8	7	10	4 1/2	6	18	5	7	N/A	N/A	17	5	6 1/4	36	36	16	5 1/8	7 7/8	N/A	N/A	10	4 1/2	6	N/A	N/A	19	5 1/2	8 1/2	6 7/8	20	5'-5"		
21'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A	N/A	13	5	6 1/4	36	36	11	5 1/8	7 7/8	N/A	N/A	9	4 1/2	6	N/A	N/A	10	5 1/2	8 1/2	6 7/8	21'-5"			

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0236_0.062 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 TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt				Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	113	0	110	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	9	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	138	0	135	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	163	0	160	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	188	0	185	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A		10	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	213	0	210	8'-5"		
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	9	3/8	3 1/4	N/A		9	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	238	0	235	9'-5"		
10'-5"	1 3/16	0.407	CP0629	344	12	3/8	18	8	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	17	3/8	3 1/4	15	5/8	4 1/2	17	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	28	13	11	3/16	245	262	201	261	10'-5"
11'-5"	1 5/16	0.532	CP0629	344	12	3/8	16	8	1/2	3 3/4	8	5/8	3 3/8	9	5/8	4 3/8	11	3/8	3 1/4	13	3/4	5 1/2	10	3/8	3 1/4	N/A		8	3/8	5 3/4	23	36	7/16" x 5/8"	21	16	7	6	3/16	431	287	397	286	11'-5"	
12'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	8	5/8	4 1/2	N/A			8	3/4	5 1/4	8	3/8	3 1/4	N/A		12	1/2	4 1/4	N/A		8	3/8	5 3/4	18	33	7/16" x 5/8"	17	12	6	5	3/16	535	312	508	311	12'-5"		
13'-5"	1 7/8	1.094	CP0629	445	12	1/2	18	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	1/2	6 13/16	21	33	9/16" x 3/4"	29	23	10	7	1/4	744	360	728	360	13'-5"		
14'-5"	1 7/8	1.094	CP0629	445	12	1/2	18	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	1/2	6 13/16	21	33	9/16" x 3/4"	29	23	10	7	1/4	744	360	728	360	14'-5"		
15'-5"	2	1.219	CP0629	445	10	1/2	16	10	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A		8	1/2	4 1/4	N/A		8	1/2	6 13/16	18	28	9/16" x 3/4"	25	19	9	6	1/4	877	384	863	385	15'-5"		
16'-5"	2	1.156	CP0630	445	8	1/2	13	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A		N/A		N/A		8	1/2	6 13/16	14	22	9/16" x 3/4"	19	13	7	5	1/4	1115	410	1102	411	16'-5"			
17'-5"	2	1.156	CP0630	445	8	1/2	12	N/A			N/A			N/A			N/A			N/A		N/A		N/A		8	1/2	6 13/16	12	19	9/16" x 3/4"	15	10	6	N/A		1/4	1309	435	1296	436	17'-5"		
18'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	17	N/A			N/A			N/A			N/A			N/A		N/A		N/A		8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1500	460	1486	461	18'-5"			
19'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	15	N/A			N/A			N/A			N/A			N/A		N/A		N/A		8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	7	5	5/16	1687	485	1674	486	19'-5"			
20'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14	N/A			N/A			N/A			N/A			N/A		N/A		N/A		8	5/8	6 7/8	10	15	11/16" x 7/8"	17	11	6	N/A		5/16	1874	510	1861	512	20'-5"		
21'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A		N/A		N/A		8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A		5/16	2061	535	2047	537	21'-5"		

CA1245 - 0.0236_0.062 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 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"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A			20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	4'-5"			
5'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	20	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A			18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	5'-5"			
6'-5"	344*	N/A			19	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36		32		N/A			17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	6'-5"			
7'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35		27		N/A			16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	7'-5"			
8'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31		24		N/A			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	8'-5"			
9'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	12	2 1/4	4	20	3 1/2	4 3/4	28		21		N/A			14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	9'-5"			
10'-5"	344	N/A			18	2 3/8	4	18	2 3/8	3 3/4	20	2 1/2	4	24	2 1/2	4	17	2 1/4	4	26	3 1/2	4 3/4	36		36		N/A			14	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	26	2 1/2	4	5 3/4	10'-5"			
11'-5"	344	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		35		N/A			8	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	11'-5"			
12'-5"	344	N/A			12	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	36		26		N/A			6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	19	2 1/2	4	5 3/4	12'-5"			
13'-5"	445	19	3 7/8	6	17	3 5/8	6	16	3 3/4	6	18	3 3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	22	4 1/4	5 1/2	36		36		18	3 7/8	6	9	2 1/2	4	18	3 3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	13'-5"			
14'-5"	445	19	3 7/8	6	17	3 5/8	6	16	3 3/4	6	18	3 3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	22	4 1/4	5 1/2	36		36		18	3 7/8	6	9	2 1/2	4	18	3 3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	14'-5"			
15'-5"	445	17	3 7/8	6	13	3 5/8	6	14	3 3/4	6	16	3 3/4	5 1/2	20	4 1/4	6 3/4	14	4	6	19	4 1/4	5 1/2	36		34		15	3 7/8	6	N/A		17	3 3/4	5 1/2	16	4 1/4	6 3/4	22	4	6 1/4	6 13/16	15'-5"				
16'-5"	445	14	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36		25		12	3 7/8	6	N/A		13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	16'-5"				
17'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	7	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	29		20		10	3 7/8	6	N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	17'-5"				
18'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	9	4 5/8	7	10	4 1/2	6	17	5	7	N/A		16	5	6 1/4	36		34		16	5 1/8	7 7/8	N/A		10	4 1/2	6	N/A		17	5 1/2	8 1/2	6 7/8	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		29		10	5 1/8	7 7/8	N/A		8	4 1/2	6	N/A		10	5 1/2	8 1/2	6 7/8	19'-5"						
20'-5"	546	10	5 1/8	7 7/8	6	4 1/2	6	6	4 5/8	7	6	4 1/2	6	9	5	7	N/A		9	5	6 1/4	36		25		9	5 1/8	7 7/8	N/A		6	4 1/2	6	N/A		9	5 1/2	8 1/2	6 7/8	20'-5"						
21'-5"	546	8	5 1/8	7 7/8	5	4 1/2	6	N/A			N/A			8	5	7	N/A		N/A		32		22		7	5 1/8	7 7/8	N/A		N/A		7	5 1/2	8 1/2	6 7/8	21'-5"										

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CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																																												
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	133	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	165	0	163	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A	8	5/8	4 3/8	12	3/8	3 1/4	N/A	11	3/8	3 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	195	0	193	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A	8	3/4	5 1/4	10	3/8	3 1/4	N/A	10	3/8	3 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	225	0	223	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A	N/A	N/A	9	3/8	3 1/4	N/A	12	1/2	4 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	255	0	253	8'-5"	
9'-5"	1 1/16	0.282	CP0629	344	12	3/8	18	8	1/2	3 3/4	8	1/2	2 1/2	8	1/2	3 1/2	12	3/8	3 1/4	14	5/8	4 1/2	12	3/8	3 1/4	10	5/8	4 1/2	8	3/8	5 3/4	29	36	7/16" x 5/8"	28	21	10	8	3/16	328	285	266	283	9'-5"
10'-5"	1 3/16	0.407	CP0629	344	12	3/8	15	8	5/8	4 1/2	N/A	8	5/8	4 3/8	8	3/8	3 1/4	N/A	12	1/2	4 1/4	N/A	8	3/8	5 3/4	19	32	7/16" x 5/8"	18	13	5 3/4	19	32	7/16" x 5/8"	18	13	6	5	3/16	517	315	470	313	10'-5"
11'-5"	1 5/16	0.532	CP0629	344	12	3/8	11	11	3/4	5 1/2	N/A	N/A	N/A	N/A	9	1/2	4 1/4	N/A	9	1/2	4 1/4	N/A	8	3/8	5 3/4	14	25	7/16" x 5/8"	12	8	5 3/4	14	25	7/16" x 5/8"	12	8	N/A	N/A	3/16	702	345	665	344	11'-5"
12'-5"	1 3/4	0.906	CP0630	445	10	1/2	16	10	3/4	5 1/2	N/A	N/A	N/A	N/A	9	1/2	4 1/4	N/A	8	1/2	4 1/4	N/A	8	1/2	6 13/16	18	27	9/16" x 3/4"	24	18	6 13/16	18	27	9/16" x 3/4"	24	18	8	6	1/4	904	403	882	403	12'-5"
13'-5"	1 3/4	0.906	CP0630	445	10	1/2	16	10	3/4	5 1/2	N/A	N/A	N/A	N/A	9	1/2	4 1/4	N/A	8	1/2	4 1/4	N/A	8	1/2	6 13/16	18	27	9/16" x 3/4"	24	18	6 13/16	18	27	9/16" x 3/4"	24	18	8	6	1/4	904	403	882	403	13'-5"
14'-5"	2	1.156	CP0630	445	10	1/2	14	9	3/4	5 1/2	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	25	9/16" x 3/4"	23	16	6 13/16	16	25	9/16" x 3/4"	23	16	8	5	1/4	965	432	948	433	14'-5"
15'-5"	2	1.156	CP0630	445	8	1/2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	13	21	9/16" x 3/4"	17	12	6 13/16	13	21	9/16" x 3/4"	17	12	6	N/A	1/4	1200	462	1184	463	15'-5"
16'-5"	2	1.156	CP0630	446	8	5/8	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	13	20	11/16" x 7/8"	23	17	6 7/8	13	20	11/16" x 7/8"	23	17	8	6	5/16	1428	492	1412	493	16'-5"
17'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	11	17	11/16" x 7/8"	20	14	6 7/8	11	17	11/16" x 7/8"	20	14	7	5	5/16	1651	522	1635	523	17'-5"
18'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 7/8	10	15	11/16" x 7/8"	17	11	6	N/A	5/16	1871	552	1855	554	18'-5"
19'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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"	14	10	6 7/8	9	14	11/16" x 7/8"	14	10	5	N/A	5/16	2089	582	2073	584	19'-5"
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	17	19	7/8" x 1"	36	30	7 1/2	17	19	7/8" x 1"	36	30	13	9	3/8	1872	611	1857	611	20'-5"
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	15	17	7/8" x 1"	35	26	7 1/2	15	17	7/8" x 1"	35	26	12	8	3/8	2058	641	2043	642	21'-5"

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 60 PSF - Continued																																										
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																										
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.	Through Bolting - Stainless Steel Max O.C.	Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To	
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			
4'-5"	344*		N/A		21	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	29	2 1/2	4	30	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*		N/A		19	2 3/8	4	19	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36		31		N/A	17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	14	2 1/4	4	25	3 1/2	4 3/4	34		26		N/A	15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	25	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*		N/A		16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	12	2 1/4	4	22	3 1/2	4 3/4	29		23		N/A	14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*		N/A		15	2 3/8	4	14	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	26		20		N/A	13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	22	2 1/2	4	5 3/4	8'-5"	
9'-5"	344		N/A		15	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	21	2 1/2	4	13	2 1/4	4	20	3 1/2	4 3/4	36		36		N/A	10	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	9'-5"	
10'-5"	344		N/A		11	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	17	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	36		29		N/A	6	1 7/8	3 1/4	14	2 1/2	4	18	2 1/2	4	18	2 1/2	4	5 3/4	10'-5"	
11'-5"	344				5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	27		18		N/A			5	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 3/4	11'-5"		
12'-5"	445	16	3 7/8	6	12	3 5/8	6	14	3 3/4	6	16	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	18	4 1/4	5 1/2	36		33		15	3 7/8	6		N/A	16	3 3/4	5 1/2	14	4 1/4	6 3/4	21	4	6 1/4	6 13/16	12'-5"
13'-5"	445	16	3 7/8	6	12	3 5/8	6	14	3 3/4	6	16	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	18	4 1/4	5 1/2	36		33		15	3 7/8	6		N/A	16	3 3/4	5 1/2	14	4 1/4	6 3/4	21	4	6 1/4	6 13/16	13'-5"
14'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36		30		14	3 7/8	6		N/A	15	3 3/4	5 1/2	13	4 1/4	6 3/4	20	4	6 1/4	6 13/16	14'-5"
15'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	32		22		10	3 7/8	6		N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	15'-5"
16'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7		N/A	17	5	6 1/4	36		35		16	5 1/8	7 7/8		N/A	10	4 1/2	6		N/A	18	5 1/2	8 1/2	6 7/8	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		29		10	5 1/8	7 7/8		N/A	8	4 1/2	6		N/A	10	5 1/2	8 1/2	6 7/8	17'-5"		
18'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	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	18'-5"		
19'-5"	546	8	5 1/8	7 7/8		N/A			N/A			N/A		7	5	7		N/A				31		21		7	5 1/8	7 7/8		N/A				N/A		7	5 1/2	8 1/2	6 7/8	19'-5"		
20'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8		N/A		11	5 1/2	8	18	6 1/4	8 1/8		N/A			14	6 5/8	7 7/8	36		36		17	5 3/4	8 3/4	N/A	N/A	10	5 1/2	8		N/A	25	6 1/4	10	7 1/2	20'-5"
21'-5"	548	12	5 3/4	8 3/4	8	5 1/2	8		N/A		10	5 1/2	8	11	6 1/4	8 1/8		N/A			13	6 5/8	7 7/8	36		36		12	5 3/4	8 3/4	N/A	N/A	9	5 1/2	8		N/A	11	6 1/4	10	7 1/2	21'-5"

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A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0236_0.062 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											
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				
								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"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	146	0	144	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	179	0	176	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	11	3/8	3 1/4	N/A	N/A	N/A	10	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	211	0	209	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	9	3/8	3 1/4	N/A	N/A	N/A	9	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	244	0	241	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	4 3/8	8	3/8	3 1/4	N/A	N/A	5 1/2	12	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	276	0	274	8'-5"
9'-5"	1 1/16	0.282	CP0629	344	12	3/8	16	8	5/8	4 1/2	N/A	N/A	N/A	9	5/8	4 3/8	8	3/8	3 1/4	12	3/4	5 1/2	12	1/2	4 1/4	N/A	8	3/8	5 3/4	21	33	7/16" x 5/8"	20	15	7	6	3/16	469	309	405	307	9'-5"		
10'-5"	1 3/16	0.407	CP0629	344	12	3/8	12	12	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	11	1/2	4 1/4	N/A	N/A	5 1/2	9	1/2	4 1/4	N/A	8	3/8	5 3/4	15	26	7/16" x 5/8"	13	9	5	N/A	3/16	653	341	604	340	10'-5"		
11'-5"	1 1/2	0.656	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	24	9/16" x 3/4"	21	15	7	5	1/4	1010	405	981	405	11'-5"		
12'-5"	1 1/2	0.656	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	24	9/16" x 3/4"	21	15	7	5	1/4	1010	405	981	405	12'-5"			
13'-5"	1 3/4	0.906	CP0630	445	10	1/2	14	8	3/4	5 1/2	N/A	N/A	N/A	9	3/4	6 1/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	15	23	9/16" x 3/4"	21	15	7	5	1/4	1035	436	1013	437	13'-5"				
14'-5"	2	1.156	CP0630	445	8	1/2	13	8	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	6 1/4	8	3/4	6 1/4	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	14	23	9/16" x 3/4"	19	13	7	5	1/4	1094	468	1076	469	14'-5"				
15'-5"	2	1.156	CP0630	445	8	1/2	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	12	18	9/16" x 3/4"	14	10	5	N/A	1/4	1343	500	1326	501	15'-5"					
16'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	11	18	11/16" x 7/8"	21	15	7	5	5/16	1584	533	1567	534	16'-5"					
17'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	10	16	11/16" x 7/8"	17	12	6	N/A	5/16	1822	565	1805	567	17'-5"					
18'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A	5/16	2056	598	2039	600	18'-5"					
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	17	19	7/8" x 1"	36	30	13	9	3/8	1853	629	1836	630	19'-5"					
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	15	17	7/8" x 1"	35	26	12	8	3/8	2052	662	2036	662	20'-5"					
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2252	694	2236	695	21'-5"					

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued																																												
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																												
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To	
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.							
4'-5"	344*	N/A			21 2 3/8 4			20 2 3/8 3 3/4			21 2 1/2 4			27 2 1/2 4			19 2 1/4 4			34 3 1/2 4 3/4			36		35		N/A			18 1 7/8 3 1/4			20 2 1/2 4			28 2 1/2 4			29 2 1/2 4			5 3/4		4'-5"
5'-5"	344*	N/A			19 2 3/8 4			18 2 3/8 3 3/4			19 2 1/2 4			24 2 1/2 4			16 2 1/4 4			27 3 1/2 4 3/4			36		29		N/A			16 1 7/8 3 1/4			18 2 1/2 4			26 2 1/2 4			26 2 1/2 4			5 3/4		5'-5"
6'-5"	344*	N/A			17 2 3/8 4			16 2 3/8 3 3/4			17 2 1/2 4			22 2 1/2 4			13 2 1/4 4			23 3 1/2 4 3/4			31		24		N/A			15 1 7/8 3 1/4			17 2 1/2 4			23 2 1/2 4			24 2 1/2 4			5 3/4		6'-5"
7'-5"	344*	N/A			16 2 3/8 4			15 2 3/8 3 3/4			16 2 1/2 4			21 2 1/2 4			11 2 1/4 4			20 3 1/2 4 3/4			27		21		N/A			14 1 7/8 3 1/4			16 2 1/2 4			22 2 1/2 4			22 2 1/2 4			5 3/4		7'-5"
8'-5"	344*	N/A			15 2 3/8 4			13 2 3/8 3 3/4			15 2 1/2 4			19 2 1/2 4			10 2 1/4 4			17 3 1/2 4 3/4			24		18		N/A			13 1 7/8 3 1/4			15 2 1/2 4			20 2 1/2 4			21 2 1/2 4			5 3/4		8'-5"
9'-5"	344	N/A			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		34		N/A			6 1 7/8 3 1/4			14 2 1/2 4			19 2 1/2 4			19 2 1/2 4			5 3/4		9'-5"
10'-5"	344	N/A			9 2 3/8 4			5 2 3/8 4			12 2 1/2 4			5 2 1/2 4			5 2 1/4 4			12 3 1/2 4 3/4			30		21		N/A			N/A			12 2 1/2 4			5 2 1/2 4			17 3 1/4 5			5 3/4		10'-5"
11'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		30	13	3 7/8	6	N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	11'-5"			
12'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		30	13	3 7/8	6	N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	12'-5"			
13'-5"	445	14	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		28	13	3 7/8	6	N/A		14	3 3/4	5 1/2	11	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"			
14'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	15	4 1/4	5 1/2	36		25	12	3 7/8	6	N/A		13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"			
15'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	7	3 3/4	5 1/2	9	4 1/4	6 3/4	9	4	6	11	4 1/4	5 1/2	27		19	9	3 7/8	6	N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	15'-5"			
16'-5"	546	15	5 1/8	7 7/8	9	4 1/2	6	8	4 5/8	7	9	4 1/2	6	11	5	7	N/A		12	5	6 1/4	36		31	11	5 1/8	7 7/8	N/A		9	4 1/2	6	N/A		10	5 1/2	8 1/2	6 7/8	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	10	5	7	N/A		9	5	6 1/4	36		25	9	5 1/8	7 7/8	N/A		6	4 1/2	6	N/A		9	5 1/2	8 1/2	6 7/8	17'-5"					
18'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			8 5 7			N/A			N/A			31		21		7 5 1/8 7 7/8			N/A			N/A			7 5 1/2 8 1/2			6 7/8		18'-5"			
19'-5"	548	13	5 3/4	8 3/4	9 5 1/2 8			N/A			11 5 1/2 8			18 6 1/4 8 1/8			N/A			14 6 5/8 7 7/8			36		17		5 3/4 8 3/4			N/A			10 5 1/2 8			N/A			7 1/2		19'-5"			
20'-5"	548	12	5 3/4	8 3/4	8 5 1/2 8			N/A			10 5 1/2 8			11 6 1/4 8 1/8			N/A			13 6 5/8 7 7/8			36		12		5 3/4 8 3/4			N/A			9 5 1/2 8			N/A			7 1/2		20'-5"			
21'-5"	548	10	5 3/4	8 3/4	6 5 1/2 8			N/A			8 5 1/2 8			10 6 1/4 8 1/8			N/A			10 6 5/8 7 7/8			36		11		5 3/4 8 3/4			N/A			7 5 1/2 8			N/A			7 1/2		21'-5"			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 70 PSF																																													
Guide Construction								Filled CMU																Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To		
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)		Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	15	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	N/A	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	158	0	155	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	12	3/8	3 1/4	N/A	N/A	N/A	12	3/8	3 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	193	0	190	5'-5"			
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	10	3/8	3 1/4	N/A	N/A	N/A	10	3/8	3 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	228	0	225	6'-5"			
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	3/8	3 1/4	N/A	N/A	N/A	12	1/2	4 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	263	0	260	7'-5"			
9'-5"	1 1/16	0.282	CP0629	344	12	3/8	13	12	3/4	5 1/2	N/A	N/A	N/A	8	3/4	5 1/4	11	1/2	4 1/4	N/A	N/A	N/A	9	1/2	4 1/4	N/A	8	3/8	5 3/4	16	26	7/16" x 5/8"	15	10	5	N/A	3/16	611	333	545	331	9'-5"			
10'-5"	1 3/8	0.531	CP0630	445	10	1/2	16	9	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	24	9/16" x 3/4"	22	16	8	5	1/4	972	401	935	402	10'-5"				
11'-5"	1 3/8	0.531	CP0630	445	10	1/2	16	9	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	16	24	9/16" x 3/4"	22	16	8	5	1/4	972	401	935	402	11'-5"				
12'-5"	1 1/2	0.656	CP0630	445	8	1/2	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	6 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	14	21	9/16" x 3/4"	18	12	6	5	1/4	1149	436	1118	437	12'-5"				
13'-5"	1 3/4	0.906	CP0630	445	8	1/2	13	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	6 1/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	13	21	9/16" x 3/4"	18	12	6	N/A	1/4	1167	470	1143	471	13'-5"				
14'-5"	2	1.156	CP0630	445	8	1/2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	13	20	9/16" x 3/4"	17	11	6	N/A	1/4	1223	504	1204	505	14'-5"				
15'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1485	539	1467	540	15'-5"				
16'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	10	17	11/16" x 7/8"	18	13	6	5	5/16	1741	574	1723	575	16'-5"				
17'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	12	N/A	N/A	N/A	N/A	N/A	N/A	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	1992	609	1974	611	17'-5"				
18'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	17	20	7/8" x 1"	36	30	14	10	3/8	1807	642	1789	643	18'-5"				
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	16	18	7/8" x 1"	35	27	12	9	3/8	2020	678	2002	678	19'-5"				
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	14	16	7/8" x 1"	32	23	11	8	3/8	2232	713	2215	713	20'-5"				
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	13	15	7/8" x 1"	29	21	10	7	3/8	2445	748	2428	749	21'-5"				

CA1245 - 0.0236_0.062 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.		
4'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36	33	N/A			17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	15	2 1/4	4	25	3 1/2	4 3/4	34	27	N/A			15	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			16	2 3/8	4	16	2 3/8	3 3/4	16	2 1/2	4	22	2 1/2	4	12	2 1/4	4	21	3 1/2	4 3/4	29	22	N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	25	19	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	7'-5"
9'-5"	344	N/A			9	2 3/8	4	5	2 3/8	4	12	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	34	24	N/A			N/A			12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	9'-5"
10'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36	32	14	3 7/8	6	N/A			15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	10'-5"
11'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36	32	14	3 7/8	6	N/A			15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	11'-5"
12'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	36	25	11	3 7/8	6	N/A			9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	12'-5"
13'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	34	23	11	3 7/8	6	N/A			9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"
14'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	31	21	10	3 7/8	6	N/A			9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"
15'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	9	4 5/8	7	10	4 1/2	6	17	5	7	N/A			16	5	6 1/4	36	33	15	5 1/8	7 7/8	N/A			9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	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	27	9	5 1/8	7 7/8	N/A			7	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	16'-5"
17'-5"	546	8	5 1/8	7 7/8	5	4 1/2	6	N/A			5	4 1/2	6	8	5	7	N/A			5	5	6 1/4	32	22	7	5 1/8	7 7/8	N/A			5	3 3/4	5 1/2	N/A			7	5 1/2	8 1/2	6 7/8	17'-5"
18'-5"	548	16	5 3/4	8 3/4	10	5 1/2	8	N/A			11	5 1/2	8	18	6 1/4	8 1/8	N/A			14	6 5/8	7 7/8	36	36	18	5 3/4	8 3/4	N/A			11	5 1/2	8	N/A			25	6 1/4	10	7 1/2	18'-5"
19'-5"	548	12	5 3/4	8 3/4	8	5 1/2	8	N/A			10	5 1/2	8	17	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36	36	12	5 3/4	8 3/4	N/A			9	5 1/2	8	N/A			11	6 1/4	10	7 1/2	19'-5"
20'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			11	6 5/8	7 7/8	36	36	11	5 3/4	8 3/4	N/A			7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	20'-5"
21'-5"	648	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			5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	21'-5"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																																											
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																				
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1		Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	SD1	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
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A		9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	180	0	177	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A		8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	220	0	217	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A		N/A			9	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	260	0	257	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A		N/A			13	1/2	4 1/4	N/A			10	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	35	3/16	0	300	0	297	7'-5"
9'-5"	1 1/4	0.406	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A		N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	21	9/16" x 3/4"	20	14	7	5	1/4	1057	419	1008	419	9'-5"
10'-5"	1 1/4	0.406	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A		N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	21	9/16" x 3/4"	20	14	7	5	1/4	1057	419	1008	419	10'-5"
11'-5"	1 3/8	0.531	CP0630	445	8	1/2	13	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	13	19	9/16" x 3/4"	16	11	6	N/A	1/4	1245	459	1205	459	11'-5"
12'-5"	1 1/2	0.656	CP0630	445	8	1/2	11	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	11	17	9/16" x 3/4"	13	9	5	N/A	1/4	1427	498	1392	499	12'-5"
13'-5"	1 3/4	0.906	CP0630	446	8	5/8	17	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	13	20	11/16" x 7/8"	23	17	8	6	5/16	1430	537	1404	538	13'-5"
14'-5"	2	1.156	CP0630 & CP0647	546	8	5/8	16	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1481	575	1460	577	14'-5"
15'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	16	11/16" x 7/8"	18	13	6	N/A	5/16	1770	616	1750	617	15'-5"
16'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	12	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A	5/16	2053	656	2033	658	16'-5"
17'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	17	19	7/8" x 1"	36	29	13	9	3/8	1877	694	1856	695	17'-5"
18'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	16	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	15	17	7/8" x 1"	34	25	12	8	3/8	2116	734	2096	735	18'-5"
19'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	15	7/8" x 1"	30	22	10	7	3/8	2354	775	2334	775	19'-5"
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	12	14	7/8" x 1"	27	19	9	7	3/8	2592	815	2573	816	20'-5"
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12	N/A			N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	13	7/8" x 1"	24	17	9	6	3/8	2831	855	2812	856	21'-5"

CA1245 - 0.0236_0.062 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"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4	36		28	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 3/4	4'-5"
5'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	22	3 1/2	4 3/4	30		23	N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	25		20	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			13	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	16	3 1/2	4 3/4	22		17	N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	7'-5"
9'-5"	445	14	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36		29	12	3 7/8	6	N/A		13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	9'-5"	
10'-5"	445	14	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36		29	12	3 7/8	6	N/A		13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	10'-5"	
11'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	33		22	10	3 7/8	6	N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	11'-5"	
12'-5"	445	9	3 7/8	6	6	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	9	4 1/4	5 1/2	27		18	9	3 7/8	6	N/A		8	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	12'-5"	
13'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7	N/A			17	5	6 1/4	36		36	16	5 1/8	7 7/8	N/A		10	4 1/2	6	N/A			18	5 1/2	8 1/2	6 7/8	13'-5"	
14'-5"	546	17	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A			13	5	6 1/4	36		33	11	5 1/8	7 7/8	N/A		9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	14'-5"	
15'-5"	546	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	7	4 1/2	6	10	5	7	N/A			10	5	6 1/4	36		26	9	5 1/8	7 7/8	N/A		6	4 1/2	6	N/A			9	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			31		21	7	5 1/8	7 7/8	N/A		N/A			N/A			7	5 1/2	8 1/2	6 7/8	16'-5"	
17'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8	N/A			11	5 1/2	8	18	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36		36	17	5 3/4	8 3/4	N/A		10	5 1/2	8	N/A			24	6 1/4	10	7 1/2	17'-5"	
18'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			9	5 1/2	8	11	6 1/4	8 1/8	N/A			12	6 5/8	7 7/8	36		36	11	5 3/4	8 3/4	N/A		8	5 1/2	8	N/A			10	6 1/4	10	7 1/2	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			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	20'-5"	
21'-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		26	7	5 3/4	8 3/4	N/A		N/A			6	6 1/4	10	7 1/2	21'-5"	

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CA1245 - 0.0236 0.062 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 (-)
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A		8	5/8	4 3/8	11	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	203	0	199	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A					9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	248	0	244	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A					8	3/8	3 1/4	N/A			11	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	293	0	289	6'-5"
9'-5"	1 1/8	0.281	CP0630	445	8	1/2	15		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	1/2	6 13/16	13	19	9/16" x 3/4"	18	12	6	N/A	1/4	1170	427	1104	427	9'-5"
10'-5"	1 1/4	0.406	CP0630	445	8	1/2	12		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	1/2	6 13/16	12	17	9/16" x 3/4"	15	10	6	N/A	1/4	1331	471	1278	472	10'-5"
11'-5"	1 3/8	0.531	CP0630 & CP0647	446	8	5/8	17		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	5/8	6 7/8	12	18	11/16" x 7/8"	22	16	7	5	5/16	1519	516	1475	517	11'-5"
12'-5"	1 1/2	0.656	CP0630 & CP0647	546	8	5/8	15		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	7	5	5/16	1704	561	1667	562	12'-5"
13'-5"	1 3/4	0.906	CP0630 & CP0647	546	8	5/8	15		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	7	5	5/16	1693	604	1664	606	13'-5"
14'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	5/8	6 7/8	10	16	11/16" x 7/8"	19	13	6	5	5/16	1738	647	1716	649	14'-5"
15'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	18		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	3/4	7 1/2	17	19	7/8" x 1"	36	30	13	10	3/8	1818	693	1790	693	15'-5"
16'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	3/4	7 1/2	16	19	7/8" x 1"	36	29	13	9	3/8	1895	736	1873	736	16'-5"
17'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	15		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	3/4	7 1/2	14	16	7/8" x 1"	33	24	11	8	3/8	2160	781	2138	782	17'-5"
18'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	3/4	7 1/2	13	15	7/8" x 1"	29	21	10	7	3/8	2424	826	2402	827	18'-5"
19'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	3/4	7 1/2	12	13	7/8" x 1"	26	18	9	6	3/8	2687	872	2666	872	19'-5"
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12		N/A		N/A			N/A		N/A		N/A	N/A	N/A	N/A		N/A		N/A			8	3/4	7 1/2	10	12	7/8" x 1"	23	15	8	6	3/8	2951	917	2930	918	20'-5"

CA1245 - 0.0236 0.062 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"	344*	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	33	25		N/A			15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4	27	21		N/A			14	1 7/8	3 1/4	15	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			14	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	17	3 1/2	4 3/4	22	17		N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	6'-5"	
9'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	36	26		10			3 7/8	6	N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	9'-5"	
10'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	11	4 1/4	5 1/2	30	21		9			3 7/8	6	N/A	9	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	10'-5"	
11'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A		13	5	6 1/4	36	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 7/8	11'-5"		
12'-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	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	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	28		10			5 1/8	7 7/8	N/A	7	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	13'-5"		
14'-5"	546	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	7	4 1/2	6	10	5	7	N/A		10	5	6 1/4	36	26		9			5 1/8	7 7/8	N/A	7	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	14'-5"		
15'-5"	548	13	5 3/4	8 3/4	10	5 1/2	8	N/A			11	5 1/2	8	18	6 1/4	8 1/8	N/A		14	6 5/8	7 7/8	36	36		17			5 3/4	8 3/4	N/A	10	5 1/2	8	N/A			25	6 1/4	10	7 1/2	15'-5"		
16'-5"	548	12	5 3/4	8 3/4	9	5 1/2	8	N/A			10	5 1/2	8	17	6 1/4	8 1/8	N/A		13	6 5/8	7 7/8	36	36		16			5 3/4	8 3/4	N/A	9	5 1/2	8	N/A			24	6 1/4	10	7 1/2	16'-5"		
17'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A		11	6 5/8	7 7/8	36	36		11			5 3/4	8 3/4	N/A	7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	17'-5"		
18'-5"	648	9	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A		7	6 5/8	7 7/8	36	32		9			5 3/4	8 3/4	N/A	5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	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		7			5 3/4	8 3/4	N/A	N/A			N/A			6	6 1/4	10	7 1/2	19'-5"		
20'-5"	648	5	5 3/4	8 3/4	N/A			N/A			N/A			5	6 1/4	8 1/8	N/A		N/A			35	24		7			N/A			N/A			N/A			5	6 1/4	10	7 1/2	20'-5"		

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CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 100 PSF																																												
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 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"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A		8	3/4	5 1/4	10	3/8	3 1/4	N/A		10	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	225	0	221	4'-5"			
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A		N/A			8	3/8	3 1/4	N/A		11	1/2	4 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	275	0	271	5'-5"			
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/4	5 1/2	N/A		N/A			12	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	325	0	321	6'-5"			
9'-5"	1 1/8	0.281	CP0630	445	8	1/2	12		N/A		N/A		N/A			N/A			N/A					N/A		8	1/2	6 13/16	11	15	9/16" x 3/4"	13	8	5	N/A	1/4	1456	475	1385	475	9'-5"			
10'-5"	1 1/4	0.406	CP0630 & CP0647	446	8	5/8	17		N/A		N/A		N/A			N/A			N/A					N/A		8	5/8	6 7/8	11	17	11/16" x 7/8"	20	14	7	5	5/16	1606	524	1549	525	10'-5"			
11'-5"	1 3/8	0.531	CP0630 & CP0647	546	6	5/8	15		N/A		N/A		N/A			N/A			N/A					N/A		8	5/8	6 7/8	10	16	11/16" x 7/8"	18	12	6	N/A	5/16	1793	574	1745	575	11'-5"			
12'-5"	1 1/2	0.656	CP0630 & CP0647	546	6	5/8	13		N/A		N/A		N/A			N/A			N/A					N/A		8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	6	N/A	5/16	1982	623	1941	625	12'-5"			
13'-5"	1 3/4	0.906	CP0630 & CP0647	546	6	5/8	13		N/A		N/A		N/A			N/A			N/A					N/A		8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6	N/A	5/16	1957	671	1925	673	13'-5"			
14'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	12		N/A		N/A		N/A			N/A			N/A					N/A		8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	6	N/A	5/16	1996	719	1971	722	14'-5"			
15'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	16		N/A		N/A		N/A			N/A			N/A					N/A		8	3/4	7 1/2	15	17	7/8" x 1"	34	26	12	8	3/8	2076	770	2046	770	15'-5"			
16'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	15		N/A		N/A		N/A			N/A			N/A					N/A		8	3/4	7 1/2	14	16	7/8" x 1"	33	24	11	8	3/8	2155	818	2130	818	16'-5"			
17'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14		N/A		N/A		N/A			N/A			N/A					N/A		8	3/4	7 1/2	13	14	7/8" x 1"	29	20	10	7	3/8	2444	868	2420	869	17'-5"			
18'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12		N/A		N/A		N/A			N/A			N/A					N/A		8	3/4	7 1/2	11	13	7/8" x 1"	25	17	9	6	3/8	2732	918	2708	919	18'-5"			
19'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	11		N/A		N/A		N/A			N/A			N/A					N/A		8	3/4	7 1/2	10	12	7/8" x 1"	22	15	8	6	3/8	3021	969	2997	970	19'-5"			
20'-5"	2 1/2	1.656	CP0630 & CP0647	DC6	5	3/4	11		N/A		N/A		N/A			N/A			N/A					N/A		8	3/4	9 1/4	9	11	7/8" x 1"	19	13	7	5	3/8	3311	1019	3288	1020	20'-5"			

CA1245 - 0.0236_0.062 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"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	12	2 1/4	4	22	3 1/2	4 3/4	29	23		N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			15	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	24	18		N/A			13	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	21	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	15	3 1/2	4 3/4	20	16		N/A			N/A			13	2 1/2	4	5	2 1/2	4	19	2 1/2	4	5 3/4	6'-5"	
9'-5"	445	8	3 7/8	6	5	3 5/8	6	7	3 3/4	6	5	3	5	9	4 1/4	6 3/4	7	4	6	7	4 1/4	5 1/2	27	18		8	3 7/8	6	N/A			7	3 3/4	5 1/2	7	4 1/4	6 3/4	6	4	6 1/4	6 13/16	9'-5"	
10'-5"	446	11	5 1/8	7 7/8	8	4 1/2	6	8	4 5/8	7	8	4 1/2	6	11	5	7	N/A		12		5	6 1/4	36	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 7/8	10'-5"			
11'-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	11'-5"			
12'-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		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	5	4 1/2	6	N/A		5		4 1/2	6	8	5	7	N/A		5		5	6 1/4	33	23		7	5 1/8	7 7/8	N/A		5	4 1/2	6	N/A		7	5 1/2	8 1/2	6 7/8	13'-5"			
14'-5"	546	8	5 1/8	7 7/8	N/A		N/A		N/A		8		5	7	N/A		N/A		12		N/A		31	21		7	5 1/8	7 7/8	N/A		N/A		N/A		7	5 1/2	8 1/2	6 7/8	14'-5"				
15'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A		9		5 1/2	8	11	6 1/4	8 1/8	N/A		12		6 5/8	7 7/8	36	36		12	5 3/4	8 3/4	N/A		8	5 1/2	8	N/A		11	6 1/4	10	7 1/2	15'-5"			
16'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A		8		5 1/2	8	10	6 1/4	8 1/8	N/A		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	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	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	17'-5"		
18'-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		6		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"				
19'-5"	648	5	5 3/4	8 3/4	N/A		N/A		N/A		7		5 1/2	8	7	6 1/4	8 1/8	N/A		8		N/A		34	23		N/A			N/A			N/A		7	5 1/2	8	N/A		7 1/2	19'-5"		
20'-5"	DC6	8	5 3/4	8 3/4	6	5 1/2	8	N/A		7		5 1/2	8	7	6 1/4	8 1/8	N/A		8		6 5/8	7 7/8	36	31		9	5 3/4	8 3/4	7		4 1/2	6	7	5 1/2	8	N/A		7	6 1/4	10	9 1/4	20'-5"	



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

0.000 = +/-

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 120 PSF																																												
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A		N/A		N/A	8	3/8	3 1/4	N/A		N/A	12	1/2	4 1/4	N/A		N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	270	0	265	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A		N/A		N/A	12	1/2	4 1/4	N/A		N/A	9	1/2	4 1/4	N/A		N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	32	3/16	0	330	0	325	5'-5"	
9'-5"	1 1/8	0.281	CP0630 & CP0647	546	6	5/8	14		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	5/8	6 7/8	9	13	11/16" x 7/8"	15	10	5	N/A	5/16	2029	571	1946	572	9'-5"	
10'-5"	1 1/4	0.406	CP0630 & CP0647	546	6	5/8	13		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	5/8	6 7/8	8	13	11/16" x 7/8"	14	9	5	N/A	5/16	2156	630	2089	632	10'-5"	
11'-5"	1 3/8	0.531	CP0630 & CP0647	548	6	3/4	17		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	7 1/2	13	15	7/8" x 1"	30	22	10	7	3/8	2364	692	2287	691	11'-5"	
12'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	16		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	27	19	10	7	3/8	2559	751	2492	751	12'-5"	
13'-5"	1 3/4	0.906	CP0630 & CP0647	548	6	3/4	15		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	28	20	10	7	3/8	2502	808	2449	809	13'-5"	
14'-5"	2	1.156	CP0630 & CP0647	648	6	3/4	14		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	28	19	10	7	3/8	2528	866	2485	867	14'-5"	
15'-5"	2 1/4	1.406	CP0630 & CP0647	648	6	3/4	13		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	27	19	9	7	3/8	2592	924	2557	924	15'-5"	
16'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	7 1/2	12	13	7/8" x 1"	26	18	9	6	3/8	2674	982	2646	982	16'-5"	
17'-5"	2 1/2	1.656	CP0630 & CP0647	DC6	6	3/4	11		N/A		N/A		N/A		N/A			N/A		N/A			N/A			N/A		8	3/4	9 1/4	10	12	7/8" x 1"	22	15	8	6	3/8	3011	1042	2983	1043	17'-5"	

CA1245 - 0.0236_0.062 Minimum Thickness Galvanized or Stainless Steel - 120 PSF - Continued																																									
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																									
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt 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.					
4'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	24	19	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	15	3 1/2	4 3/4	20	15	N/A			N/A			13	2 1/2	4	5	2 1/2	4	19	2 1/2	4	5 3/4	5'-5"
9'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			35	24	N/A			N/A			N/A			N/A			6	5 1/2	8 1/2	6 7/8	9'-5"
10'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			6	5	7	N/A			N/A			31	21	N/A			N/A			N/A			N/A			5	5 1/2	8 1/2	6 7/8	10'-5"
11'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			8	6 5/8	7 7/8	36	36	10	5 3/4	8 3/4	N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	11'-5"
12'-5"	548	8	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			5	6 5/8	7 7/8	36	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	12'-5"
13'-5"	548	8	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			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	13'-5"
14'-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			8	6 1/4	10	7 1/2	14'-5"
15'-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	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	27	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"	DC6	10	5 3/4	8 3/4	8	5 1/2	8	N/A			9	5 1/2	8	9	6 1/4	8 1/8	N/A			11	6 5/8	7 7/8	36	36	10	5 3/4	8 3/4	9	4 1/2	6	8	5 1/2	8	N/A			9	6 1/4	10	9 1/4	17'-5"



CLOPAY CORPORATION
8585 DUKE BOULEVARD
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Unless otherwise specified,
dimensions are in inches &
tolerances are:

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

TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 32/52

DWG NO: ES-16-142-CLO

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0296 0.062 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																																												
Guide Construction								Filled CMU																			Steel (Wall anchors are the same diameter as assembly fasteners)																	
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	16	3/8	1 7/8	18	3/8	2 3/8	18	3/8	2 5/8	13	3/8	1 5/8	20	3/8	2 3/4	14	3/8	2	18	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	45	0	44	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	1 7/8	15	3/8	2 3/8	15	3/8	2 5/8	10	3/8	1 5/8	16	3/8	2 3/4	11	3/8	2	14	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	55	0	54	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	1 7/8	13	3/8	2 3/8	12	3/8	2 5/8	9	3/8	1 5/8	14	3/8	2 3/4	9	3/8	2	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	65	0	64	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	1 7/8	11	3/8	2 3/8	11	3/8	2 5/8	31	3/8	3 1/4	12	3/8	2 3/4	8	3/8	2	10	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	75	0	74	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	1 7/8	10	3/8	2 3/8	9	3/8	2 5/8	27	3/8	3 1/4	15	1/2	3 1/2	27	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	85	0	84	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	24	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	95	0	94	9'-5"
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	3	8	3/8	2 3/8	9	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	105	0	104	10'-5"
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	115	0	114	11'-5"
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	18	3/8	3 1/4	14	5/8	4 1/2	18	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	125	0	124	12'-5"
13'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	134	13'-5"
14'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	145	0	144	14'-5"
15'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	11	5/8	4 3/8	15	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	155	0	154	15'-5"
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	3/8	1 7/8	11	3/8	2 5/8	11	3/8	2 5/8	28	3/8	3 1/4	12	3/8	2 3/4	27	3/8	3 1/4	10	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	19	16	3/16	172	165	157	164	16'-5"
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	18	3/8	3 1/4	14	5/8	4 1/2	17	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	31	36	7/16" x 5/8"	30	23	11	9	3/16	314	175	301	174	17'-5"
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	1/2	3 3/4	8	5/8	3 3/8	9	5/8	4 3/8	12	3/8	3 1/4	13	3/4	5 1/2	12	3/8	3 1/4	N/A		8	3/8	5 3/4	22	36	7/16" x 5/8"	21	16	7	6	3/16	448	185	436	184	18'-5"	
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	9	5/8	4 1/2	N/A		8	3/4	5 1/4	9	3/8	3 1/4	N/A		13	1/2	4 1/4	N/A		8	3/8	5 3/4	17	33	7/16" x 5/8"	16	11	6	5	3/16	575	195	563	195	19'-5"			
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	13	3/4	5 1/2	N/A		N/A		12	1/2	4 1/4	N/A		10	1/2	4 1/4	N/A		8	3/8	5 3/4	14	27	7/16" x 5/8"	12	8	5	N/A	3/16	696	205	686	205	20'-5"				
21'-5"	1 1/2	0.719	CP0629	344	10	3/8	11	11	3/4	5 1/2	N/A		N/A		9	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	3/8	5 3/4	12	23	7/16" x 5/8"	10	6	N/A	N/A	3/16	814	215	804	215	21'-5"				

CA1245 - 0.0296 0.062 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.					
4'-5"	344*	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		N/A			33	1 7/8	3 1/4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			34	2 3/8	4	33	2 3/8	3 3/4	34	2 1/2	4	36	2 1/2	4	33	2 1/4	4	36	3 1/2	4 3/4	36		N/A			29	1 7/8	3 1/4	33	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			31	2 3/8	4	30	2 3/8	3 3/4	31	2 1/2	4	36	2 1/2	4	30	2 1/4	4	36	3 1/2	4 3/4	36		N/A			27	1 7/8	3 1/4	31	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			29	2 3/8	4	28	2 3/8	3 3/4	29	2 1/2	4	36	2 1/2	4	28	2 1/4	4	36	3 1/2	4 3/4	36		N/A			25	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	7'-5"
8'-5"	344*	N/A			27	2 3/8	4	26	2 3/8	3 3/4	27	2 1/2	4	36	2 1/2	4	26	2 1/4	4	36	3 1/2	4 3/4	36		N/A			23	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	8'-5"
9'-5"	344*	N/A			26	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	34	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36		N/A			22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	36	2 1/2	4	5 3/4	9'-5"
10'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	32	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		N/A			21	1 7/8	3 1/4	24	2 1/2	4	33	2 1/2	4	34	2 1/2	4	5 3/4	10'-5"
11'-5"	344*	N/A			23	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	30	2 1/2	4	22	2 1/4	4	36	3 1/2	4 3/4	36		N/A			20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	11'-5"
12'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	12'-5"
13'-5"	344*	N/A			21	2 3/8	4	21	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		N/A			18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	13'-5"
14'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4	36		N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	14'-5"
15'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36		N/A			17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	15'-5"
16'-5"	344	N/A			25	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	32	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36		N/A			19	1 7/8	3 1/4	26	2 1/2	4	35	2 1/2	4	36	2 1/2	4	5 3/4	16'-5"
17'-5"	344	N/A			18	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	26	3 1/2	4 3/4	36		N/A			14	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	17'-5"
18'-5"	344	N/A			15	2 3/8	4	15	2 3/8	3 3/4	17	2 1/2	4	21	2 1/2	4	13	2 1/4	4	19	3 1/2	4 3/4	36		N/A			10	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	18'-5"
19'-5"	344	N/A			12	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	36		N/A			6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	19	2 1/2	4	5 3/4	19'-5"
20'-5"	344	N/A			10	2 3/8	4	10	2 3/8	3 3/4	13	2 1/2	4	16	2 1/2	4	8	2 1/4	4	13	3 1/2	4 3/4	28		N/A					13	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	20'-5"	
21'-5"	344	N/A			5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	11	3 1/2	4 3/4	23		N/A					5	2 1/2	4	5	2 1/2	4	16	3 1/4	5	5 3/4	21'-5"	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																																												
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	11	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	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	68	0	66	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	28	3/8	3 1/4	16	1/2	3 1/2	28	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	83	0	81	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	23	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	98	0	96	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	113	0	111	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	18	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	128	0	126	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	143	0	141	9'-5"
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	158	0	156	10'-5"
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A			9	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	173	0	171	11'-5"
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	188	0	186	12'-5"
13'-5"	1 5/16	0.532	CP0629	344	12	3/8	18	11	3/8	3	9	5/8	3 3/8	12	5/8	4 3/8	20	3/8	3 1/4	12	5/8	4 1/2	20	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	30	25	3/16	96	202	70	201	13'-5"
14'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	12	3/8	3	8	3/8	2 3/8	9	1/2	3 1/2	24	3/8	3 1/4	12	1/2	3 1/2	24	3/8	3 1/4	11	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	18	15	3/16	176	217	154	216	14'-5"
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	9	1/2	3 3/4	9	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	14	3/4	5 1/2	13	3/8	3 1/4	N/A			8	3/8	5 3/4	26	36	7/16" x 5/8"	24	19	9	7	3/16	380	232	361	232	15'-5"
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	8	5/8	4 1/2	N/A			8	3/4	5 1/4	8	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	17	32	7/16" x 5/8"	16	11	6	5	3/16	569	247	552	247	16'-5"
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	11	12	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	13	25	7/16" x 5/8"	11	7	N/A	N/A	3/16	748	262	732	262	17'-5"
18'-5"	2	1.219	CP0629	445	12	1/2	18	9	5/8	4 1/2	N/A			9	3/4	5 1/4	16	1/2	4 1/4	N/A			13	1/2	4 1/4	N/A			8	1/2	6 13/16	27	36	9/16" x 3/4"	36	29	13	9	1/4	585	276	576	276	18'-5"
19'-5"	2	1.219	CP0629	445	12	1/2	18	13	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A			10	1/2	4 1/4	N/A			8	1/2	6 13/16	22	34	9/16" x 3/4"	30	23	11	7	1/4	724	291	715	291	19'-5"
20'-5"	2	1.219	CP0629	445	10	1/2	18	11	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	18	29	9/16" x 3/4"	25	19	9	6	1/4	858	306	849	306	20'-5"
21'-5"	2	1.156	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1026	321	1017	322	21'-5"

CA1245 - 0.0296_0.062 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 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"	344*		N/A		31	2 3/8	4	29	2 3/8	3 3/4	31	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	27	1 7/8	3 1/4	30	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"		
5'-5"	344*		N/A		28	2 3/8	4	27	2 3/8	3 3/4	28	2 1/2	4	36	2 1/2	4	27	2 1/4	4	36	3 1/2	4 3/4			36		36		N/A	24	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*		N/A		25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	33	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4			36		36		N/A	22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	35	2 1/2	4	5 3/4	6'-5"		
7'-5"	344*		N/A		23	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4			36		36		N/A	20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	7'-5"		
8'-5"	344*		N/A		22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4			36		36		N/A	19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	8'-5"		
9'-5"	344*		N/A		21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	20	2 1/4	4	34	3 1/2	4 3/4			36		36		N/A	18	1 7/8	3 1/4	20	2 1/2	4	29	2 1/2	4	29	2 1/2	4	5 3/4	9'-5"		
10'-5"	344*		N/A		20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4			36		33		N/A	17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	10'-5"		
11'-5"	344*		N/A		19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	28	3 1/2	4 3/4			36		30		N/A	16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	11'-5"		
12'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4			35		27		N/A	16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	12'-5"		
13'-5"	344		N/A		22	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	28	2 1/2	4	22	2 1/4	4	36	3 1/2	4 3/4			36		36		N/A	18	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	13'-5"		
14'-5"	344		N/A		23	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	30	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4			36		36		N/A	18	1 7/8	3 1/4	24	2 1/2	4	33	2 1/2	4	33	2 1/2	4	5 3/4	14'-5"		
15'-5"	344		N/A		16	2 3/8	4	16	2 3/8	3 3/4	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 3/4	15'-5"		
16'-5"	344		N/A		12	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4			35		25		N/A	6	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	19	2 1/2	4	5 3/4	16'-5"		
17'-5"	344		N/A		8	2 3/8	4	5	2 3/8	4	11	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4			25		17		N/A		N/A		11	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 3/4	17'-5"		
18'-5"	445	22	3 7/8	6	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	28	4 1/4	5 1/2			36		36		22	3 7/8	6	15	2 1/2	4	22	3 3/4	5 1/2	24	4 1/4	6 3/4	28	4	6 1/4	6 13/16	18'-5"
19'-5"	445	20	3 7/8	6	17	3 5/8	6	16	3 3/4	6	19	3 3/4	5 1/2	23	4 1/4	6 3/4	17	4	6	23	4 1/4	5 1/2			36		36		19	3 7/8	6	11	2 1/2	4	19	3 3/4	5 1/2	21	4 1/4	6 3/4	25	4	6 1/4	6 13/16	19'-5"
20'-5"	445	18	3 7/8	6	15	3 5/8	6	15	3 3/4	6	17	3 3/4	5 1/2	21	4 1/4	6 3/4	15	4	6	20	4 1/4	5 1/2			36		36		16	3 7/8	6		N/A		17	3 3/4	5 1/2	17	4 1/4	6 3/4	23	4	6 1/4	6 13/16	20'-5"
21'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2			36		29		14	3 7/8	6		N/A		15	3 3/4	5 1/2	13	4 1/4	6 3/4	20	4	6 1/4	6 13/16	21'-5"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																																												
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie 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"	N/A	N/A	N/A	344*	N/A	3/8	24	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	25	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	90	0	88	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	12	1/2	3 1/2	21	3/8	3 1/4	11	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	110	0	108	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	130	0	128	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	15	3/8	3 1/4	15	3/4	5 1/2	15	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	150	0	148	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A			10	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	170	0	168	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A			8	5/8	4 3/8	12	3/8	3 1/4	N/A			12	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	190	0	188	9'-5"
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	210	0	208	10'-5"
11'-5"	1 1/8	0.344	CP0629	344	12	3/8	18	9	3/8	3	N/A			8	5/8	4 3/8	16	3/8	3 1/4	N/A			16	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	56	230	11	228	11'-5"
12'-5"	1 3/16	0.407	CP0629	344	12	3/8	18	10	1/2	3 3/4	8	1/2	2 1/2	8	1/2	3 1/2	15	3/8	3 1/4	14	5/8	4 1/2	15	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	31	36	7/16" x 5/8"	29	23	10	9	3/16	312	250	275	249	12'-5"
13'-5"	1 5/16	0.532	CP0629	344	12	3/8	17	8	1/2	3 3/4	N/A			9	5/8	4 3/8	11	3/8	3 1/4	13	3/4	5 1/2	10	3/8	3 1/4	N/A			8	3/8	5 3/4	22	36	7/16" x 5/8"	21	16	7	6	3/16	440	270	410	269	13'-5"
14'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	9	5/8	4 1/2	N/A			8	5/8	4 3/8	9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	19	36	7/16" x 5/8"	18	13	6	5	3/16	503	290	480	289	14'-5"
15'-5"	1 3/4	0.969	CP0629	445	12	1/2	18	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	21	33	9/16" x 3/4"	29	23	10	7	1/4	742	328	726	329	15'-5"
16'-5"	1 3/4	0.969	CP0629	445	12	1/2	18	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	21	33	9/16" x 3/4"	29	23	10	7	1/4	742	328	726	329	16'-5"
17'-5"	2	1.219	CP0629	445	10	1/2	18	12	3/4	5 1/2	N/A			N/A			10	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	1/2	6 13/16	21	32	9/16" x 3/4"	28	22	10	7	1/4	772	348	760	348	17'-5"
18'-5"	2	1.156	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	16	25	9/16" x 3/4"	22	16	8	5	1/4	986	368	974	369	18'-5"
19'-5"	2	1.156	CP0630	445	8	1/2	13	N/A			N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	14	21	9/16" x 3/4"	18	12	6	N/A	1/4	1158	388	1146	389	19'-5"
20'-5"	2	1.156	CP0630	445	8	1/2	12	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	12	19	9/16" x 3/4"	15	10	6	N/A	1/4	1326	408	1314	409	20'-5"
21'-5"	2	1.156	CP0630	446	8	5/8	17	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1491	428	1479	429	21'-5"

CA1245 - 0.0296_0.062 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 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"	344*	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 3/4	4'-5"				
5'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36	N/A			21	1 7/8	3 1/4	23	2 1/2	4	33	2 1/2	4	33	2 1/2	4	5 3/4	5'-5"				
6'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		36	N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	6'-5"				
7'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	27	2 1/2	4	19	2 1/4	4	33	3 1/2	4 3/4	36		34	N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	28	2 1/2	4	5 3/4	7'-5"				
8'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	29	3 1/2	4 3/4	36		30	N/A			16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	27	2 1/2	4	5 3/4	8'-5"				
9'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35		27	N/A			16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	9'-5"				
10'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31		24	N/A			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	10'-5"				
11'-5"	344	N/A			20	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	25	2 1/2	4	20	2 1/4	4	31	3 1/2	4 3/4	34		26	N/A			16	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	11'-5"				
12'-5"	344	N/A			17	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	15	2 1/4	4	23	3 1/2	4 3/4	36		36	N/A			12	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	12'-5"				
13'-5"	344	N/A			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		34	N/A			9	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	13'-5"				
14'-5"	344	N/A			13	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	18	2 1/2	4	11	2 1/4	4	16	3 1/2	4 3/4	36		28	N/A			7	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	14'-5"				
15'-5"	445	19	3/8	6	17	3/8	6	16	3/4	6	18	3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	22	4 1/4	5 1/2	36		36	18	3/8	6	9	2 1/2	4	19	3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	15'-5"				
16'-5"	445	19	3/8	6	17	3/8	6	16	3/4	6	18	3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	22	4 1/4	5 1/2	36		36	18	3/8	6	9	2 1/2	4	19	3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	16'-5"				
17'-5"	445	19	3/8	6	16	3/8	6	15	3/4	6	18	3/4	5 1/2	21	4 1/4	6 3/4	16	4	6	21	4 1/4	5 1/2	36		36	17	3/8	6	9	2 1/2	4	18	3/4	5 1/2	19	4 1/4	6 3/4	24	4	6 1/4	6 13/16	17'-5"				
18'-5"	445	15	3/8	6	10	3/8	6	12	3/4	6	9	3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36		30	14	3/8	6	N/A			16	3/4	5 1/2	13	4 1/4	6 3/4	20	4	6 1/4	6 13/16	18'-5"				
19'-5"	445	13	3/8	6	9	3/8	6	9	3/4	6	9	3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	15	4 1/4	5 1/2	35		24	11	3/8	6	N/A			13	3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	19'-5"				
20'-5"	445	10	3/8	6	8	3/8	6	9	3/4	6	7	3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	29		20	10	3/8	6	N/A			9	3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	20'-5"				
21'-5"	446	17	5/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7	N/A		17	5	6 1/4	36		35	16	5/8	7 7/8	N/A			10	4 1/2	6	N/A			18	5 1/2	8 1/2	6 7/8	21'-5"					

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CA1245 - 0.0296_0.062 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 TZ2 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"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	113	0	110	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	9	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	138	0	135	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	163	0	160	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	188	0	185	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	213	0	210	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	238	0	235	9'-5"
11'-5"	1 1/8	0.344	CP0629	344	12	3/8	18	8	1/2	3 3/4	9	5/8	3 3/8	10	5/8	4 3/8	11	3/8	3 1/4	14	3/4	5 1/2	11	3/8	3 1/4	N/A			8	3/8	5 3/4	24	36	7/16" x 5/8"	23	18	8	7	3/16	394	288	346	286	11'-5"
12'-5"	1 3/16	0.407	CP0629	344	12	3/8	12	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	15	26	7/16" x 5/8"	13	9	5	N/A	3/16	664	313	623	311	12'-5"
13'-5"	1 5/8	0.781	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1030	386	1008	387	13'-5"
14'-5"	1 5/8	0.781	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1030	386	1008	387	14'-5"
15'-5"	1 5/8	0.781	CP0630	445	10	1/2	15	8	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1030	386	1008	387	15'-5"
16'-5"	1 7/8	1.031	CP0630	445	10	1/2	14	8	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1031	410	1015	411	16'-5"
17'-5"	2	1.156	CP0630	445	8	1/2	13	N/A			N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A			8	1/2	6 13/16	14	22	9/16" x 3/4"	18	12	6	5	1/4	1151	435	1136	436	17'-5"
18'-5"	2	1.156	CP0630	445	8	1/2	11	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	11	18	9/16" x 3/4"	14	9	5	N/A	1/4	1358	460	1343	461	18'-5"
19'-5"	2	1.156	CP0630	446	8	5/8	16	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	18	11/16" x 7/8"	21	15	7	5	5/16	1560	485	1546	486	19'-5"
20'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	16	11/16" x 7/8"	18	13	6	N/A	5/16	1759	510	1745	511	20'-5"
21'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6	N/A	5/16	1956	535	1942	537	21'-5"

CA1245 - 0.0296_0.062 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 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"	344*		N/A		24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A	20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	4'-5"		
5'-5"	344*		N/A		21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	20	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A	18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*		N/A		19	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36		32		N/A	17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	6'-5"		
7'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35		27		N/A	16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	7'-5"		
8'-5"	344*		N/A		17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31		24		N/A	15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	8'-5"		
9'-5"	344*		N/A		16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	12	2 1/4	4	20	3 1/2	4 3/4	28		21		N/A	14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	9'-5"		
11'-5"	344		N/A		14	2 3/8	4	14	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	12	2 1/4	4	18	3 1/2	4 3/4	36		36		N/A	9	1 7/8	3 1/4	16	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	11'-5"		
12'-5"	344		N/A		9	2 3/8	4	5	2 3/8	4	12	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	30		20		N/A				12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	12'-5"		
13'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		29		13	3 7/8	6		N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	13'-5"
14'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		29		13	3 7/8	6		N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	14'-5"
15'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		29		13	3 7/8	6		N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	15'-5"
16'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36		28		13	3 7/8	6		N/A		15	3 3/4	5 1/2	12	4 1/4	6 3/4	18	4	6 1/4	6 13/16	16'-5"
17'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	34		24		11	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	17'-5"
18'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	7	3 3/4	5 1/2	9	4 1/4	6 3/4	9	4	6	11	4 1/4	5 1/2	28		19		9	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	18'-5"
19'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7		N/A		13	5	6 1/4	36		32		11	5 1/8	7 7/8		N/A		9	4 1/2	6		N/A		10	5 1/2	8 1/2	6 7/8	19'-5"
20'-5"	546	10	5 1/8	7 7/8	7	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7		N/A		11	5	6 1/4	36		27		10	5 1/8	7 7/8		N/A		7	4 1/2	6		N/A		9	5 1/2	8 1/2	6 7/8	20'-5"
21'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	5	4 1/2	6	9	5	7		N/A		7	5	6 1/4	34		23		8	5 1/8	7 7/8		N/A		5	4 1/2	6		N/A		8	5 1/2	8 1/2	6 7/8	21'-5"

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CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																																													
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																			
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	133	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	165	0	163	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2		N/A		8	5/8	4 3/8	12	3/8	3 1/4		N/A		11	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	195	0	193	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2		N/A		8	3/4	5 1/4	10	3/8	3 1/4		N/A		10	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	225	0	223	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2		N/A			N/A		9	3/8	3 1/4		N/A		12	1/2	4 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	255	0	253	8'-5"	
11'-5"	1 1/8	0.344	CP0629	344	12	3/8	11	11	3/4	5 1/2		N/A			N/A		9	1/2	4 1/4		N/A		8	1/2	4 1/4		N/A		8	3/8	5 3/4	13	23	7/16" x 5/8"	11	7	N/A	N/A	3/16	733	345	680	344	11'-5"	
12'-5"	1 1/4	0.406	CP0630	445	10	1/2	16	8	3/4	5 1/2		N/A			N/A		9	3/4	6 1/4		N/A			N/A			N/A		8	1/2	6 13/16	16	23	9/16" x 3/4"	21	15	7	5	1/4	1013	374	973	375	12'-5"	
13'-5"	1 3/8	0.531	CP0630	445	8	1/2	14		N/A			N/A			N/A		8	3/4	6 1/4		N/A			N/A			N/A		8	1/2	6 13/16	14	21	9/16" x 3/4"	19	13	7	5	1/4	1128	404	1095	405	13'-5"	
14'-5"	1 1/2	0.656	CP0630	445	8	1/2	13		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	1/2	6 13/16	12	19	9/16" x 3/4"	16	11	6	N/A	1/4	1254	434	1225	434	14'-5"	
15'-5"	1 5/8	0.781	CP0630	445	8	1/2	11		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	1/2	6 13/16	11	18	9/16" x 3/4"	14	9	5	N/A	1/4	1379	463	1354	464	15'-5"	
16'-5"	1 7/8	1.031	CP0630	445	8	1/2	11		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	1/2	6 13/16	11	18	9/16" x 3/4"	14	9	5	N/A	1/4	1363	492	1344	493	16'-5"	
17'-5"	2	1.156	CP0630	446	8	5/8	16		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	8	5	5/16	1492	522	1475	523	17'-5"	
18'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	5/8	6 7/8	10	17	11/16" x 7/8"	19	13	6	5	5/16	1729	552	1712	553	18'-5"	
19'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6	N/A	5/16	1961	582	1945	584	19'-5"	
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	3/4	7 1/2	18	20	7/8" x 1"	36	31	14	10	3/8	1758	611	1742	611	20'-5"	
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18		N/A			N/A			N/A			N/A			N/A			N/A			N/A		8	3/4	7 1/2	16	18	7/8" x 1"	36		28	13	9	3/8	1955	641	1939	641	21'-5"

CA1245 - 0.0296_0.062 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"	344*		N/A		21	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			N/A		19	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*		N/A		19	2 3/8	4	19	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36			N/A		17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	14	2 1/4	4	25	3 1/2	4 3/4	34			N/A		15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	25	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*		N/A		16	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	12	2 1/4	4	22	3 1/2	4 3/4	29			N/A		14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*		N/A		15	2 3/8	4	14	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	26			N/A		13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	22	2 1/2	4	5 3/4	8'-5"	
11'-5"	344		N/A		5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	11	3 1/2	4 3/4	26			N/A			N/A		5	2 1/2	4	5	2 1/2	4	6	3 1/4	5	5 3/4	11'-5"	
12'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36			13	3 7/8	6		N/A		15	3 3/4	5 1/2	11	4 1/4	6 3/4	7	4	6 1/4	6 13/16	12'-5"
13'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	36			11	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"
14'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	32			10	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"
15'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	11	4 1/4	5 1/2	28			9	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	15'-5"
16'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	11	4 1/4	5 1/2	27			9	3 7/8	6		N/A		9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	16'-5"
17'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	9	4 5/8	7	10	4 1/2	6	17	5	7		N/A		16	5	6 1/4	36			15	5 1/8	7 7/8		N/A		9	4 1/2	6		N/A		10	5 1/2	8 1/2	6 7/8	17'-5"
18'-5"	546	11	5 1/8	7 7/8	7	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7		N/A		11	5	6 1/4	36			10	5 1/8	7 7/8		N/A		7	4 1/2	6		N/A		9	5 1/2	8 1/2	6 7/8	18'-5"
19'-5"	546	9	5 1/8	7 7/8	5	4 1/2	6	5	4 5/8	7	5	4 1/2	6	8	5	7		N/A		6	5	6 1/4	33			8	5 1/8	7 7/8		N/A		5	4 1/2	6		N/A		8	5 1/2	8 1/2	6 7/8	19'-5"
20'-5"	548	17	5 3/4	8 3/4	10	5 1/2	8	7	5 5/8	10	18	5 1/2	8	19	6 1/4	8 1/8		N/A		20	6 5/8	7 7/8	36			18	5 3/4	8 3/4		N/A		11	5 1/2	8		N/A		26	6 1/4	10	7 1/2	20'-5"
21'-5"	548	12	5 3/4	8 3/4	9	5 1/2	8		N/A		10	5 1/2	8	17	6 1/4	8 1/8		N/A		13	6 5/8	7 7/8	36			16	5 3/4	8 3/4		N/A		9	5 1/2	8		N/A		24	6 1/4	10	7 1/2	21'-5"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0296_0.062 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 TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To		
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Embed	Max O.C.	Dia.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	146	0	144	4'-5"		
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	179	0	176	5'-5"		
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A	N/A	N/A	8	5/8	4 3/8	11	3/8	3 1/4	N/A	N/A	N/A	10	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	211	0	209	6'-5"		
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	9	3/8	3 1/4	N/A	N/A	N/A	9	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	244	0	241	7'-5"		
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	3/8	3 1/4	N/A	N/A	N/A	11	1/2	4 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	276	0	274	8'-5"		
11'-5"	1 3/16	0.344	CP0630	344	10	3/8	9	9	3/4	5 1/2	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	3/8	5 3/4	11	19	7/16" x 5/8"	8	5	N/A	N/A	3/16	904	374	851	373	11'-5"					
12'-5"	1 1/4	0.406	CP0630	445	8	1/2	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	13	20	9/16" x 3/4"	17	12	5	N/A	1/4	1190	406	1148	406	12'-5"						
13'-5"	1 3/8	0.531	CP0630	445	8	1/2	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	12	18	9/16" x 3/4"	15	10	6	N/A	1/4	1302	438	1266	438	13'-5"						
14'-5"	1 1/2	0.656	CP0630	445	8	1/2	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	11	17	9/16" x 3/4"	13	9	5	N/A	1/4	1427	470	1397	471	14'-5"						
15'-5"	1 5/8	0.781	CP0630	446	8	5/8	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	12	18	11/16" x 7/8"	21	15	7	5	5/16	1553	502	1527	503	15'-5"						
16'-5"	1 7/8	1.031	CP0630	446	8	5/8	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	12	19	11/16" x 7/8"	22	16	7	5	5/16	1529	533	1509	535	16'-5"							
17'-5"	2	1.156	CP0630	546	8	5/8	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	11	17	11/16" x 7/8"	20	14	7	5	5/16	1663	565	1645	567	17'-5"							
18'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6	N/A	5/16	1914	598	1897	600	18'-5"							
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	18	21	7/8" x 1"	36	32	14	10	3/8	1727	629	1709	629	19'-5"							
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	16	18	7/8" x 1"	36	28	13	9	3/8	1938	662	1921	662	20'-5"							
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	15	17	7/8" x 1"	33	25	11	8	3/8	2148	694	2131	695	21'-5"							

CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued																																											
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																											
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.						
4'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4	36	35		N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4	36	29		N/A			16	1 7/8	3 1/4	18	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31	24		N/A			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4	27	21		N/A			14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*	N/A			15	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	19	2 1/2	4	10	2 1/4	4	17	3 1/2	4 3/4	24	18		N/A			13	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	21	2 1/2	4	5 3/4	8'-5"	
11'-5"	344	N/A			5	2 3/8	4	5	2 3/8	4	5	2 1/2	4	5	2 1/2	4	5	2 1/4	4	10	3 1/2	4 3/4	19	12		N/A			N/A			5	2 1/2	4	5	2 1/2	4	6	3 1/4	5	5 3/4	11'-5"	
12'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	36	25		10	3 7/8	6	N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	12'-5"			
13'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	7	3 3/4	5 1/2	15	4 1/4	6 3/4	9	4	6	12	4 1/4	5 1/2	31	21		10	3 7/8	6	N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"			
14'-5"	445	10	3 7/8	6	6	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	10	4 1/4	5 1/2	27	18		9	3 7/8	6	N/A	8	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	14'-5"			
15'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A			13	5	6 1/4	36	33		11	5 1/8	7 7/8	N/A	9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	15'-5"			
16'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A			13	5	6 1/4	36	33		11	5 1/8	7 7/8	N/A	9	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	16'-5"			
17'-5"	546	11	5 1/8	7 7/8	8	4 1/2	6	7	4 5/8	7	8	4 1/2	6	11	5	7	N/A			12	5	6 1/4	36	29		10	5 1/8	7 7/8	N/A	8	4 1/2	6	N/A			10	5 1/2	8 1/2	6 7/8	17'-5"			
18'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	5	4 5/8	7	5	4 1/2	6	9	5	7	N/A			7	5	6 1/4	34	24		8	5 1/8	7 7/8	N/A	5	4 1/2	6	N/A			8	5 1/2	8 1/2	6 7/8	18'-5"			
19'-5"	548	17	5 3/4	8 3/4	10	5 1/2	8	7	5 5/8	10	19	5 1/2	8	19	6 1/4	8 1/8	N/A			20	6 5/8	7 7/8	36	36		18	5 3/4	8 3/4	N/A	11	5 1/2	8	N/A			26	6 1/4	10	7 1/2	19'-5"			
20'-5"	548	12	5 3/4	8 3/4	9	5 1/2	8	N/A			10	5 1/2	8	17	6 1/4	8 1/8	N/A			13	6 5/8	7 7/8	36	36		16	5 3/4	8 3/4	N/A	9	5 1/2	8	N/A			24	6 1/4	10	7 1/2	20'-5"			
21'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			9	5 1/2	8	11	6 1/4	8 1/8	N/A			12	6 5/8	7 7/8	36	36		11	5 3/4	8 3/4	N/A	8	5 1/2	8	N/A			10	6 1/4	10	7 1/2	21'-5"			

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CA1245 - 0.0296_0.062 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.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	15	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	158	0	155	4'-5"				
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A			8	5/8	4 3/8	12	3/8	3 1/4	N/A			12	3/8	3 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	193	0	190	5'-5"						
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	228	0	225	6'-5"						
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A			N/A			8	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	263	0	260	7'-5"						
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A			N/A			13	1/2	4 1/4	N/A			10	1/2	4 1/4	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	3/16	0	298	0	295	8'-5"						
11'-5"	1 3/16	0.344	CP0630	445	10	1/2	16	8	3/4	5 1/2	N/A			N/A			8	3/4	6 1/4	N/A			N/A			N/A	8	1/2	6 13/16	15	21	9/16" x 3/4"	20	14	7	5	1/4	1067	402	1016	402	11'-5"				
12'-5"	1 1/4	0.406	CP0630	445	8	1/2	12	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	1/2	6 13/16	11	17	9/16" x 3/4"	14	9	5	N/A	1/4	1368	437	1324	438	12'-5"				
13'-5"	1 3/8	0.531	CP0630	445	8	1/2	11	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	1/2	6 13/16	11	16	9/16" x 3/4"	13	8	5	N/A	1/4	1475	471	1438	472	13'-5"				
14'-5"	1 1/2	0.656	CP0630	446	8	5/8	16	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	5/8	6 7/8	11	18	11/16" x 7/8"	21	15	7	5	5/16	1600	506	1568	507	14'-5"				
15'-5"	1 5/8	0.781	CP0630 & CP0647	546	6	5/8	15	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	5/8	6 7/8	10	17	11/16" x 7/8"	19	13	6	5	5/16	1728	541	1700	542	15'-5"				
16'-5"	1 7/8	1.031	CP0630 & CP0647	546	8	5/8	15	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	5/8	6 7/8	11	17	11/16" x 7/8"	19	13	7	5	5/16	1695	574	1674	576	16'-5"				
17'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	13	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	5/8	6 7/8	10	16	11/16" x 7/8"	17	12	6	N/A	5/16	1834	609	1815	610	17'-5"				
18'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	17	19	7/8" x 1"	36	30	13	9	3/8	1859	644	1836	644	18'-5"				
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	17	19	7/8" x 1"	36	29	13	9	3/8	1894	678	1875	678	19'-5"				
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	16	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	15	17	7/8" x 1"	34	25	12	8	3/8	2118	713	2099	713	20'-5"				
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A			N/A			N/A			N/A			N/A			N/A			N/A	8	3/4	7 1/2	13	15	7/8" x 1"	30	22	10	7	3/8	2341	748	2323	748	21'-5"				

CA1245 - 0.0296_0.062 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"	344*		N/A		20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36		33		N/A		17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	15	2 1/4	4	25	3 1/2	4 3/4	34		27		N/A		15	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*		N/A		16	2 3/8	4	16	2 3/8	3 3/4	16	2 1/2	4	22	2 1/2	4	12	2 1/4	4	21	3 1/2	4 3/4	29		22		N/A		14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*		N/A		15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	25		19		N/A		13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	7'-5"	
8'-5"	344*		N/A		14	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	16	3 1/2	4 3/4	22		17		N/A		12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	8'-5"	
11'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	15	4 1/4	5 1/2	36		29		12	3 7/8	6		13	3 3/4	5 1/2	10	4 1/4	6 3/4	7	4	6 1/4	6 13/16	11'-5"		
12'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	10	4 1/4	5 1/2	29		20		9	3 7/8	6		9	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	12'-5"		
13'-5"	445	9	3 7/8	6	6	3 5/8	6	7	3 3/4	6	5	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	8	4 1/4	5 1/2	26		17		8	3 7/8	6		8	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	13'-5"		
14'-5"	446	15	5 1/8	7 7/8	9	4 1/2	6	8	4 5/8	7	9	4 1/2	6	11	5	7		N/A		12	5	6 1/4	36		32		11	5 1/8	7 7/8		N/A		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	7	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7		N/A		11	5	6 1/4	36		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	15'-5"
16'-5"	546	11	5 1/8	7 7/8	8	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7		N/A		11	5	6 1/4	36		28		10	5 1/8	7 7/8		N/A		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	6	4 5/8	7	6	4 1/2	6	9	5	7		N/A		8	5	6 1/4	36		25		9	5 1/8	7 7/8		N/A		6	4 1/2	6		N/A		8	5 1/2	8 1/2	6 7/8	17'-5"
18'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8		N/A		11	5 1/2	8	18	6 1/4	8 1/8		N/A		14	6 5/8	7 7/8	36		36		17	5 3/4	8 3/4		N/A		10	5 1/2	8		N/A		25	6 1/4	10	7 1/2	18'-5"
19'-5"	548	13	5 3/4	8 3/4	9	5 1/2	8		N/A		11	5 1/2	8	18	6 1/4	8 1/8		N/A		13	6 5/8	7 7/8	36		36		17	5 3/4	8 3/4		N/A		10	5 1/2	8		N/A		24	6 1/4	10	7 1/2	19'-5"
20'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8		N/A		9	5 1/2	8	11	6 1/4	8 1/8		N/A		12	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4		N/A		8	5 1/2	8		N/A		10	6 1/4	10	7 1/2	20'-5"
21'-5"	648	10	5 3/4	8 3/4	5	5 1/2	8		N/A		7	5 1/2	8	9	6 1/4	8 1/8		N/A		9	6 5/8	7 7/8	36		34		10	5 3/4	8 3/4		N/A		6	5 1/2	8		N/A		9	6 1/4	10	7 1/2	21'-5"

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CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																																												
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt		Superimposed Loads				D.B.G. Up To		
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)		Vx (-)	Vy (-)
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A			9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	180	0	177	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4				10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	220	0	217	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A			N/A			9	3/8	3 1/4				12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	260	0	257	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A			N/A			13	1/2	4 1/4				10	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	35	3/16	0	300	0	297	7'-5"
11'-5"	1 3/16	0.344	CP0630	445	8	1/2	12			N/A				N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	11	16	9/16" x 3/4"	13	9	5	N/A	1/4	1409	459	1353	460	11'-5"
12'-5"	1 1/4	0.406	CP0630 & CP0647	446	6	5/8	16			N/A				N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	11	16	11/16" x 7/8"	19	13	6	5	5/16	1723	500	1674	501	12'-5"
13'-5"	1 3/8	0.531	CP0630 & CP0647	546	6	5/8	15			N/A				N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	15	11/16" x 7/8"	17	12	6	N/A	5/16	1822	539	1781	541	13'-5"
14'-5"	1 1/2	0.656	CP0630 & CP0647	546	6	5/8	14			N/A				N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	15	11/16" x 7/8"	16	11	6	N/A	5/16	1946	579	1910	580	14'-5"
15'-5"	1 5/8	0.781	CP0630 & CP0647	546	6	5/8	13			N/A				N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	14	11/16" x 7/8"	14	10	5	N/A	5/16	2077	618	2046	620	15'-5"
16'-5"	1 7/8	1.031	CP0630 & CP0647	546	6	5/8	12			N/A				N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A	5/16	2027	657	2003	658	16'-5"
17'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	17			N/A				N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	33	24	11	8	3/8	2187	698	2156	698	17'-5"
18'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	16			N/A				N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	32	24	11	8	3/8	2196	736	2170	736	18'-5"
19'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	15			N/A				N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	32	23	11	8	3/8	2228	775	2206	775	19'-5"
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14			N/A				N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	14	7/8" x 1"	29	20	10	7	3/8	2478	815	2457	815	20'-5"
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13			N/A				N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	13	7/8" x 1"	25	17	9	6	3/8	2728	855	2707	856	21'-5"

CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF - Continued																																														
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																														
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To			
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.									
4'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4	36	28		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 3/4	4'-5"				
5'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	22	3 1/2	4 3/4	30	23		N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	5'-5"				
6'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	25	20		N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	6'-5"				
7'-5"	344*	N/A			13	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	16	3 1/2	4 3/4	22	17		N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	7'-5"				
11'-5"	445	9	3 7/8	6	6	3 5/8	6	8	3 3/4	6	5	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	9	4 1/4	5 1/2	28	19		9	3 7/8	6	N/A			8	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	11'-5"				
12'-5"	446	10	5 1/8	7 7/8	7	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7	N/A		10		5	6 1/4	36	30		9	5 1/8	7 7/8	N/A			7	4 1/2	6	N/A			9	5 1/2	8 1/2	6 7/8	12'-5"				
13'-5"	546	10	5 1/8	7 7/8	6	4 1/2	6	6	4 5/8	7	6	4 1/2	6	9	5	7	N/A		9		5	6 1/4	36	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	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		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	N/A			N/A			N/A			7	5	7	N/A		N/A		N/A		32	21		7	5 1/8	7 7/8	N/A			N/A			N/A			7	5 1/2	8 1/2	6 7/8	15'-5"				
16'-5"	546	8	5 1/8	7 7/8	N/A			N/A			N/A			8	5	7	N/A		N/A		N/A		32	22		7	5 1/8	7 7/8	N/A			N/A			N/A			7	5 1/2	8 1/2	6 7/8	16'-5"				
17'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			9	5 1/2	8	10	6 1/4	8 1/8	N/A		11		6 5/8	7 7/8	36	36		11	5 3/4	8 3/4	N/A			8			5 1/2	8	N/A			10	6 1/4	10	7 1/2	17'-5"		
18'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A		11		6 5/8	7 7/8	36	36		11	5 3/4	8 3/4	N/A			7			5 1/2	8	N/A			10	6 1/4	10	7 1/2	18'-5"		
19'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A		10		6 5/8	7 7/8	36	36		11	5 3/4	8 3/4	N/A			7			5 1/2	8	N/A			10	6 1/4	10	7 1/2	19'-5"		
20'-5"	648	8	5 3/4	8 3/4	N/A			N/A			6			5 1/2	8	8	6 1/4	8 1/8	N/A		6		6 5/8	7 7/8	36	31		9	5 3/4	8 3/4	N/A			5			5 1/2	8	N/A			8	6 1/4	10	7 1/2	20'-5"
21'-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		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	21'-5"			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0296_0.062 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 TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A		8	5/8	4 3/8	11	3/8	3 1/4	N/A		11	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	203	0	199	4'-5"			
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A		N/A			9	3/8	3 1/4	N/A		9	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	248	0	244	5'-5"			
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A		N/A			8	3/8	3 1/4	N/A		11	1/2	4 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	293	0	289	6'-5"			
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A		N/A			11	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	338	0	334	7'-5"			
11'-5"	1 3/16	0.344	CP0630 & CP0647	446	6	5/8	16		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	5/8	6 7/8	10	16	11/16" x 7/8"	18	13	6	N/A	5/16	1751	517	1690	518	11'-5"			
12'-5"	1 1/4	0.406	CP0630 & CP0647	546	6	5/8	13		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	5/8	6 7/8	9	13	11/16" x 7/8"	14	10	5	N/A	5/16	2078	563	2024	564	12'-5"			
13'-5"	1 3/8	0.531	CP0630 & CP0647	546	6	5/8	13		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	5/8	6 7/8	8	13	11/16" x 7/8"	13	9	5	N/A	5/16	2169	607	2124	609	13'-5"			
14'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	17		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	14	15	7/8" x 1"	31	22	11	8	3/8	2310	653	2255	653	14'-5"			
15'-5"	1 5/8	0.781	CP0630 & CP0647	548	6	3/4	16		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	13	14	7/8" x 1"	29	21	10	7	3/8	2443	698	2395	698	15'-5"			
16'-5"	1 7/8	1.031	CP0630 & CP0647	548	6	3/4	16		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	13	15	7/8" x 1"	30	21	10	7	3/8	2373	741	2335	741	16'-5"			
17'-5"	2	1.156	CP0630 & CP0647	648	6	3/4	15		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	28	20	10	7	3/8	2530	785	2495	785	17'-5"			
18'-5"	2 1/4	1.406	CP0630 & CP0647	648	6	3/4	14		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	28	19	10	7	3/8	2532	828	2503	829	18'-5"			
19'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	12	14	7/8" x 1"	27	19	9	7	3/8	2561	871	2538	872	19'-5"			
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	12		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	7 1/2	11	12	7/8" x 1"	24	16	8	6	3/8	2838	917	2815	917	20'-5"			
21'-5"	2 1/2	1.656	CP0630 & CP0647	DC6	5	3/4	11		N/A		N/A		N/A			N/A			N/A		N/A			N/A		8	3/4	9 1/4	10	11	7/8" x 1"	21	14	8	5	3/8	3114	962	3092	963	21'-5"			

CA1245 - 0.0296_0.062 Minimum Thickness Galvanized or Stainless Steel - 90 PSF - Continued																																											
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																											
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.						
4'-5"	344*	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	33	25		N/A			15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4	27	21		N/A			14	1 7/8	3 1/4	15	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			14	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	17	3 1/2	4 3/4	22	17		N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	18	2 1/2	4	8	2 1/4	4	14	3 1/2	4 3/4	19	15		N/A			N/A			13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 3/4	7'-5"	
11'-5"	446	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	7	4 1/2	6	10	5	7	N/A			9	5	6 1/4	36	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	11'-5"	
12'-5"	546	7	5 1/8	7 7/8	N/A			N/A			N/A			7	5	7	N/A			N/A			33	22		N/A			N/A			N/A			6	5 1/2	8 1/2	6 7/8	12'-5"				
13'-5"	546	7	5 1/8	7 7/8	N/A			N/A			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	13'-5"				
14'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			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	14'-5"	
15'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			8	6 5/8	7 7/8	36	35		10	5 3/4	8 3/4	N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	15'-5"	
16'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			9	6 5/8	7 7/8	36	35		10	5 3/4	8 3/4	N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	16'-5"	
17'-5"	648	8	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	8	6 1/4	8 1/8	N/A			6	6 5/8	7 7/8	36	32		9	5 3/4	8 3/4	N/A			5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	17'-5"	
18'-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			8	6 1/4	10	7 1/2	18'-5"	
19'-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	19'-5"				
20'-5"	648	6	5 3/4	8 3/4	N/A			N/A			N/A			5	6 1/4	8 1/8	N/A			N/A			36	26		N/A			N/A			N/A			5	6 1/4	10	7 1/2	20'-5"				
21'-5"	DC6	10	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	9	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36	35		10	5 3/4	8 3/4	8	4 1/2	6	8	5 1/2	8	N/A			9	6 1/4	10	9 1/4	21'-5"	

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																																													
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																			
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt				Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)		
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	16	3/8	1 7/8	18	3/8	2 3/8	18	3/8	2 5/8	13	3/8	1 5/8	20	3/8	2 3/4	14	3/8	2	18	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	45	0	44	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	1 7/8	15	3/8	2 3/8	15	3/8	2 5/8	10	3/8	1 5/8	16	3/8	2 3/4	11	3/8	2	14	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	55	0	54	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	1 7/8	13	3/8	2 3/8	12	3/8	2 5/8	9	3/8	1 5/8	14	3/8	2 3/4	9	3/8	2	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	65	0	64	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	1 7/8	11	3/8	2 3/8	11	3/8	2 5/8	31	3/8	3 1/4	12	3/8	2 3/4	8	3/8	2	10	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	75	0	74	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	1 7/8	10	3/8	2 3/8	9	3/8	2 5/8	27	3/8	3 1/4	15	1/2	3 1/2	27	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	85	0	84	8'-5"	
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	24	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	95	0	94	9'-5"	
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/8	3	8	3/8	2 3/8	9	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	22	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	105	0	104	10'-5"	
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	115	0	114	11'-5"	
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	18	3/8	3 1/4	14	5/8	4 1/2	18	3/8	3 1/4	14	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	125	0	124	12'-5"	
13'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	135	0	134	13'-5"	
14'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	145	0	144	14'-5"	
15'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	11	5/8	4 3/8	15	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	155	0	154	15'-5"	
16'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	165	0	164	16'-5"	
17'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	175	0	174	17'-5"	
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	27	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	20	16	3/16	161	185	145	184	18'-5"
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	17	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	10	5/8	4 1/2	8	3/8	5 3/4	31	36	7/16" x 5/8"	29	23	3/16	317	195	302	194	19'-5"			
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	17	8	1/2	3 3/4	N/A	N/A	N/A	9	5/8	4 3/8	11	3/8	3 1/4	12	3/4	5 1/2	11	3/8	3 1/4	N/A	8	3/8	5 3/4	21	36	7/16" x 5/8"	20	15	3/16	463	205	449	204	20'-5"					
21'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	8	5/8	4 1/2	N/A	N/A	N/A	8	3/4	5 1/4	8	3/8	3 1/4	N/A	N/A	N/A	12	1/2	4 1/4	N/A	8	3/8	5 3/4	17	31	7/16" x 5/8"	15	11	3/16	602	215	589	215	21'-5"					

CA1245 - 0.0405_0.062 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"	344*	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		33	1 7/8	3 1/4	36	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			34	2 3/8	4	33	2 3/8	3 3/4	34	2 1/2	4	36	2 1/2	4	33	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		29	1 7/8	3 1/4	33	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"
6'-5"	344*	N/A			31	2 3/8	4	30	2 3/8	3 3/4	31	2 1/2	4	36	2 1/2	4	30	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		27	1 7/8	3 1/4	31	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	6'-5"
7'-5"	344*	N/A			29	2 3/8	4	28	2 3/8	3 3/4	29	2 1/2	4	36	2 1/2	4	28	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		25	1 7/8	3 1/4	28	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	7'-5"
8'-5"	344*	N/A			27	2 3/8	4	26	2 3/8	3 3/4	27	2 1/2	4	36	2 1/2	4	26	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		23	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	8'-5"
9'-5"	344*	N/A			26	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	34	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	36	2 1/2	4	5 3/4	9'-5"
10'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	32	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		21	1 7/8	3 1/4	24	2 1/2	4	33	2 1/2	4	34	2 1/2	4	5 3/4	10'-5"
11'-5"	344*	N/A			23	2 3/8	4	22	2 3/8	3 3/4	23	2 1/2	4	30	2 1/2	4	22	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	32	2 1/2	4	5 3/4	11'-5"
12'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	12'-5"
13'-5"	344*	N/A			21	2 3/8	4	21	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	13'-5"
14'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4	36		35		N/A		18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	14'-5"
15'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36		33		N/A		17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	15'-5"
16'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	17	2 1/4	4	29	3 1/2	4 3/4	36		31		N/A		17	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	27	2 1/2	4	5 3/4	16'-5"
17'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	28	3 1/2	4 3/4	36		29		N/A		16	1 7/8	3 1/4	18	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	17'-5"
18'-5"	344	N/A			25	2 3/8	4	25	2 3/8	3 3/4	26	2 1/2	4	32	2 1/2	4	25	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A		19	1 7/8	3 1/4	26	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	18'-5"
19'-5"	344	N/A			18	2 3/8	4	18	2 3/8	3 3/4	20	2 1/2	4	24	2 1/2	4	17	2 1/4	4	26	3 1/2	4 3/4	36		36		N/A		14	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	19'-5"
20'-5"	344	N/A			14	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	13	2 1/4	4	19	3 1/2	4 3/4	36		33		N/A		9	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	20'-5"
21'-5"	344	N/A			11	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	17	2 1/2	4	10	2 1/4	4	15	3 1/2	4 3/4	34		24		N/A		6	1 7/8	3 1/4	14	2 1/2	4	18	2 1/2	4	18	2 1/2	4	5 3/4	21'-5"

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*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																																												
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	11	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	12	3/8	2 3/4	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	68	0	66	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	1 7/8	10	3/8	2 3/8	10	3/8	2 5/8	28	3/8	3 1/4	16	1/2	3 1/2	28	3/8	3 1/4	15	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	83	0	81	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/8	3	8	3/8	2 3/8	8	3/8	2 5/8	24	3/8	3 1/4	13	1/2	3 1/2	23	3/8	3 1/4	13	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	98	0	96	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	20	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	113	0	111	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	18	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	128	0	126	8'-5"
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	143	0	141	9'-5"
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	158	0	156	10'-5"
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A		9	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	173	0	171	11'-5"	
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A		9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	188	0	186	12'-5"		
13'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A		8	5/8	4 3/8	11	3/8	3 1/4	N/A		11	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	203	0	201	13'-5"			
14'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A		9	3/4	5 1/4	10	3/8	3 1/4	N/A		10	3/8	3 1/4	N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	218	0	216	14'-5"			
15'-5"	1 1/4	0.469	CP0629	344	12	3/8	18	10	3/8	3	9	3/8	2 3/8	9	3/8	2 5/8	19	3/8	3 1/4	13	1/2	3 1/2	19	3/8	3 1/4	12	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	30	14	11	3/16	231	232	201	231	15'-5"
16'-5"	1 3/8	0.594	CP0629	344	12	3/8	18	8	3/8	3	10	5/8	3 3/8	12	5/8	4 3/8	15	3/8	3 1/4	13	5/8	4 1/2	15	3/8	3 1/4	10	5/8	4 1/2	8	3/8	5 3/4	29	36	7/16" x 5/8"	28	21	10	8	3/16	329	247	305	247	16'-5"
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	8	1/2	3 3/4	N/A		9	5/8	4 3/8	11	3/8	3 1/4	13	3/4	5 1/2	11	3/8	3 1/4	N/A		8	3/8	5 3/4	23	36	7/16" x 5/8"	22	17	8	6	3/16	428	262	407	262	17'-5"		
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	12	13	3/4	5 1/2	N/A		N/A		N/A		13	1/2	4 1/4	N/A		10	1/2	4 1/4	N/A		8	3/8	5 3/4	16	29	7/16" x 5/8"	14	10	5	N/A		3/16	633	277	614	277	18'-5"	
19'-5"	1 7/8	1.094	CP0629	445	12	1/2	18	13	3/4	5 1/2	N/A		N/A		13	1/2	4 1/4	N/A		10	1/2	4 1/4	N/A		8	1/2	6 13/16	23	35	9/16" x 3/4"	31	24	11	8	1/4	695	306	684	306	19'-5"				
20'-5"	1 7/8	1.094	CP0629	445	12	1/2	18	13	3/4	5 1/2	N/A		N/A		13	1/2	4 1/4	N/A		10	1/2	4 1/4	N/A		8	1/2	6 13/16	23	35	9/16" x 3/4"	31	24	11	8	1/4	695	306	684	306	20'-5"				
21'-5"	2	1.219	CP0629	445	10	1/2	18	12	3/4	5 1/2	N/A		N/A		11	1/2	4 1/4	N/A		9	1/2	4 1/4	N/A		8	1/2	6 13/16	20	32	9/16" x 3/4"	28	22	10	7	1/4	775	321	765	321	21'-5"				

CA1245 - 0.0405_0.062 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 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"	344*	N/A			31	2 3/8	4	29	2 3/8	3 3/4	31	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			27	1 7/8	3 1/4	30	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	4'-5"			
5'-5"	344*	N/A			28	2 3/8	4	27	2 3/8	3 3/4	28	2 1/2	4	36	2 1/2	4	27	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			24	1 7/8	3 1/4	27	2 1/2	4	36	2 1/2	4	36	2 1/2	4	5 3/4	5'-5"			
6'-5"	344*	N/A			25	2 3/8	4	24	2 3/8	3 3/4	25	2 1/2	4	33	2 1/2	4	24	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			22	1 7/8	3 1/4	25	2 1/2	4	35	2 1/2	4	35	2 1/2	4	5 3/4	6'-5"			
7'-5"	344*	N/A			23	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	7'-5"			
8'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36	36		N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	8'-5"			
9'-5"	344*	N/A			21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	20	2 1/4	4	34	3 1/2	4 3/4	36	36		N/A			18	1 7/8	3 1/4	20	2 1/2	4	29	2 1/2	4	29	2 1/2	4	5 3/4	9'-5"			
10'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36	33		N/A			17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	10'-5"			
11'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	28	3 1/2	4 3/4	36	30		N/A			16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	11'-5"			
12'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35	27		N/A			16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	12'-5"			
13'-5"	344*	N/A			17	2 3/8	4	17	2 3/8	3 3/4	17	2 1/2	4	23	2 1/2	4	14	2 1/4	4	24	3 1/2	4 3/4	33	25		N/A			15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/4	13'-5"			
14'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	22	3 1/2	4 3/4	30	23		N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	14'-5"			
15'-5"	344	N/A			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	30	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 3/4	15'-5"			
16'-5"	344	N/A			17	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	16	2 1/4	4	23	3 1/2	4 3/4	36	36		N/A			13	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	16'-5"			
17'-5"	344	N/A			15	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	13	2 1/4	4	19	3 1/2	4 3/4	36	34		N/A			9	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	17'-5"			
18'-5"	344	N/A			10	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	16	2 1/2	4	9	2 1/4	4	13	3 1/2	4 3/4	30	21		N/A			13	2 1/2	4	15	2 1/2	4	15	2 1/2	4	5 3/4	18'-5"						
19'-5"	445	20	3 7/8	6	18	3 5/8	6	16	3 3/4	6	19	3 3/4	5 1/2	23	4 1/4	6 3/4	18	4	6	24	4 1/4	5 1/2	36	36		36			19	3 7/8	6	11	2 1/2	4	20	3 3/4	5 1/2	21	4 1/4	6 3/4	25	4	6 1/4	6 13/16	19'-5"
20'-5"	445	20	3 7/8	6	18	3 5/8	6	16	3 3/4	6	19	3 3/4	5 1/2	23	4 1/4	6 3/4	18	4	6	24	4 1/4	5 1/2	36	36		36			19	3 7/8	6	11	2 1/2	4	20	3 3/4	5 1/2	21	4 1/4	6 3/4	25	4	6 1/4	6 13/16	20'-5"
21'-5"	445	19	3 7/8	6	16	3 5/8	6	15	3 3/4	6	18	3 3/4	5 1/2	22	4 1/4	6 3/4	16	4	6	21	4 1/4	5 1/2	36	36		36			18	3 7/8	6	9	2 1/2	4	18	3 3/4	5 1/2	20	4 1/4	6 3/4	24	4	6 1/4	6 13/16	21'-5"

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																																														
Guide Construction								Filled CMU																				Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt				Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	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	25	3/8	3 1/4	14	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	90	0	88	4'-5"		
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	12	1/2	3 1/2	21	3/8	3 1/4	11	1/2	3 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	110	0	108	5'-5"		
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	10	5/8	3 3/8	13	5/8	4 3/8	18	3/8	3 1/4	13	5/8	4 1/2	17	3/8	3 1/4	13	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	130	0	128	6'-5"		
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	15	3/8	3 1/4	15	3/4	5 1/2	15	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	150	0	148	7'-5"		
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	N/A			10	5/8	4 3/8	13	3/8	3 1/4	13	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	170	0	168	8'-5"		
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A			8	5/8	4 3/8	12	3/8	3 1/4	N/A			12	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	190	0	188	9'-5"		
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A			8	5/8	4 3/8	11	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	210	0	208	10'-5"		
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	230	0	228	11'-5"		
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A			N/A			9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	250	0	248	12'-5"		
13'-5"	1 1/8	0.344	CP0629	344	12	3/8	18	9	3/8	3	8	1/2	2 1/2	8	1/2	3 1/2	17	3/8	3 1/4	14	5/8	4 1/2	17	3/8	3 1/4	11	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	29	13	11	3/16	234	270	189	269	13'-5"		
14'-5"	1 3/16	0.407	CP0629	344	12	3/8	16	9	5/8	4 1/2	N/A			9	5/8	4 3/8	9	3/8	3 1/4	12	3/4	5 1/2	9	3/8	3 1/4	N/A			8	3/8	5 3/4	21	35	7/16" x 5/8"	20	15	7	6	3/16	472	290	433	289	14'-5"		
15'-5"	1 1/4	0.469	CP0629	344	12	3/8	12	12	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	14	26	7/16" x 5/8"	13	9	5	N/A	3/16	681	310	648	309	15'-5"		
16'-5"	1 5/8	0.781	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1026	369	1007	369	16'-5"					
17'-5"	1 5/8	0.781	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1026	369	1007	369	17'-5"					
18'-5"	1 5/8	0.781	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			8	1/2	6 13/16	15	24	9/16" x 3/4"	21	15	7	5	1/4	1026	369	1007	369	18'-5"					
19'-5"	1 7/8	1.031	CP0630	445	10	1/2	15	9	3/4	5 1/2	N/A			N/A			8	1/2	4 1/4	N/A			N/A			8	1/2	6 13/16	16	25	9/16" x 3/4"	22	16	8	5	1/4	995	388	981	389	19'-5"					
20'-5"	2	1.156	CP0630	445	10	1/2	14	8	3/4	5 1/2	N/A			N/A			9	3/4	6 1/4	N/A			N/A			8	1/2	6 13/16	14	23	9/16" x 3/4"	19	14	7	5	1/4	1091	408	1078	409	20'-5"					
21'-5"	2	1.156	CP0630	445	8	1/2	12	N/A			N/A			N/A			N/A			N/A			N/A			8	1/2	6 13/16	12	19	9/16" x 3/4"	16	11	6	N/A	1/4	1278	428	1265	429	21'-5"					

CA1245 - 0.0405_0.062 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.							
4'-5"	344*	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 3/4	4'-5"		
5'-5"	344*	N/A			24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			21	1 7/8	3 1/4	23	2 1/2	4	33	2 1/2	4	33	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*	N/A			22	2 3/8	4	21	2 3/8	3 3/4	22	2 1/2	4	29	2 1/2	4	21	2 1/4	4	36	3 1/2	4 3/4	36	36	N/A			19	1 7/8	3 1/4	22	2 1/2	4	30	2 1/2	4	31	2 1/2	4	5 3/4	6'-5"		
7'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	27	2 1/2	4	19	2 1/4	4	33	3 1/2	4 3/4	36	34	N/A			18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	28	2 1/2	4	5 3/4	7'-5"		
8'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	25	2 1/2	4	16	2 1/4	4	29	3 1/2	4 3/4	36	30	N/A			16	1 7/8	3 1/4	19	2 1/2	4	26	2 1/2	4	27	2 1/2	4	5 3/4	8'-5"		
9'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35	27	N/A			16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	9'-5"		
10'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31	24	N/A			15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	10'-5"		
11'-5"	344*	N/A			16	2 3/8	4	16	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	12	2 1/4	4	21	3 1/2	4 3/4	29	22	N/A			14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	23	2 1/2	4	5 3/4	11'-5"		
12'-5"	344*	N/A			16	2 3/8	4	14	2 3/8	3 3/4	16	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	26	20	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	22	2 1/2	4	5 3/4	12'-5"		
13'-5"	344	N/A			18	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	24	2 1/2	4	18	2 1/4	4	26	3 1/2	4 3/4	36	36	N/A			14	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	13'-5"		
14'-5"	344	N/A			13	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	18	2 1/2	4	11	2 1/4	4	16	3 1/2	4 3/4	36	32	N/A			7	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	14'-5"		
15'-5"	344	N/A			9	2 3/8	4	5	2 3/8	4	12	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	28	19	N/A			N/A			12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	15'-5"		
16'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36	29	14			3 7/8	6	N/A			15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	16'-5"
17'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36	29	14			3 7/8	6	N/A			15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	17'-5"
18'-5"	445	15	3 7/8	6	9	3 5/8	6	11	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	12	4	6	16	4 1/4	5 1/2	36	29	14			3 7/8	6	N/A			15	3 3/4	5 1/2	12	4 1/4	6 3/4	19	4	6 1/4	6 13/16	18'-5"
19'-5"	445	15	3 7/8	6	9	3 5/8	6	12	3 3/4	6	9	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36	29	14			3 7/8	6	N/A			15	3 3/4	5 1/2	13	4 1/4	6 3/4	20	4	6 1/4	6 13/16	19'-5"
20'-5"	445	14	3 7/8	6	9	3 5/8	6	10	3 3/4	6	9	3 3/4	5 1/2	18	4 1/4	6 3/4	11	4	6	15	4 1/4	5 1/2	36	26	12			3 7/8	6	N/A			14	3 3/4	5 1/2	11	4 1/4	6 3/4	7	4	6 1/4	6 13/16	20'-5"
21'-5"	445	10	3 7/8	6	8	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	9	4	6	13	4 1/4	5 1/2	30	21	10			3 7/8	6	N/A			9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	21'-5"

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CA1245 - 0.0405_0.062 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 TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To		
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)			
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/8	3	9	1/2	2 1/2	9	1/2	3 1/2	21	3/8	3 1/4	15	5/8	4 1/2	20	3/8	3 1/4	15	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	113	0	110	4'-5"			
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/8	3	9	5/8	3 3/8	12	5/8	4 3/8	17	3/8	3 1/4	12	5/8	4 1/2	16	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	138	0	135	5'-5"			
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	14	3/8	3 1/4	13	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	163	0	160	6'-5"			
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4		N/A		9	5/8	4 3/8	12	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	188	0	185	7'-5"			
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2		N/A		8	5/8	4 3/8	11	3/8	3 1/4		N/A		10	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	213	0	210	8'-5"			
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2		N/A		8	3/4	5 1/4	9	3/8	3 1/4		N/A		9	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	238	0	235	9'-5"			
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2		N/A			N/A		8	3/8	3 1/4		N/A		12	1/2	4 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	3/16	0	263	0	260	10'-5"			
13'-5"	1 1/8	0.344	CP0629	344	12	3/8	12	12	3/4	5 1/2		N/A			N/A		10	1/2	4 1/4		N/A		9	1/2	4 1/4		N/A		8	3/8	5 3/4	15	25	7/16" x 5/8"	13		9	5	N/A	3/16	663	338	614	336	13'-5"	
14'-5"	1 1/4	0.406	CP0630	445	10	1/2	18	9	3/4	5 1/2		N/A			N/A		9	1/2	4 1/4		N/A			N/A		N/A		8	1/2	6 13/16	17	25	9/16" x 3/4"	24		18	8	6	1/4	905	362	869	362	14'-5"		
15'-5"	1 5/16	0.469	CP0630	445	8	1/2	15					N/A			N/A		8	3/4	6 1/4		N/A			N/A		N/A		8	1/2	6 13/16	14	21	9/16" x 3/4"	18		13	7	5	1/4	1130	387	1097	387	15'-5"		
16'-5"	1 7/16	0.594	CP0630	445	8	1/2	13					N/A			N/A		8	3/4	6 1/4		N/A			N/A		N/A		8	1/2	6 13/16	13	20	9/16" x 3/4"	17		12	6	N/A	1/4	1205	412	1177	412	16'-5"		
17'-5"	1 1/2	0.656	CP0630	445	8	1/2	12					N/A			N/A			N/A			N/A			N/A		N/A		8	1/2	6 13/16	11	17	9/16" x 3/4"	14		9	5	N/A	1/4	1400	436	1375	437	17'-5"		
18'-5"	1 5/8	0.781	CP0630	446	8	5/8	18					N/A			N/A			N/A			N/A			N/A		N/A		8	5/8	6 7/8	12	19	1 1/16" x 7/8"	22		16	8	5	5/16	1481	461	1459	462	18'-5"		
19'-5"	1 7/8	1.031	CP0630	446	8	5/8	17					N/A			N/A			N/A			N/A			N/A		N/A		8	5/8	6 7/8	13	20	1 1/16" x 7/8"	23		17	8	6	5/16	1421	485	1404	486	19'-5"		
20'-5"	2	1.156	CP0630	446	8	5/8	16					N/A			N/A			N/A			N/A			N/A		N/A		8	5/8	6 7/8	12	19	1 1/16" x 7/8"	22		16	7	5	5/16	1524	510	1509	511	20'-5"		
21'-5"	2	1.156	CP0630 & CP0647	546	6	5/8	14					N/A			N/A			N/A			N/A			N/A		N/A		8	5/8	6 7/8	10	17	1 1/16" x 7/8"	18		13	6	N/A	5/16	1742	535	1727	536	21'-5"		

CA1245 - 0.0405_0.062 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 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"	344*		N/A		24	2 3/8	4	23	2 3/8	3 3/4	24	2 1/2	4	31	2 1/2	4	23	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A	20	1 7/8	3 1/4	23	2 1/2	4	32	2 1/2	4	33	2 1/2	4	5 3/4	4'-5"
5'-5"	344*		N/A		21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	28	2 1/2	4	20	2 1/4	4	36	3 1/2	4 3/4	36		36		N/A	18	1 7/8	3 1/4	21	2 1/2	4	29	2 1/2	4	30	2 1/2	4	5 3/4	5'-5"
6'-5"	344*		N/A		19	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	17	2 1/4	4	30	3 1/2	4 3/4	36		32		N/A	17	1 7/8	3 1/4	19	2 1/2	4	27	2 1/2	4	27	2 1/2	4	5 3/4	6'-5"
7'-5"	344*		N/A		18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	24	2 1/2	4	15	2 1/4	4	26	3 1/2	4 3/4	35		27		N/A	16	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	7'-5"
8'-5"	344*		N/A		17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4	31		24		N/A	15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	8'-5"
9'-5"	344*		N/A		16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	12	2 1/4	4	20	3 1/2	4 3/4	28		21		N/A	14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	9'-5"
10'-5"	344*		N/A		15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	25		19		N/A	13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	10'-5"
13'-5"	344		N/A		8	2 3/8	4	5	2 3/8	4	11	2 1/2	4	5	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	30		20		N/A		N/A	11	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 3/4	13'-5"	
14'-5"	445	16	3 7/8	6	11	3 5/8	6	13	3 3/4	6	15	3 3/4	5 1/2	19	4 1/4	6 3/4	13	4	6	17	4 1/4	5 1/2	36		36	15	3 7/8	6		N/A	16	3 3/4	5 1/2	14	4 1/4	6 3/4	21	4	6 1/4	6 13/16	14'-5"
15'-5"	445	13	3 7/8	6	9	3 5/8	6	9	3 3/4	6	9	3 3/4	5 1/2	17	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	36		26	11	3 7/8	6		N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	15'-5"
16'-5"	445	12	3 7/8	6	9	3 5/8	6	9	3 3/4	6	8	3 3/4	5 1/2	16	4 1/4	6 3/4	10	4	6	14	4 1/4	5 1/2	34		24	10	3 7/8	6		N/A	9	3 3/4	5 1/2	9	4 1/4	6 3/4	7	4	6 1/4	6 13/16	16'-5"
17'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	6	3 3/4	5 1/2	9	4 1/4	6 3/4	8	4	6	11	4 1/4	5 1/2	28		19	9	3 7/8	6		N/A	9	3 3/4	5 1/2	8	4 1/4	6 3/4	7	4	6 1/4	6 13/16	17'-5"
18'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7		N/A	16	5	6 1/4	36		35	16	5 1/8	7 7/8		N/A	10	4 1/2	6		N/A	18	5 1/2	8 1/2	6	7/8	18'-5"	
19'-5"	446	17	5 1/8	7 7/8	10	4 1/2	6	10	4 5/8	7	10	4 1/2	6	17	5	7		N/A	17	5	6 1/4	36		36	16	5 1/8	7 7/8		N/A	10	4 1/2	6		N/A	19	5 1/2	8 1/2	6	7/8	19'-5"	
20'-5"	446	17	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7		N/A	13	5	6 1/4	36		33	11	5 1/8	7 7/8		N/A	9	4 1/2	6		N/A	10	5 1/2	8 1/2	6	7/8	20'-5"	
21'-5"	546	10	5 1/8	7 7/8	7	4 1/2	6	7	4 5/8	7	7	4 1/2	6	10	5	7		N/A	11	5	6 1/4	36		27	10	5 1/8	7 7/8		N/A	7	4 1/2	6		N/A	9	5 1/2	8 1/2	6	7/8	21'-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 TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt				Tapped Bolt				Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)			
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	3/8	3	9	5/8	3 3/8	11	5/8	4 3/8	16	3/8	3 1/4	12	5/8	4 1/2	15	3/8	3 1/4	12	5/8	4 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	146	0	144	4'-5"		
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4				9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	13	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	179	0	176	5'-5"		
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2		N/A		8	5/8	4 3/8	11	3/8	3 1/4		N/A		10	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	211	0	209	6'-5"		
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2		N/A		8	3/4	5 1/4	9	3/8	3 1/4		N/A		9	3/8	3 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	244	0	241	7'-5"		
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2		N/A		8	3/8	3 1/4		N/A			N/A		11	1/2	4 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	276	0	274	8'-5"		
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/4	5 1/2		N/A		N/A		N/A		N/A			N/A		10	1/2	4 1/4		N/A		8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	34	3/16	0	309	0	306	9'-5"		
13'-5"	1 3/16	0.344	CP0630	445	8	1/2	13		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	1/2	6 13/16	12	18	9/16" x 3/4"	15	10	6	N/A	1/4	1304	438	1254	439	13'-5"		
14'-5"	1 1/4	0.406	CP0630	446	8	5/8	18		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	12	18	11/16" x 7/8"	21	15	7	5	5/16	1569	471	1525	472	14'-5"		
15'-5"	1 5/16	0.469	CP0630 & CP0647	446	6	5/8	15		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	10	15	11/16" x 7/8"	17	12	6	N/A	5/16	1811	503	1771	504	15'-5"		
16'-5"	1 7/16	0.594	CP0630 & CP0647	546	6	5/8	14		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	10	15	11/16" x 7/8"	17	12	6	N/A	5/16	1868	535	1833	537	16'-5"		
17'-5"	1 1/2	0.656	CP0630 & CP0647	546	6	5/8	13		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	9	14	11/16" x 7/8"	14	10	5	N/A	5/16	2087	568	2055	569	17'-5"		
18'-5"	1 5/8	0.781	CP0630 & CP0647	546	6	5/8	12		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	8	13	11/16" x 7/8"	14		9	5	N/A	5/16	2163	600	2135	601	18'-5"	
19'-5"	1 7/8	1.031	CP0630 & CP0647	546	6	5/8	12		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A	5/16	2061	631	2039	633	19'-5"		
20'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	17		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	3/4	7 1/2	14	16	7/8" x 1"	33	24	11	8	3/8	2184	664	2156	665	20'-5"		
21'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	17		N/A			N/A		N/A		N/A		N/A			N/A		N/A		N/A		N/A		8	3/4	7 1/2	14	17	7/8" x 1"	33	24	11	8	3/8	2160	696	2136	696	21'-5"		

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 65 PSF - Continued																																														
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																														
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.	Through Bolting - Stainless Steel Max O.C.	Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To					
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.			Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.							
4'-5"	344*		N/A		21	2 3/8	4	20	2 3/8	3 3/4	21	2 1/2	4	27	2 1/2	4	19	2 1/4	4	34	3 1/2	4 3/4			36		35		N/A		18	1 7/8	3 1/4	20	2 1/2	4	28	2 1/2	4	29	2 1/2	4	5 3/4	4'-5"		
5'-5"	344*		N/A		19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4			36		29		N/A		16	1 7/8	3 1/4	18	2 1/2	4	26	2 1/2	4	26	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*		N/A		17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	23	3 1/2	4 3/4			31		24		N/A		15	1 7/8	3 1/4	17	2 1/2	4	23	2 1/2	4	24	2 1/2	4	5 3/4	6'-5"		
7'-5"	344*		N/A		16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4			27		21		N/A		14	1 7/8	3 1/4	16	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	7'-5"		
8'-5"	344*		N/A		15	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	19	2 1/2	4	10	2 1/4	4	17	3 1/2	4 3/4			24		18		N/A		13	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	21	2 1/2	4	5 3/4	8'-5"		
9'-5"	344*		N/A		13	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	9	2 1/4	4	16	3 1/2	4 3/4			21		16		N/A		12	1 7/8	3 1/4	14	2 1/2	4	19	2 1/2	4	20	2 1/2	4	5 3/4	9'-5"		
13'-5"	445	10	3 7/8	6	7	3 5/8	6	8	3 3/4	6	7	3 3/4	5 1/2	9	4 1/4	6 3/4	9	4	6	11	4 1/4	5 1/2			32		22		9	3 7/8	6		N/A		9	3 3/4	5 1/2	7	4	6 1/4	6 13/16	13'-5"				
14'-5"	446	15	5 1/8	7 7/8	9	4 1/2	6	8	4 5/8	7	9	4 1/2	6	11	5	7		N/A		12	5	6 1/4			36		34		11	5 1/8	7 7/8		N/A		9	4 1/2	6		N/A		10	5 1/2	8 1/2	6 7/8	14'-5"	
15'-5"	446	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	6	4 1/2	6	10	5	7		N/A		9	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	15'-5"	
16'-5"	546	9	5 1/8	7 7/8	6	4 1/2	6	6	4 5/8	7	6	4 1/2	6	9	5	7		N/A		8	5	6 1/4			36		26		8	5 1/8	7 7/8		N/A		6	4 1/2	6		N/A		8	5 1/2	8 1/2	6 7/8	16'-5"	
17'-5"	546	8	5 1/8	7 7/8		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			N/A		7	5 1/2	8 1/2	6 7/8	17'-5"	
18'-5"	546	7	5 1/8	7 7/8		N/A			N/A			N/A		7	5	7		N/A		N/A					30		20			N/A			N/A			N/A			N/A		6	5 1/2	8 1/2	6 7/8	18'-5"	
19'-5"	546	8	5 1/8	7 7/8		N/A			N/A			N/A		8	5	7		N/A		N/A					31		21		7	5 1/8	7 7/8		N/A			N/A			N/A		7	5 1/2	8 1/2	6 7/8	19'-5"	
20'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8		N/A		9	5 1/2	8	11	6 1/4	8 1/8		N/A		12	6 5/8	7 7/8			36		36		11	5 3/4	8 3/4		N/A		8	5 1/2	8		N/A		10	6 1/4	10	7 1/2	20'-5"	
21'-5"	548	11	5 3/4	8 3/4	7	5 1/2	8		N/A		9	5 1/2	8	11	6 1/4	8 1/8		N/A		12	6 5/8	7 7/8			36		36		11	5 3/4	8 3/4		N/A		8	5 1/2	8		N/A		10	6 1/4	10	7 1/2	21'-5"	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 70 PSF																																												
Guide Construction								Filled CMU																		Steel (Wall anchors are the same diameter as assembly fasteners)																		
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	3/8	3	8	5/8	3 3/8	10	5/8	4 3/8	15	3/8	3 1/4	14	3/4	5 1/2	14	3/8	3 1/4	9	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	158	0	155	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	5/8	4 1/2	N/A			8	5/8	4 3/8	12	3/8	3 1/4	N/A			12	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	193	0	190	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	228	0	225	6'-5"
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A			N/A			8	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	263	0	260	7'-5"
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A			N/A			13	1/2	4 1/4	N/A			10	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	35	3/16	0	298	0	295	8'-5"	
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A			N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	31	3/16	0	333	0	330	9'-5"
13'-5"	1 3/16	0.344	CP0630	446	8	5/8	18		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	12	18	11/16" x 7/8"	22	16	7	5	5/16	1521	472	1468	473	13'-5"
14'-5"	1 1/4	0.406	CP0630 & CP0647	446	6	5/8	15		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	10	15	11/16" x 7/8"	18	12	6	N/A	5/16	1790	507	1743	508	14'-5"
15'-5"	1 5/16	0.469	CP0630 & CP0647	546	6	5/8	14		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	14	11/16" x 7/8"	15	10	5	N/A	5/16	2038	542	1995	544	15'-5"
16'-5"	1 7/16	0.594	CP0630 & CP0647	546	6	5/8	13		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	5/8	6 7/8	9	14	11/16" x 7/8"	14	10	5	N/A	5/16	2088	577	2052	578	16'-5"
17'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	17		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	15	7/8" x 1"	31	22	11	7	3/8	2331	613	2284	613	17'-5"
18'-5"	1 5/8	0.781	CP0630 & CP0647	548	6	3/4	17		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	15	7/8" x 1"	30	21	10	7	3/8	2404	648	2362	648	18'-5"
19'-5"	1 7/8	1.031	CP0630 & CP0647	548	6	3/4	17		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	14	16	7/8" x 1"	31	23	11	8	3/8	2286	681	2253	681	19'-5"
20'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	16		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	15	7/8" x 1"	30	21	10	7	3/8	2401	716	2371	716	20'-5"
21'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	15		N/A		N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	15	7/8" x 1"	30	21	10	7	3/8	2370	749	2346	750	21'-5"

CA1245 - 0.0405_0.062 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.									
4'-5"	344*	N/A			20	2 3/8	4	19	2 3/8	3 3/4	20	2 1/2	4	26	2 1/2	4	18	2 1/4	4	31	3 1/2	4 3/4	36		33		N/A			17	1 7/8	3 1/4	20	2 1/2	4	27	2 1/2	4	28	2 1/2	4	5 3/4	4'-5"			
5'-5"	344*	N/A			18	2 3/8	4	17	2 3/8	3 3/4	18	2 1/2	4	23	2 1/2	4	15	2 1/4	4	25	3 1/2	4 3/4	34		27		N/A			15	1 7/8	3 1/4	18	2 1/2	4	25	2 1/2	4	25	2 1/2	4	5 3/4	5'-5"			
6'-5"	344*	N/A			16	2 3/8	4	16	2 3/8	3 3/4	16	2 1/2	4	22	2 1/2	4	12	2 1/4	4	21	3 1/2	4 3/4	29		22		N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	6'-5"			
7'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	25		19		N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	7'-5"			
8'-5"	344*	N/A			14	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	16	3 1/2	4 3/4	22		17		N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	8'-5"			
9'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	14	3 1/2	4 3/4	20		15		N/A			N/A			13	2 1/2	4	5	2 1/2	4	19	2 1/2	4	5 3/4	9'-5"			
13'-5"	446	16	5 1/8	7 7/8	9	4 1/2	6	9	4 5/8	7	9	4 1/2	6	16	5	7	N/A			12	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 7/8	13'-5"			
14'-5"	446	10	5 1/8	7 7/8	7	4 1/2	6	6	4 5/8	7	7	4 1/2	6	10	5	7	N/A			9	5	6 1/4	36		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	14'-5"			
15'-5"	546	8	5 1/8	7 7/8	5	4 1/2	6	N/A			N/A			8	5	7	N/A			N/A			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	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			N/A			7	5 1/2	8 1/2	6 7/8	16'-5"			
17'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4	N/A			N/A			7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	17'-5"
18'-5"	548	10	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			9	6 5/8	7 7/8	36		36		10	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	18'-5"
19'-5"	548	10	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	10	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		36		11	5 3/4	8 3/4	N/A			N/A			7	5 1/2	8	N/A			10	6 1/4	10	7 1/2	19'-5"
20'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			8	6 5/8	7 7/8	36		35		10	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	20'-5"
21'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			8	6 5/8	7 7/8	36		34		10	5 3/4	8 3/4	N/A			N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	21'-5"

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405 0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																																												
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt T22 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt			Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		Slot Max O.C.	Heel and Toe Max O.C.	Slot Size	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Carbon Steel - Max O.C.	Stainless Steel - Max O.C.	Min Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	1/2	3 3/4	N/A	N/A	9	5/8	4 3/8	13	3/8	3 1/4	12	3/4	5 1/2	12	3/8	3 1/4	8	3/4	5 1/2	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	180	0	177	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A	N/A	8	3/4	5 1/4	10	3/8	3 1/4	N/A	N/A	N/A	10	3/8	3 1/4	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	220	0	217	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A	N/A	9	3/8	3 1/4	N/A	N/A	N/A	12	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	260	0	257	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A	N/A	13	1/2	4 1/4	N/A	N/A	N/A	10	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	35	3/16	0	300	0	297	7'-5"	
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A	N/A	11	1/2	4 1/4	N/A	N/A	N/A	9	1/2	4 1/4	N/A	N/A	N/A	N/A	N/A	N/A	8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	31	3/16	0	340	0	337	8'-5"	
13'-5"	1 3/16	0.344	CP0630 & CP0647	546	6	5/8	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	9	14	11/16" x 7/8"	16	11	6	N/A	5/16	1954	540	1896	541	13'-5"	
14'-5"	1 1/4	0.406	CP0630 & CP0647	546	6	5/8	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	8	12	11/16" x 7/8"	13	9	5	N/A	5/16	2232	580	2180	582	14'-5"		
15'-5"	1 5/16	0.469	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	13	14	7/8" x 1"	28	20	10	7	3/8	2512	622	2446	622	15'-5"		
16'-5"	1 7/16	0.594	CP0630 & CP0647	548	6	3/4	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	12	14	7/8" x 1"	28	20	10	7	3/8	2548	661	2491	661	16'-5"		
17'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	11	13	7/8" x 1"	25	17	9	6	3/8	2790	702	2738	702	17'-5"		
18'-5"	1 5/8	0.781	CP0630 & CP0647	648	6	3/4	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	11	12	7/8" x 1"	24	16	9	6	3/8	2860	741	2814	741	18'-5"		
19'-5"	1 7/8	1.031	CP0630 & CP0647	648	6	3/4	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	11	13	7/8" x 1"	25	18	9	6	3/8	2714	779	2676	779	19'-5"		
20'-5"	2	1.156	CP0630 & CP0647	648	6	3/4	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	2835	818	2802	819	20'-5"		
21'-5"	2 1/4	1.406	CP0630 & CP0647	648	6	3/4	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	11	13	7/8" x 1"	24	17	9	6	3/8	2791	857	2764	857	21'-5"		

CA1245 - 0.0405 0.062 Minimum Thickness Galvanized or Stainless Steel - 80 PSF - Continued																																												
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																												
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt TZ2			Hilti KH-EZ			ITW Redhead Trubolt			Hilti HVU2			Through Bolting - Carbon Steel Max O.C.		Through Bolting - Stainless Steel Max O.C.		Simpson Strong-Bolt 2 Stainless Steel			Powers Power-Stud+ SD4 Stainless Steel			Hilti Kwik Bolt TZ2 Stainless Steel			Hilti KH-EZ Stainless Steel			Simpson Titen HD Stainless Steel			Min. Edge Distance	D.B.G. Up To	
		Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.							
4'-5"	344*	N/A			19	2 3/8	4	18	2 3/8	3 3/4	19	2 1/2	4	24	2 1/2	4	16	2 1/4	4	27	3 1/2	4 3/4	36	28		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 3/4	4'-5"		
5'-5"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	13	2 1/4	4	22	3 1/2	4 3/4	30	23		N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	11	2 1/4	4	19	3 1/2	4 3/4	25	20		N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	6'-5"		
7'-5"	344*	N/A			13	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	16	3 1/2	4 3/4	22	17		N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	7'-5"		
8'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	18	2 1/2	4	8	2 1/4	4	14	3 1/2	4 3/4	19	15		N/A			N/A		13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 3/4	8'-5"			
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	36	25		7	5 1/8	7 7/8	N/A		5	3 3/4	5 1/2	N/A			7	5 1/2	8 1/2	6 7/8	13'-5"	
14'-5"	546	6	5 1/8	7 7/8	N/A			N/A			N/A			N/A			N/A			N/A			30			20		N/A			N/A		5	5 1/2	8 1/2	6 7/8	14'-5"							
15'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			6			5 1/2	8	8	6 1/4	8 1/8	N/A			7	6 5/8	7 7/8	36	35		9	5 3/4	8 3/4	N/A		5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	15'-5"	
16'-5"	548	9	5 3/4	8 3/4	N/A			N/A			6			5 1/2	8	8	6 1/4	8 1/8	N/A			6	6 5/8	7 7/8	36	34		9	5 3/4	8 3/4	N/A		5	5 1/2	8	N/A			8	6 1/4	10	7 1/2	16'-5"	
17'-5"	548	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			30		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			28		7	5 3/4	8 3/4	N/A		N/A		N/A			6	6 1/4	10	7 1/2	18'-5"
19'-5"	648	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	19'-5"
20'-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	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			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"



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

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

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

TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 50/52

DWG NO: ES-16-142-CLO

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405_0.062 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 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"	N/A	N/A	N/A	344*	N/A	3/8	24	9	5/8	4 1/2	N/A		8	5/8	4 3/8	11	3/8	3 1/4	N/A			11	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	203	0	199	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	15	3/4	5 1/2	N/A		N/A			9	3/8	3 1/4	N/A			9	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	248	0	244	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	13	3/4	5 1/2	N/A		N/A			8	3/8	3 1/4	N/A			11	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	293	0	289	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A		N/A			11	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	31	3/16	0	338	0	334	7'-5"	
13'-5"	1 3/16	0.344	CP0630 & CP0647	548	6	3/4	18		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	13	14	7/8" x 1"	30	21	10	7	3/8	2415	610	2325	610	13'-5"	
14'-5"	1 1/4	0.406	CP0630 & CP0647	548	6	3/4	16		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	12	13	7/8" x 1"	26	18	9	6	3/8	2699	656	2619	655	14'-5"	
15'-5"	1 5/16	0.469	CP0630 & CP0647	648	6	3/4	14		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	12	7/8" x 1"	23	15	8	6	3/8	2968	701	2896	701	15'-5"	
16'-5"	1 7/16	0.594	CP0630 & CP0647	648	6	3/4	14		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	10	12	7/8" x 1"	22	15	8	6	3/8	2991	745	2929	745	16'-5"	
17'-5"	1 1/2	0.656	CP0630 & CP0647	DC6	5	3/4	13		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	10	11	7/8" x 1"	20	13	7	5	3/8	3249	790	3192	790	17'-5"	
18'-5"	1 5/8	0.781	CP0630 & CP0647	DC6	5	3/4	12		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	9	11	7/8" x 1"	19	13	7	5	3/8	3316	834	3265	834	18'-5"	
19'-5"	1 7/8	1.031	CP0630 & CP0647	DC6	5	3/4	12		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	10	11	7/8" x 1"	21	14	8	5	3/8	3141	877	3100	877	19'-5"	
20'-5"	2	1.156	CP0630 & CP0647	DC6	5	3/4	11		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	9	11	7/8" x 1"	20	13	7	5	3/8	3269	921	3233	922	20'-5"	
21'-5"	2 1/4	1.406	CP0630 & CP0647	DC6	5	3/4	11		N/A		N/A		N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	10	11	7/8" x 1"	20	13	7	5	3/8	3212	964	3182	965	21'-5"	

CA1245 - 0.0405_0.062 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"	344*	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	33		25	N/A			15	1 7/8	3 1/4	17	2 1/2	4	24	2 1/2	4	24	2 1/2	4	5 3/4	4'-5"	
5'-5"	344*	N/A			16	2 3/8	4	15	2 3/8	3 3/4	16	2 1/2	4	21	2 1/2	4	11	2 1/4	4	20	3 1/2	4 3/4	27		21	N/A			14	1 7/8	3 1/4	15	2 1/2	4	22	2 1/2	4	22	2 1/2	4	5 3/4	5'-5"	
6'-5"	344*	N/A			14	2 3/8	4	12	2 3/8	3 3/4	14	2 1/2	4	19	2 1/2	4	9	2 1/4	4	17	3 1/2	4 3/4	22		17	N/A			12	1 7/8	3 1/4	14	2 1/2	4	20	2 1/2	4	20	2 1/2	4	5 3/4	6'-5"	
7'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	13	2 1/2	4	18	2 1/2	4	8	2 1/4	4	14	3 1/2	4 3/4	19		15	N/A						13	2 1/2	4	5	2 1/2	4	19	3 1/4	5	5 3/4	7'-5"	
13'-5"	548	9	5 3/4	8 3/4	5	5 1/2	8	N/A			7	5 1/2	8	9	6 1/4	8 1/8	N/A			8	6 5/8	7 7/8	36		36	10	5 3/4	8 3/4	N/A			6	5 1/2	8	N/A			9	6 1/4	10	7 1/2	13'-5"	
14'-5"	548	7	5 3/4	8 3/4	N/A			N/A			5	5 1/2	8	7	6 1/4	8 1/8	N/A			N/A			36		32	8	5 3/4	8 3/4	N/A			N/A			7	6 1/4	10	7 1/2	14'-5"				
15'-5"	648	6	5 3/4	8 3/4	N/A			N/A			N/A			5	6 1/4	8 1/8	N/A			N/A			36		27	N/A			N/A			N/A			5	6 1/4	10	7 1/2	15'-5"				
16'-5"	648	5	5 3/4	8 3/4	N/A			N/A			N/A			5	6 1/4	8 1/8	N/A			N/A			36		27	N/A			N/A			N/A			5	6 1/4	10	7 1/2	16'-5"				
17'-5"	DC6	9	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	8	6 1/4	8 1/8	N/A			9	6 5/8	7 7/8	36		36	10	5 3/4	8 3/4	8	4 1/2	6	8	5 1/2	8	N/A			8	6 1/4	10	9 1/4	17'-5"	
18'-5"	DC6	9	5 3/4	8 3/4	6	5 1/2	8	N/A			8	5 1/2	8	8	6 1/4	8 1/8	N/A			9	6 5/8	7 7/8	36		34	9	5 3/4	8 3/4	7	4 1/2	6	7	5 1/2	8	N/A			8	6 1/4	10	9 1/4	18'-5"	
19'-5"	DC6	10	5 3/4	8 3/4	7	5 1/2	8	N/A			9	5 1/2	8	9	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36		36	10	5 3/4	8 3/4	8	4 1/2	6	8	5 1/2	8	N/A			9	6 1/4	10	9 1/4	19'-5"	
20'-5"	DC6	9	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	8	6 1/4	8 1/8	N/A			9	6 5/8	7 7/8	36		34	10	5 3/4	8 3/4	7	4 1/2	6	7	5 1/2	8	N/A			8	6 1/4	10	9 1/4	20'-5"	
21'-5"	DC6	9	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	8	6 1/4	8 1/8	N/A			9	6 5/8	7 7/8	36		34	10	5 3/4	8 3/4	8	4 1/2	6	7	5 1/2	8	N/A			8	6 1/4	10	9 1/4	21'-5"	



CLOPAY CORPORATION
8585 DUKE BOULEVARD
MASON, OH 45040

P: 800.225.6729
F: 513.440.4853

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

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

TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CA1245 SLAT NON-IMPACT RATED

DRAWN BY: KAD
SIZE: B
SCALE: AS NOTED
SHEET: 51/52

DWG NO: ES-16-142-CLO

REVIEWED FOR SPECIFIED DOOR COMPONENTS ONLY, EXISTING STRUCTURE NOT ANALYZED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	12/30/2025	KAD	2398
A	REVISED WINDLOAD TABLES	08/12/2026	KAD	2398

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 100 PSF																																													
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																						
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt			Tapped Bolt				Superimposed Loads				D.B.G. Up To
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.		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"	N/A	N/A	N/A	344*	N/A	3/8	24	8	5/8	4 1/2	N/A			8	3/4	5 1/4	10	3/8	3 1/4	N/A			10	3/8	3 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	225	0	221	4'-5"	
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A			N/A			8	3/8	3 1/4	N/A			11	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	275	0	271	5'-5"	
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	12	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	325	0	321	6'-5"	
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			8	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	34	28	3/16	0	375	0	371	7'-5"	
13'-5"	1 3/16	0.344	CP0630 & CP0647	548	6	3/4	15				N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	7 1/2	11	12	7/8" x 1"	24	17	9	6	3/8	2850	679	2753	678	13'-5"	
14'-5"	1 1/4	0.406	CP0630 & CP0647	DC6	5	3/4	14				N/A			N/A			N/A			N/A			N/A			N/A			8	3/4	9 1/4	10	11	7/8" x 1"	21	14	8	5	3/8	3143	729	3057	729	14'-5"	

CA1245 - 0.0405_0.062 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"	344*	N/A			17	2 3/8	4	16	2 3/8	3 3/4	17	2 1/2	4	22	2 1/2	4	12	2 1/4	4	22	3 1/2	4 3/4	29	23	N/A			14	1 7/8	3 1/4	16	2 1/2	4	23	2 1/2	4	23	2 1/2	4	5 3/4	4'-5"		
5'-5"	344*	N/A			15	2 3/8	4	13	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	24	18	N/A			13	1 7/8	3 1/4	15	2 1/2	4	20	2 1/2	4	21	2 1/2	4	5 3/4	5'-5"		
6'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	15	3 1/2	4 3/4	20	16	N/A			N/A	N/A	13	2 1/2	4	5	2 1/2	4	19	2 1/2	4	5 3/4	6'-5"			
7'-5"	344*	N/A			11	2 3/8	4	5	2 3/8	4	13	2 1/2	4	17	2 1/2	4	5	2 1/4	4	13	3 1/2	4 3/4	17	13	N/A			N/A	N/A	12	2 1/2	4	5	2 1/2	4	18	3 1/4	5	5 3/4	7'-5"			
13'-5"	548	6	5 3/4	8 3/4	N/A			N/A			N/A			6	6 1/4	8 1/8	N/A			N/A			36	30	7			5 3/4	8 3/4	N/A			N/A			6	6 1/4	10	7 1/2	13'-5"			
14'-5"	DC6	10	5 3/4	8 3/4	7	5 1/2	8	N/A			8	5 1/2	8	9	6 1/4	8 1/8	N/A			10	6 5/8	7 7/8	36	36	10			5 3/4	8 3/4	8	4 1/2	6	8	5 1/2	8	N/A			9	6 1/4	10	9 1/4	14'-5"

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 120 PSF																																												
Guide Construction								Filled CMU															Steel (Wall anchors are the same diameter as assembly fasteners)																					
D.B.G. Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Flat Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt TZ2 Carbon & Stainless Steel			Powers Power-Stud+ SD1			Simpson Strong-Bolt 2			Hilti KH-EZ			Simpson Strong-Tie Titen			Hilti KH-EZ Stainless Steel			Simpson Strong-Tie Titen Stainless Steel			Through Bolting		Min. Edge Distance	Welded		Through Bolt		Tapped Bolt			Superimposed Loads				D.B.G. Up To	
								Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	Embed	Max O.C.	Dia.	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"	N/A	N/A	N/A	344*	N/A	3/8	24	14	3/4	5 1/2	N/A			N/A			8	3/8	3 1/4	N/A			12	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	36	3/16	0	270	0	265	4'-5"
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	3/4	5 1/2	N/A			N/A			12	1/2	4 1/4	N/A			9	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	36	32	3/16	0	330	0	325	5'-5"
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	10	3/4	5 1/2	N/A			N/A			9	1/2	4 1/4	N/A			8	1/2	4 1/4	N/A			8	3/8	5 3/4	36	36	7/16" x 5/8"	36	36	32	27	3/16	0	390	0	385	6'-5"

CA1245 - 0.0405_0.062 Minimum Thickness Galvanized or Stainless Steel - 120 PSF - Continued																																									
Concrete Minimum 4,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																																									
D.B.G. Up To	Guide Assembly	Simpson Strong-Bolt 2			Hilti Kwik Bolt 1			Powers Power-Stud+ SD1			Hilti Kwik Bolt 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"	344*	N/A			15	2 3/8	4	14	2 3/8	3 3/4	15	2 1/2	4	20	2 1/2	4	10	2 1/4	4	18	3 1/2	4 3/4	24	19	N/A			13	1 7/8	3 1/4	15	2 1/2	4	21	2 1/2	4	21	2 1/2	4	5 3/4	4'-5"
5'-5"	344*	N/A			12	2 3/8	4	11	2 3/8	3 3/4	14	2 1/2	4	18	2 1/2	4	8	2 1/4	4	15	3 1/2	4 3/4	20	15	N/A			N/A			13	2 1/2	4	5	2 1/2	4	19	2 1/4	4	5 3/4	5'-5"
6'-5"	344*	N/A			10	2 3/8	4	5	2 3/8	4	12	2 1/2	4	16	2 1/2	4	5	2 1/4	4	12	3 1/2	4 3/4	17	13	N/A			N/A			12	2 1/2	4	5	2 1/2	4	17	3 1/4	5	5 3/4	6'-5"