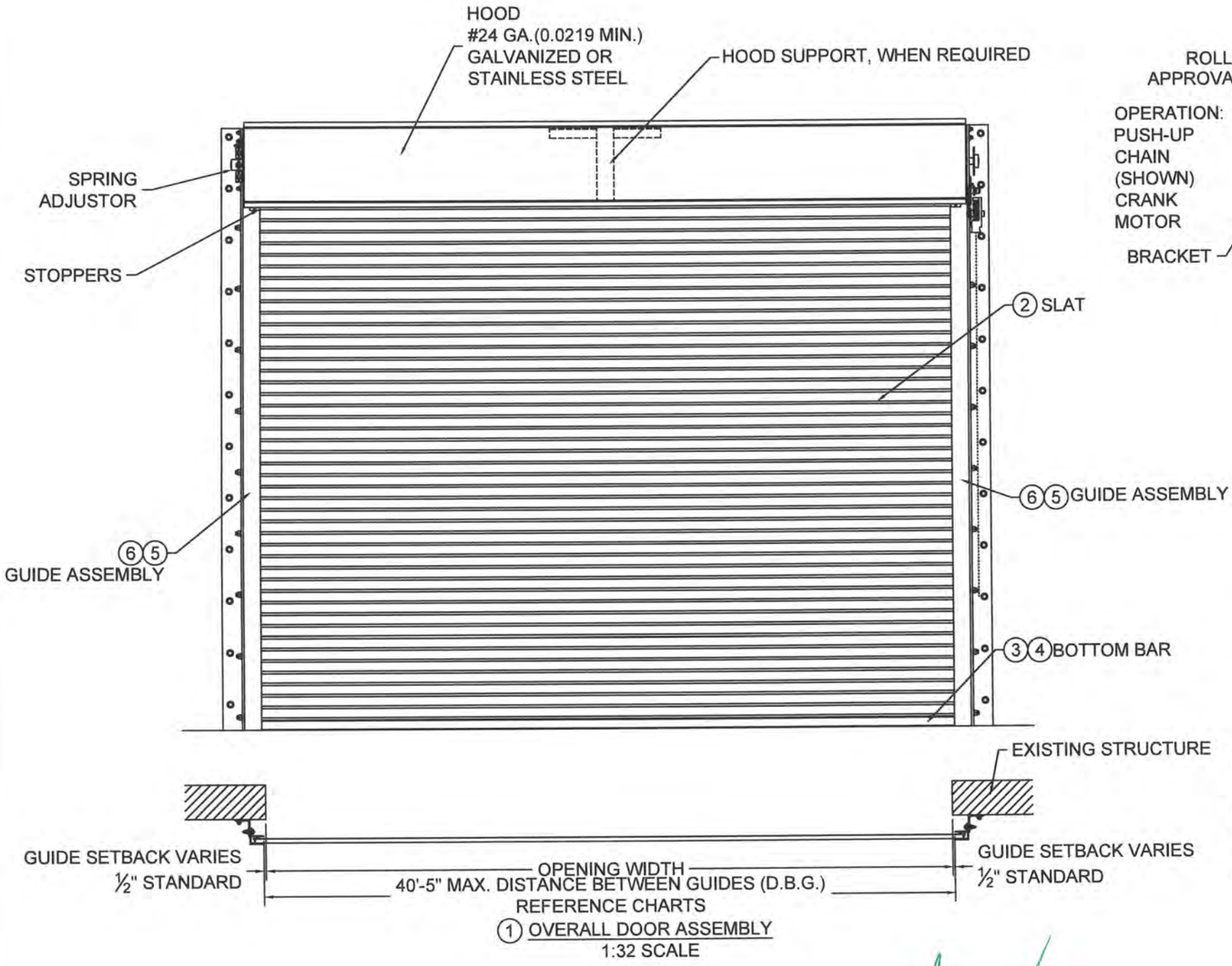
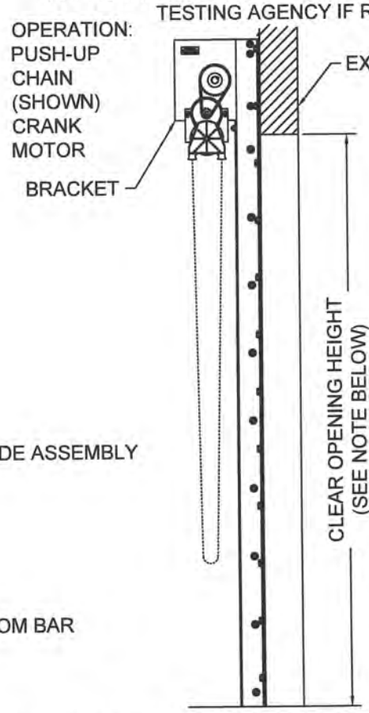
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	09/30/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

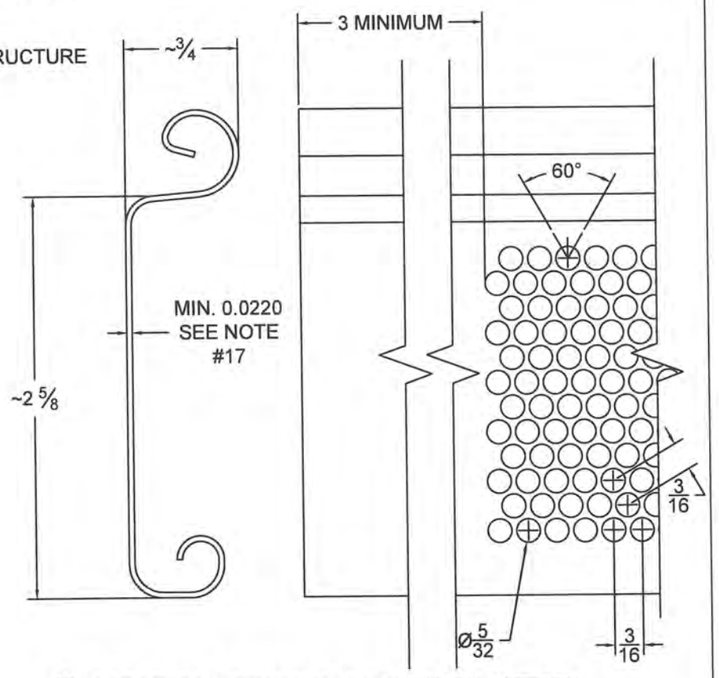


REFERENCE CHARTS

① OVERALL DOOR ASSEMBLY
1:32 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.



② SLAT DETAIL & OPTIONAL PERFORATION PATTERN
TYPICAL SECTION
ASTM A653 HSLAS TYPE B GRADE 40 G40 OR
ASTM A653 HSLAS TYPE A GRADE 40 G40 OR
ASTM A653 STRUCTURAL STEEL GRADE 40 G40
OR TYPE 304 STAINLESS STEEL (MIN. YIELD 40,000 psi)
OR TYPE 316 STAINLESS STEEL (MIN. YIELD 40,000 psi)
OR TYPE 430 STAINLESS STEEL (MIN. YIELD 40,000 psi)
OR TYPE 201 STAINLESS STEEL (MIN. YIELD 40,000 psi)
FULL SCALE

SHAWN PATRICK KELLEY
LICENSE
No 58299
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PROFESSIONAL ENGINEER
5/19/20

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	1/53

DWG NO: ES-16-62-CIW

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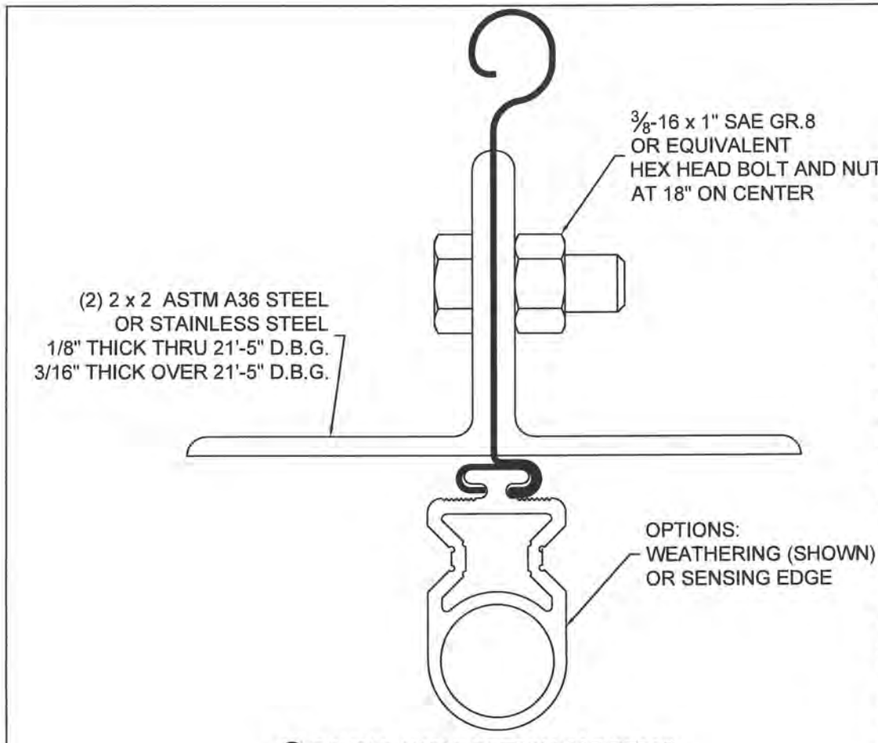
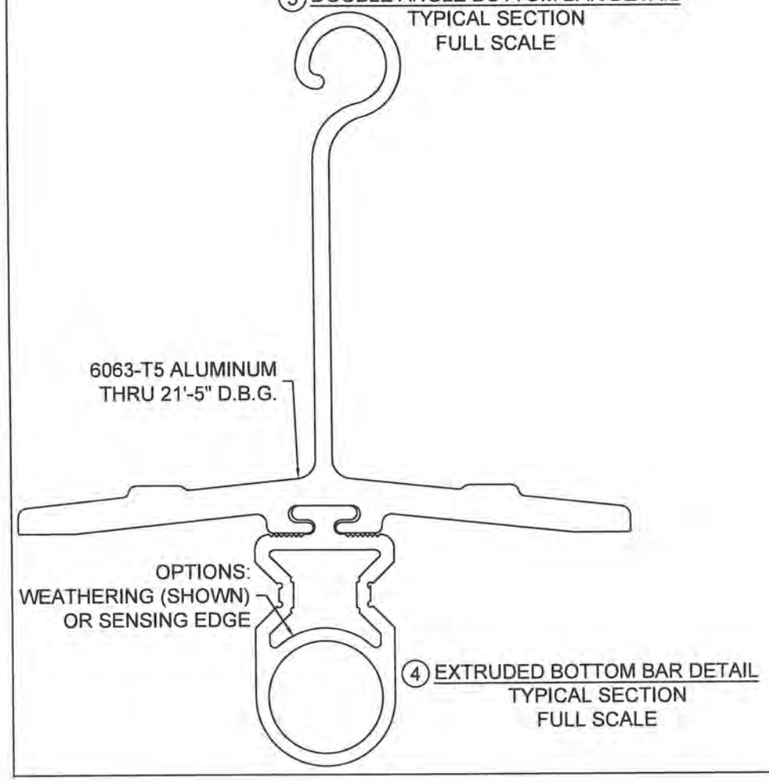


③ DOUBLE ANGLE BOTTOM BAR DETAIL
TYPICAL SECTION
FULL SCALE



④ EXTRUDED BOTTOM BAR DETAIL
TYPICAL SECTION
FULL SCALE

GENERAL NOTES:

1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE STANDARD BUILDING CODE, THE INTERNATIONAL BUILDING CODE, AND THE FLORIDA BUILDING CODE.

2. THIS ROLL-UP DOOR HAS BEEN TESTED FOR UNIFORM STATIC PRESSURE, IMPACT AND FATIGUE RESISTANCE IN ACCORDANCE WITH THE FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES TAS 201, TAS 202, AND TAS 203.

3. A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.

4. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.

5. THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.

6. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE AND EMBOSSED SEAL ON EACH PERMIT COPY, WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.

7. THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS Vx & Vy ON THE JAMBS OF THE DOOR.

8. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.

9. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.

10. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELEGATED REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND EMBOSSED SEAL OF THE DELEGATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW.

11. ALL HARDWARE SHALL BE GALVANIZED STEEL, PLATED STEEL OR STAINLESS STEEL

12. ALL WINDLOCK RIVETS SHALL BE 1/4" STEEL RIVETS IFI GRADE 30 WITH A MINIMUM TENSILE STRENGTH OF 1,850 Lbs., AND SHEAR STRENGTH OF 2,400 Lbs., U.O.N.. RIVETS TO BE INSTALLED IN ALL WINDLOCK HOLES.

13. ENDLOCKS/WINDLOCKS SHALL BE CAST MALLEABLE IRON TYPE 32510 PER ASTM A47 OR CAST DUCTILE IRON PER ASTM A536 GRADE 65-45-12.

14. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. MINIMUM WELDING PROCESSES SHALL BE ARC WELDING A.W.S. E7014 OR MIG WELDING A.W.S. ER70S-6.

15. ANCHOR NOTES:
A. EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.
B. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
C. ANCHOR CAPACITY FOR THIS ROLL-UP DOOR IS BASED ON MIN. 3,000 P.S.I. CONCRETE EXCEPT WHERE NOTED..
D. FOR MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE, REFER TO TABLES.

16. DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL

17. IF OPTIONAL PERFORATION PATTERN IS CHOSEN, MINIMUM SLAT THICKNESS IS 0.0405"

18. ALL SHAPES USED FOR GUIDE ASSEMBLIES MUST CONFORM TO ATSM A36 FOR STEEL OR ASTM A276 FOR TYPES 304 OR 316 WITH A MINIMUM 36 KSI YIELD STRENGTH.

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CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	2/53

DWG NO: ES-16-62-CIW

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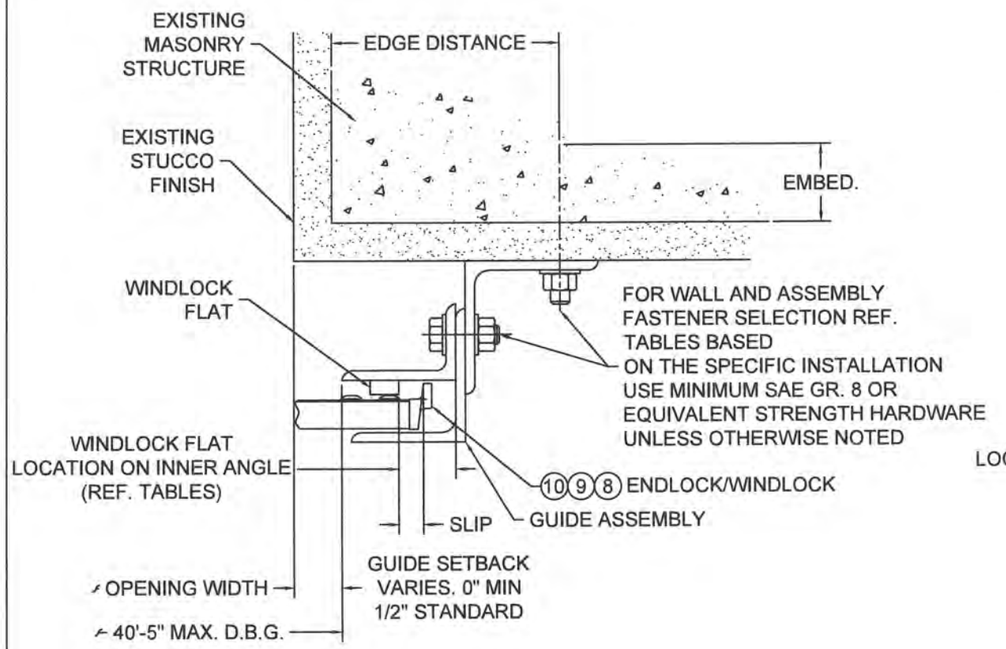
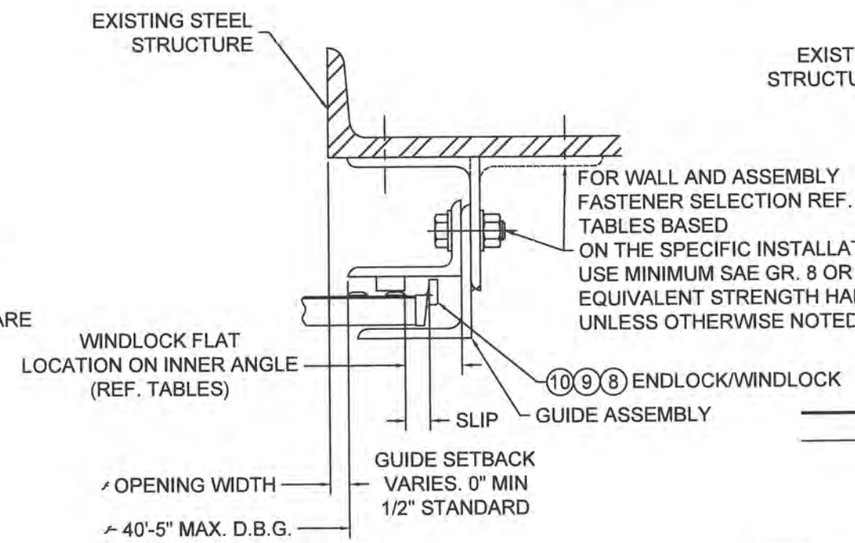
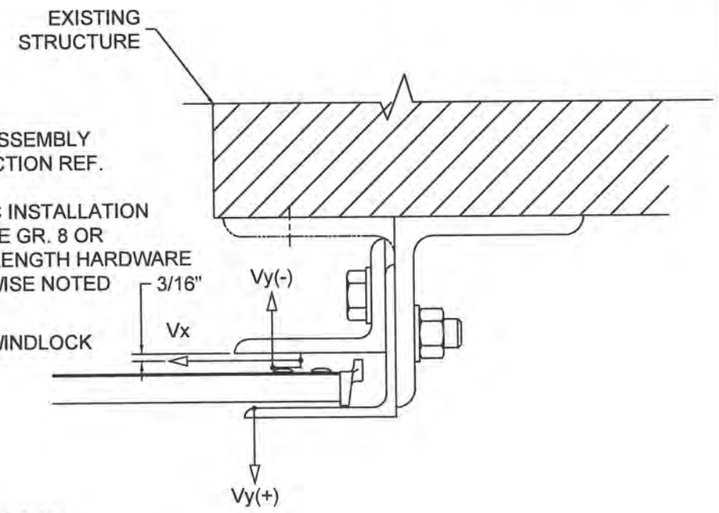


NOTE:
THROUGH BOLTING TO FILLED BLOCK REQUIRES THE USE OF 1/4" THICK STEEL OR STAINLESS STEEL CRUSH PLATE

⑤ GUIDE ASSEMBLY
CONCRETE OR FILLED BLOCK STRUCTURE
(Z-GUIDE)



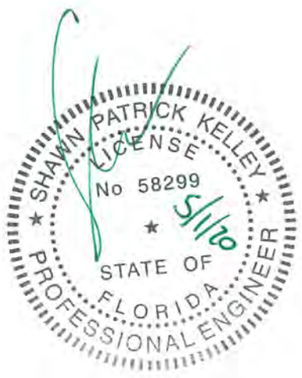
⑥ GUIDE ASSEMBLY
STEEL STRUCTURE
(Z-GUIDE OR E-GUIDE)



NOTE:

1. Vx & Vy ARE HORIZ. AND VERT. COMPONENTS OF THE REACTION, RESPECTIVELY, RESULTING FROM WIND LOADS ON THE ROLL-UP DOOR. THE EXISTING STRUCTURE SHALL BE CAPABLE OF RESISTING Vx & Vy FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE ECCENTRICITIES OF THE FORCES.

⑦ SUPERIMPOSED LOAD DIAGRAM
SCALE: 3" = 1'-0"



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CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
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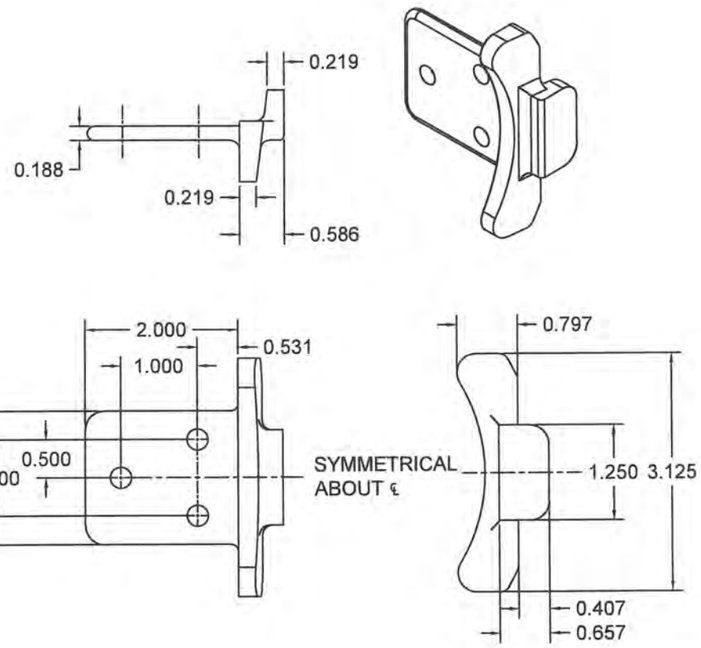
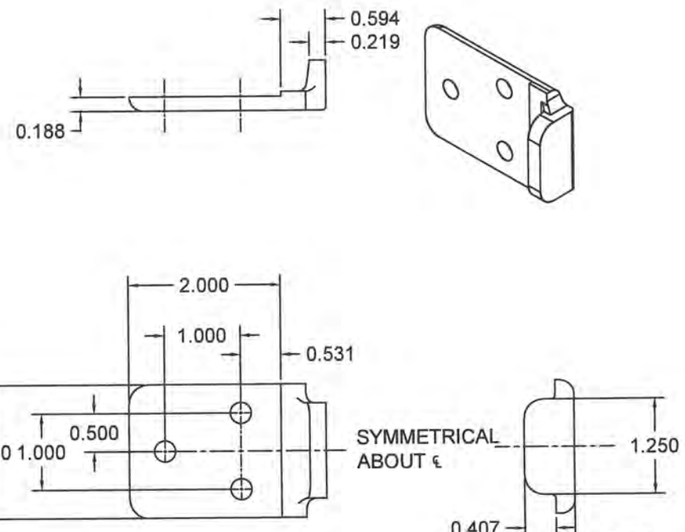
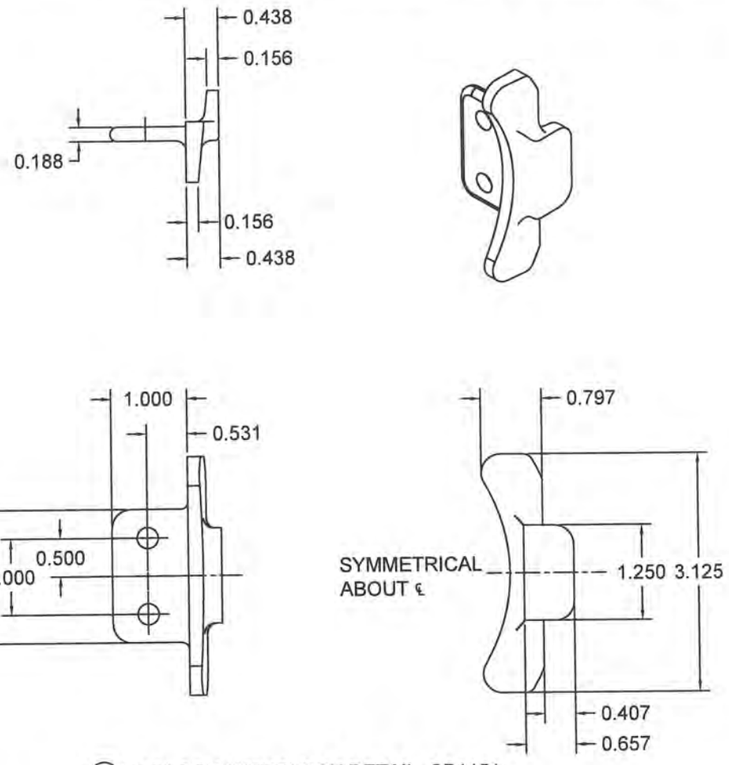


⑧ ENDLOCK / WINDLOCK DETAIL, CP1152
CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING
1/2 SCALE



⑨ WINDLOCK DETAIL, CP1153
CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING
1/2 SCALE



⑩ ENDLOCK / WINDLOCK DETAIL, CP1151
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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CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
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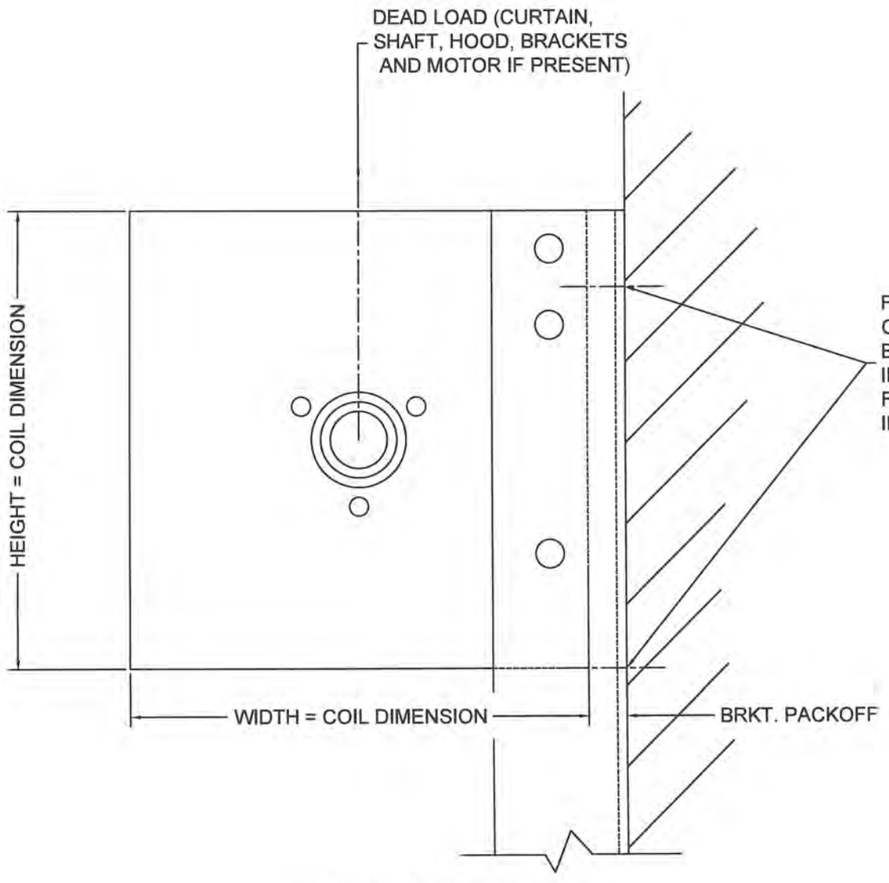
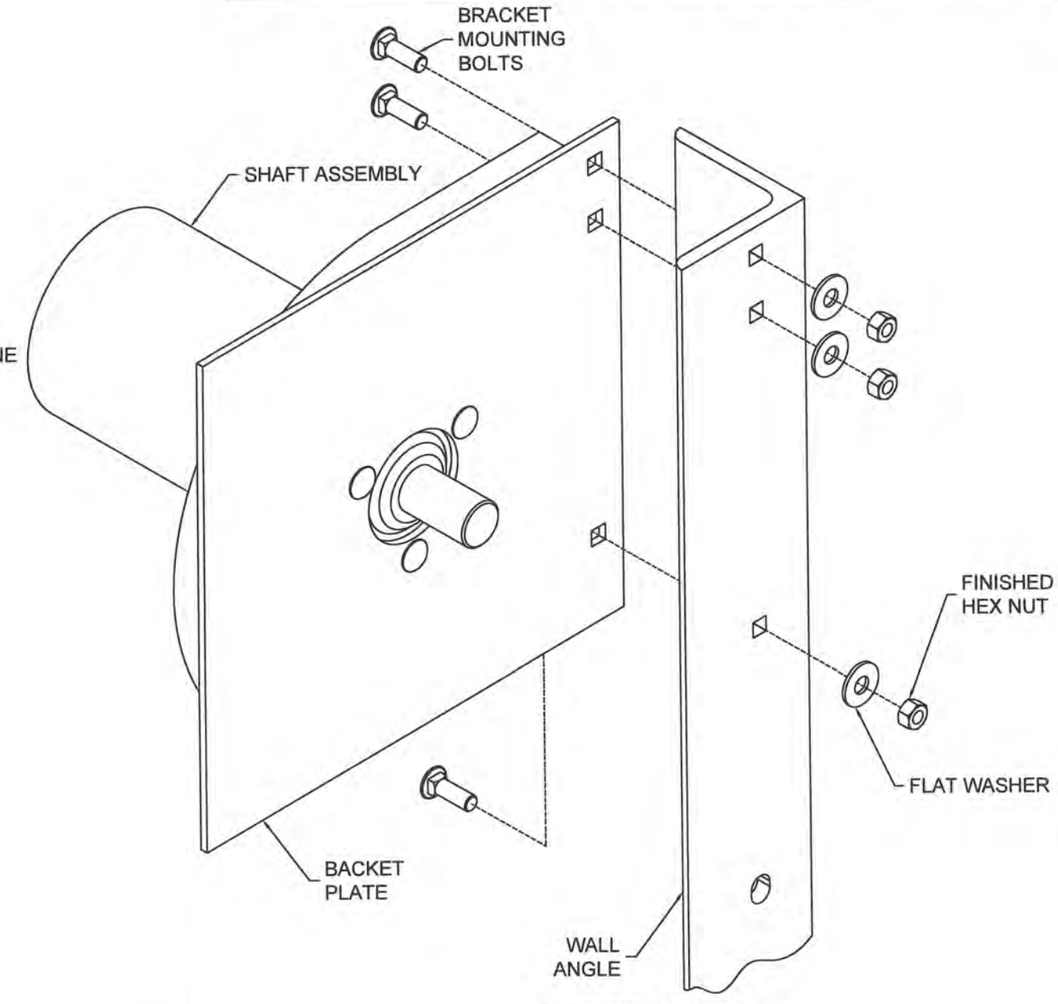


DOOR WEIGHT AND DIMENSIONS

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".



BRACKET MOUNTING

NOTE:

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

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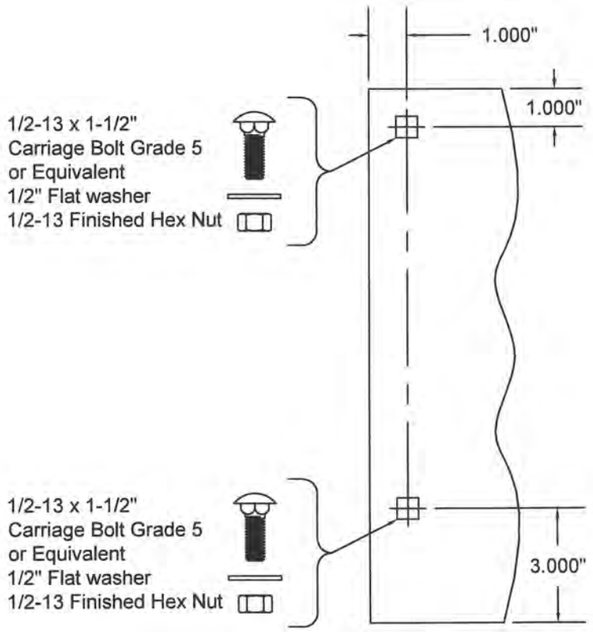
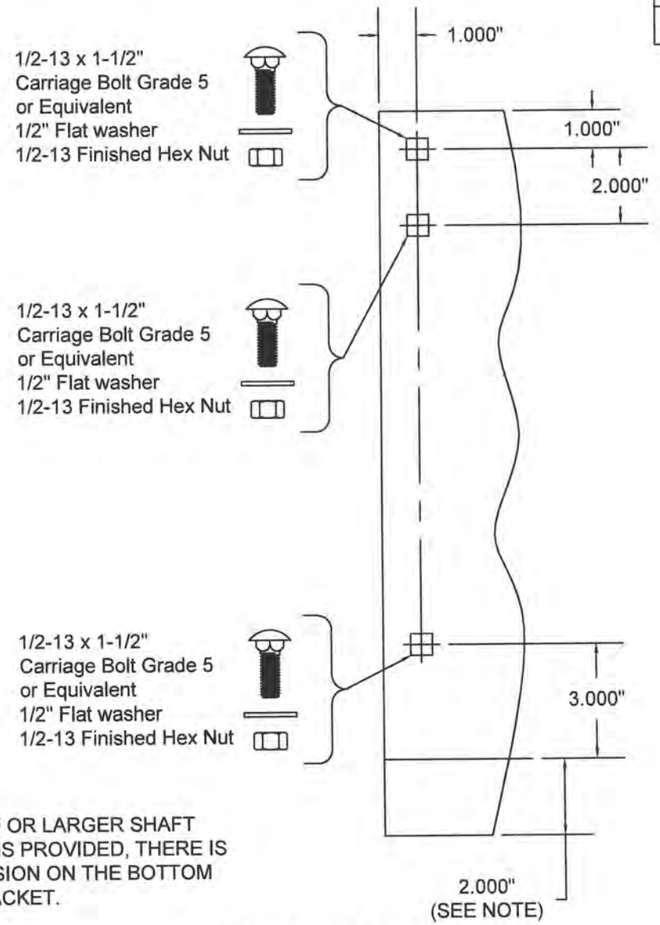
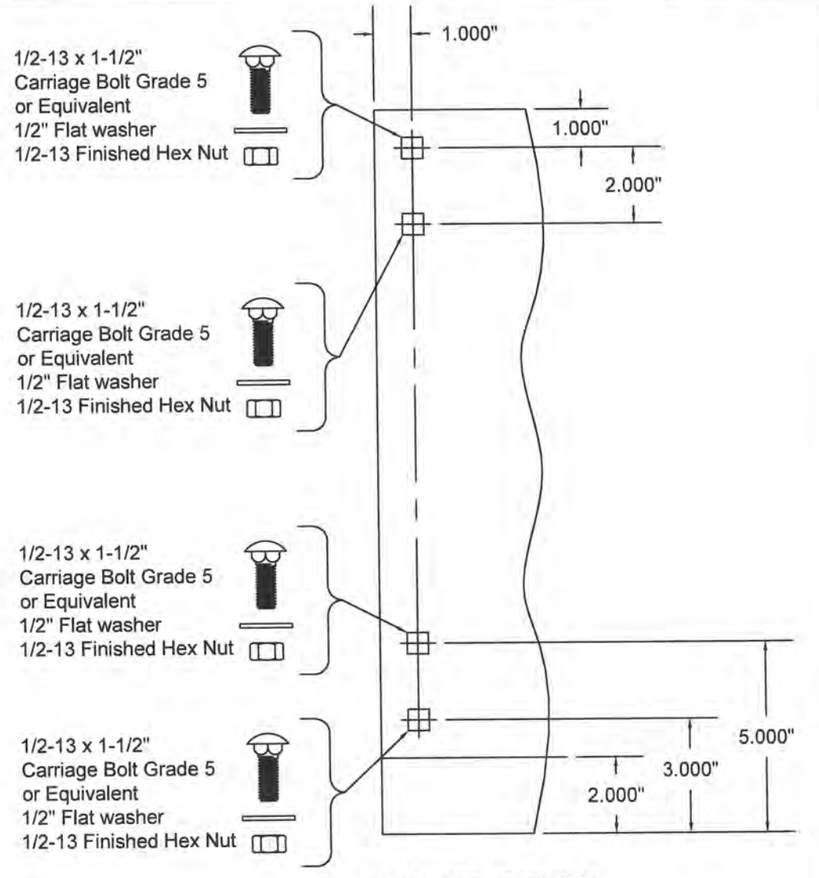


THRU 6"Ø SHAFT ASSEMBLY
14" THRU 16" COIL DIMENSION
MIN. THICKNESS 0.172" ASTM A36 STEEL
OR ASTM A480 STAINLESS STEEL,
TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
SCALE: 1-1/2" = 1'-0"



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

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



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

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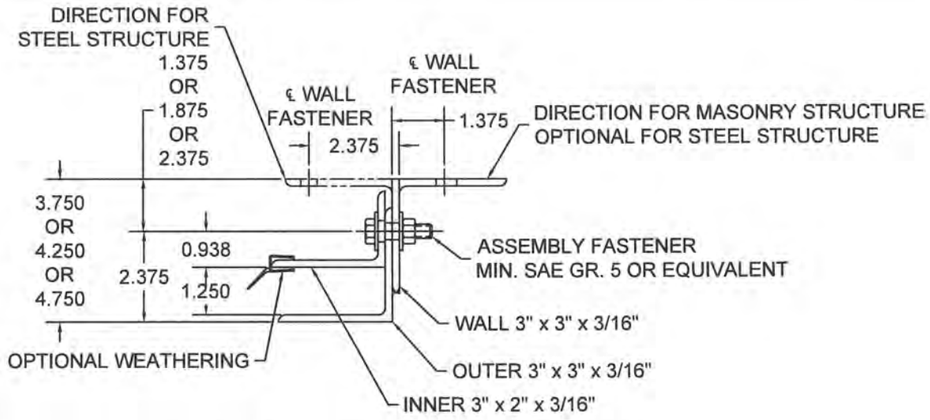
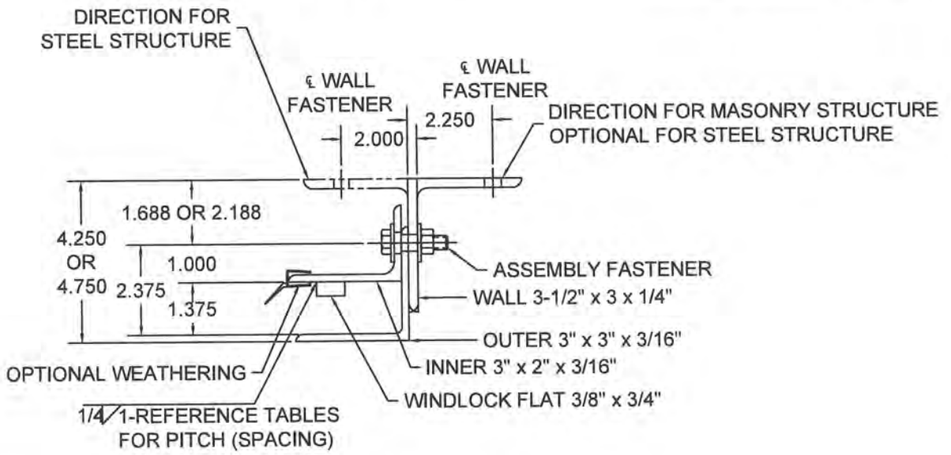
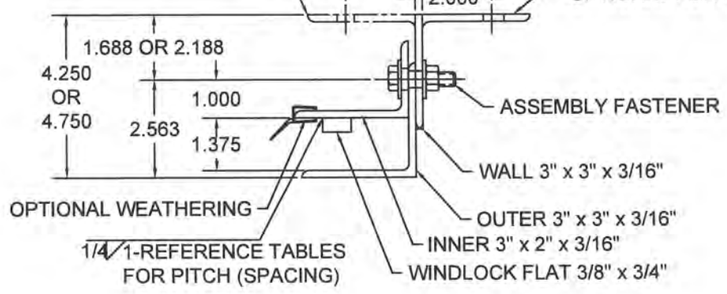


GUIDE ASSEMBLY TYPE 333* (NON-WINDLOCK)
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE 334
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE 333
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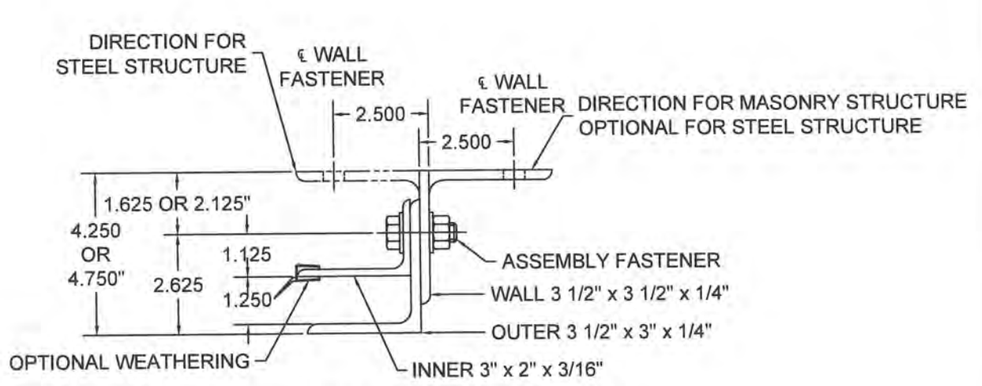
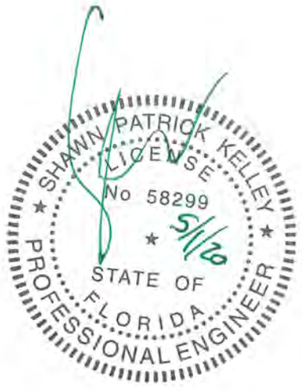


GUIDE ASSEMBLY TYPE 344* (NON-WINDLOCK)
SCALE: 3" = 1'-0"



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ANGLES = +/- 1/2 DEG

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CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	7/53

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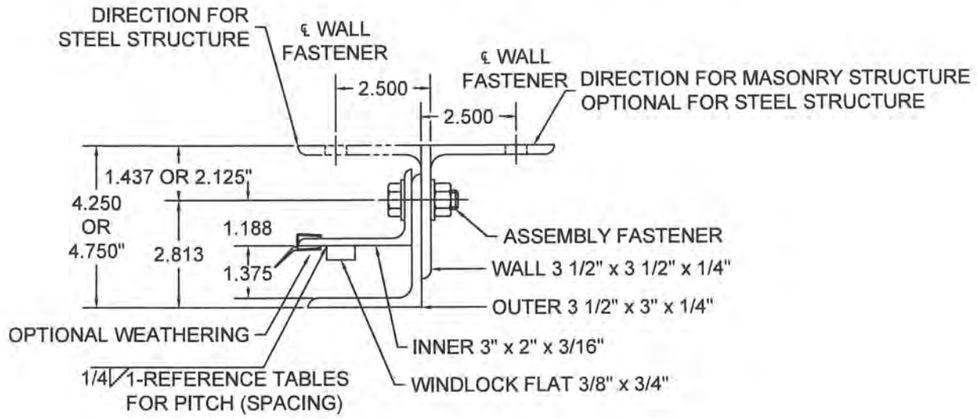
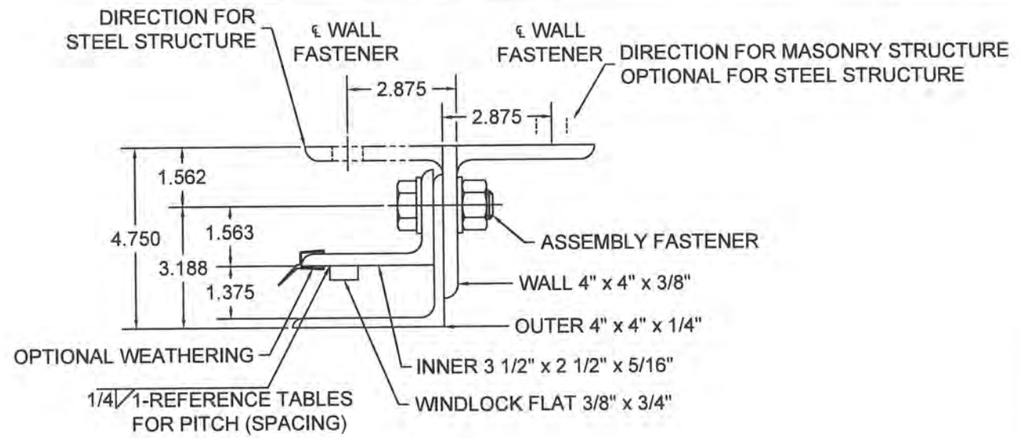
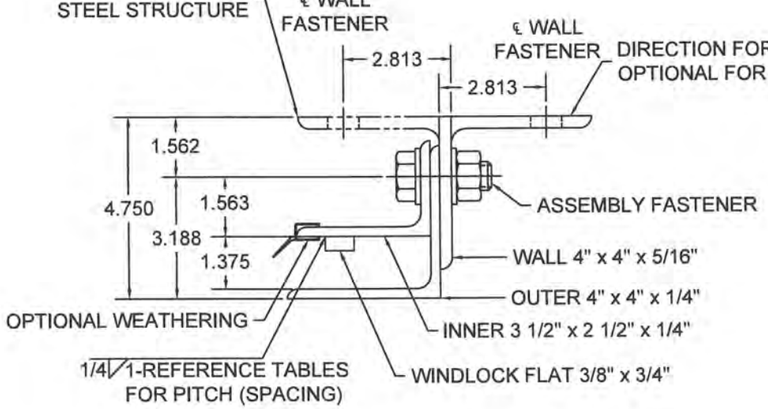


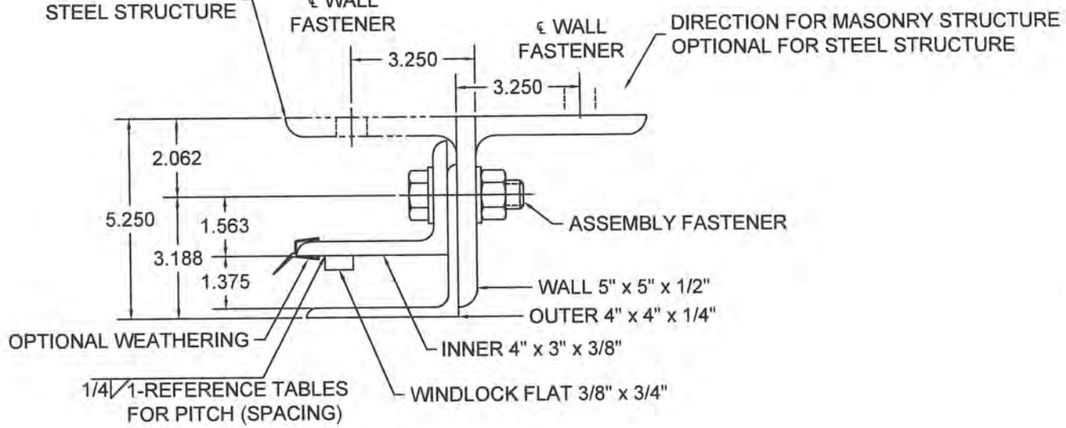
GUIDE ASSEMBLY TYPE 344
SCALE: 3" = 1'-0"



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



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



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

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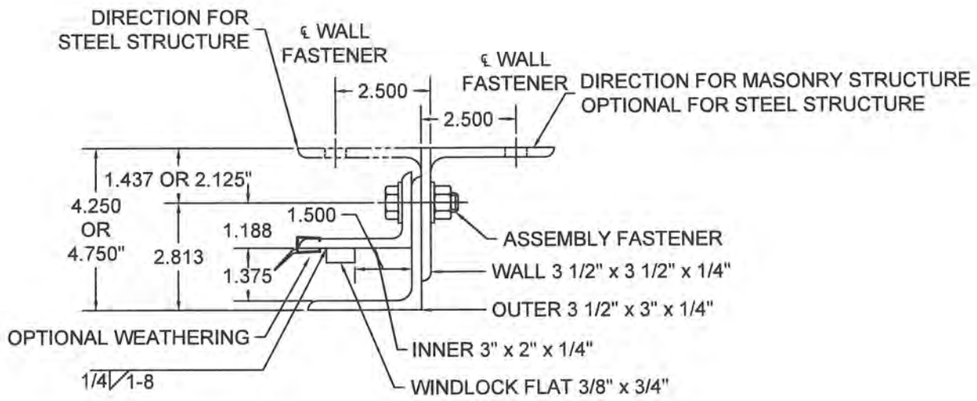
ANGLES = +/- 1/2 DEG

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

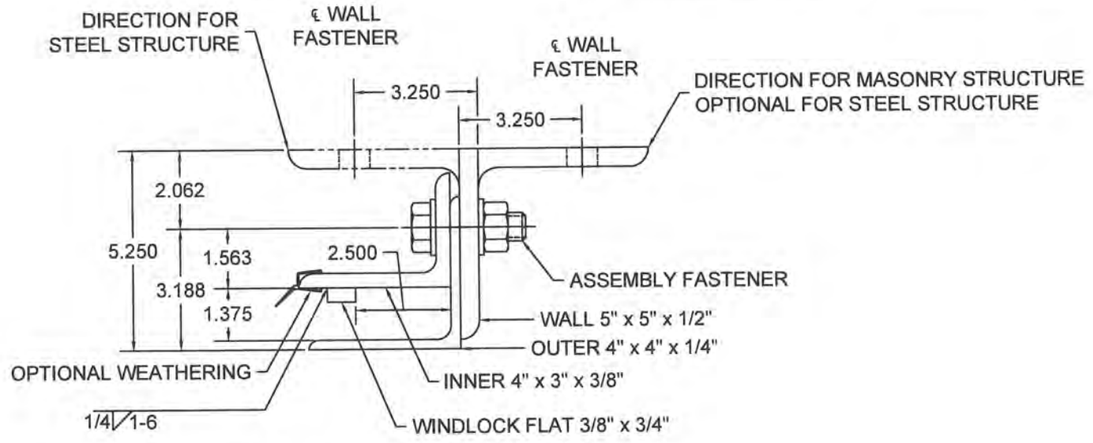
DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	8/53

DWG NO: ES-16-62-CIW

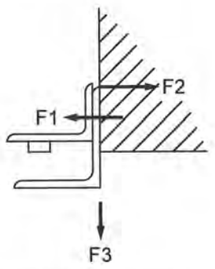
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	09/30/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027



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



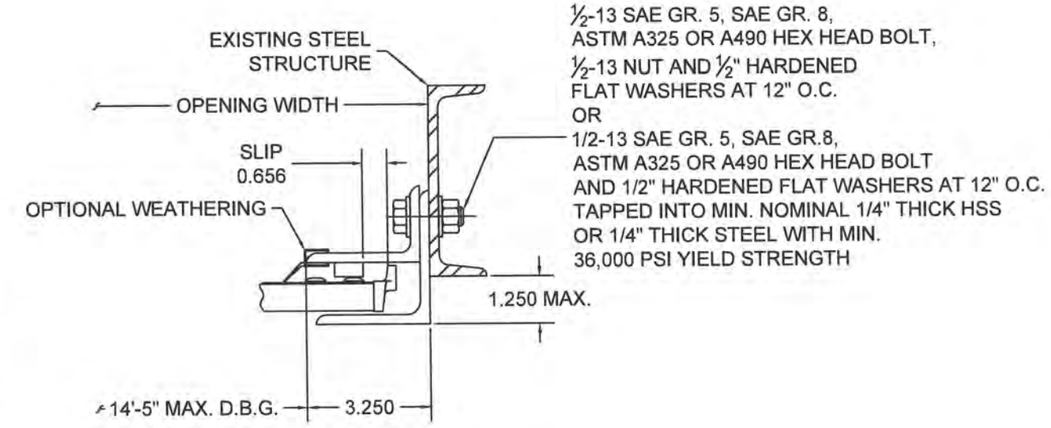
GUIDE ASSEMBLY TYPE DC 2 & DC 3
SCALE: 3" = 1'-0"



BETWEEN JAMBS GUIDE

UNREDUCED WIND FORCES ON BUILDING STRUCTURE (LBS / FOOT OF HEIGHT)					
BETWEEN JAMBS GUIDE (14'-5" MAX. D.B.G.)					
POSITIVE			NEGATIVE		
F1	F2	F3	F1	F2	F3
3745	1832	478	8004	6091	478

BUILDING DESIGNER NOTE:
STRUCTURE MUST BE DESIGNED TO SUPPORT F1, F2, AND F3 FORCES (LBS./FT. OF OPENING HEIGHT) AT EACH JAMB.



GUIDE ASSEMBLY
STEEL STRUCTURE
(BETWEEN JAMBS GUIDE)

SHAWN PATRICK KELLEY LICENSE No 58299 STATE OF FLORIDA PROFESSIONAL ENGINEER
5/1/20

CORNELL Innovative door solutions
24 ELMWOOD AVE 1901 S. LITCHFIELD RD
MOUNTAINTOP, PA GOODYEAR, AZ
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E: ADS@CORNELLIRON.COM

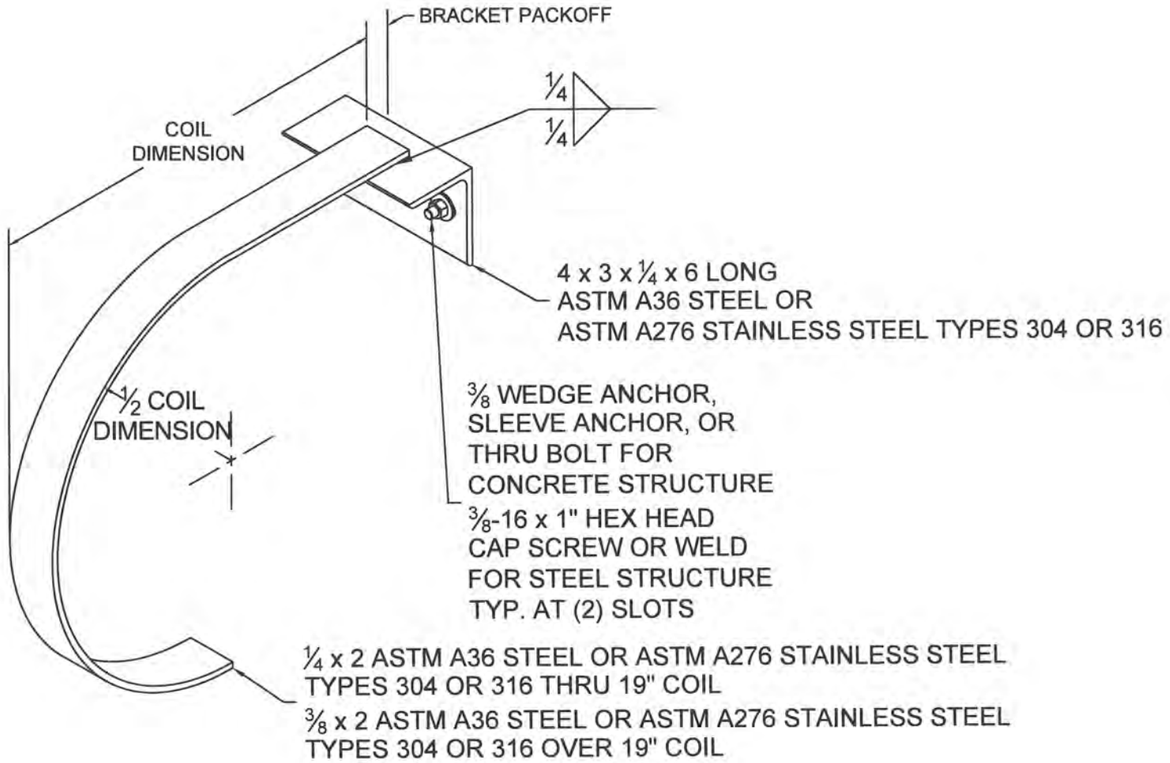
Unless otherwise specified, dimensions are in inches & tolerances are:
0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

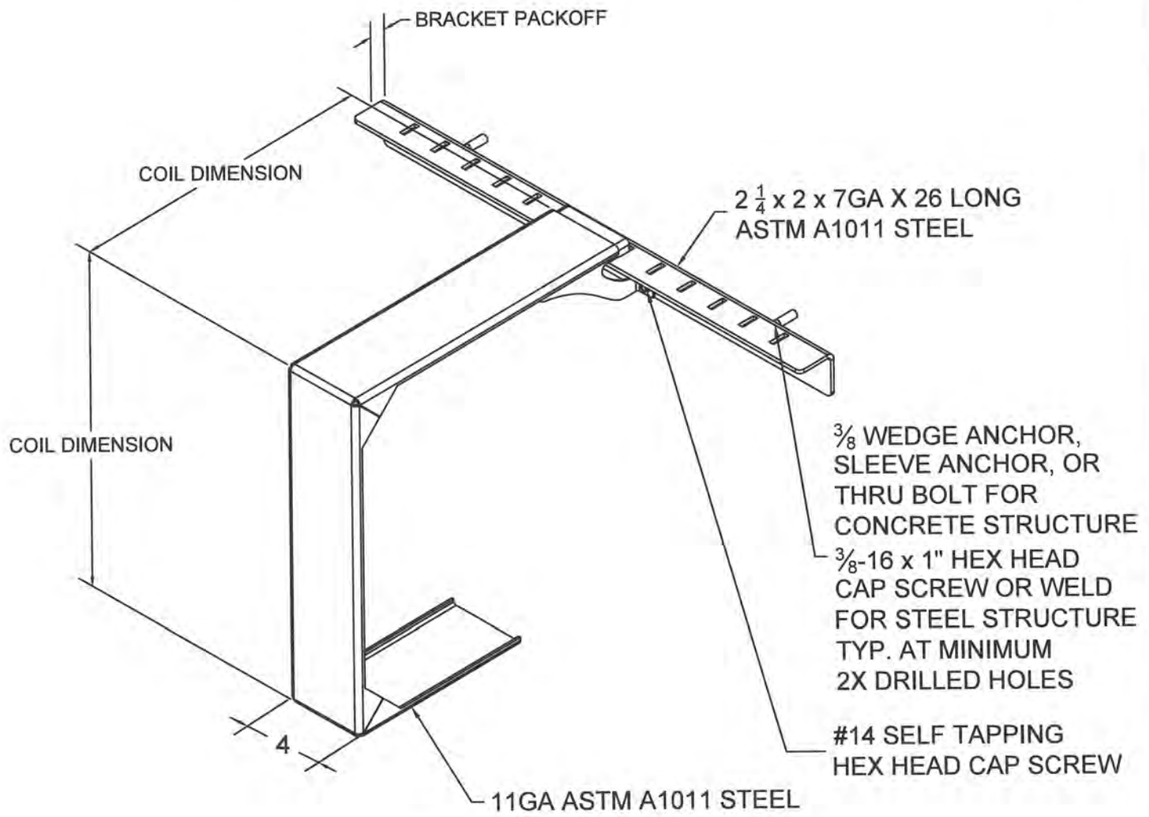
DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	9/53

DWG NO: ES-16-62-CIW

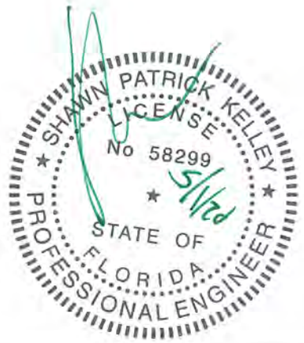
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	09/30/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027



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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	10/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 20 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
7'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	36	2 5/8	3 15/16	4 9/16	36	3	4 1/2	4 9/16	36	2	3	4 9/16
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	28	2 5/8	3 15/16	5 3/4	28	3	4 1/2	5 3/4	22	2	3	5 3/4
12'-5"	1 5/16	0.532	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	15	2 5/8	3 15/16	5 3/16	16	3	4 1/2	5 3/16	10	2	3	5 3/16
12'-5"	1 5/16	0.532	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	36	4 1/2	6 3/4	5 3/4	30	4 1/8	6 3/16	5 3/4	16	2 1/2	3 3/4	5 3/4
13'-5"	1 7/16	0.657	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	14	2 5/8	3 15/16	5 3/16	14	3	4 1/2	5 3/16	8	2	3	5 3/16
13'-5"	1 7/16	0.657	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	33	4 1/2	6 3/4	5 3/4	26	4 1/8	6 3/16	5 3/4	14	2 1/2	3 3/4	5 3/4
14'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	12	2 3/8	4	5 3/16	11	2 5/8	3 15/16	5 3/16	12	3	4 1/2	5 3/16	7	2	3	5 3/16
14'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	22	2 1/4	4	5 3/4	28	4 1/2	6 3/4	5 3/4	22	4 1/8	6 3/16	5 3/4	12	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	N/A				10	2 5/8	3 15/16	5 3/16	10	3	4 1/2	5 3/16	6	2	3	5 3/16
15'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	23	4 1/2	6 3/4	5 3/4	19	4 1/8	6 3/16	5 3/4	10	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.719	CP1151	334	12	3/8	16	N/A				9	2 5/8	3 15/16	5 7/16	9	3	4 1/2	5 7/16	5	2	3	5 7/16
16'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	20	4 1/2	6 3/4	5 3/4	16	4 1/8	6 3/16	5 3/4	9	2 1/2	3 3/4	5 3/4
17'-5"	1 1/2	0.719	CP1151	334	12	3/8	14	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	5	2	3	5 7/16
17'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	17	4 1/2	6 3/4	5 3/4	14	4 1/8	6 3/16	5 3/4	8	2 1/2	3 3/4	5 3/4
18'-5"	1 1/2	0.719	CP1151	334	11	3/8	13	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	4	2	3	5 7/16
18'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	16	4 1/2	6 3/4	5 3/4	13	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
19'-5"	1 1/2	0.656	CP1152	334	10	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
19'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	28	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	11	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
20'-5"	1 1/2	0.656	CP1152	334	10	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	N/A				4	2 1/2	3 3/4	5 7/16
20'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	36	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
21'-5"	1 1/2	0.656	CP1152	334	9	3/8	9	N/A				5	2 5/8	3 15/16	5 7/16	N/A				6	3 1/2	5 1/4	5 7/16
21'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	28	3 5/8	8	5 3/4	11	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	7	3 1/2	5 1/4	5 3/4
22'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	17	4 1/2	6 3/4	6 1/4	15	5 1/8	7 11/16	6 1/4	11	4	6	6 1/4
23'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
24'-5"	2	1.156	CP1152	444	10	5/8	18	22	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
25'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	6	7 5/16	16	4 1/2	6 3/4	7 5/16	15	7 1/2	11 1/4	7 5/16	11	4	6	7 5/16
26'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
27'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
28'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
29'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
30'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
31'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
32'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
33'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
34'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
35'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
36'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
37'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
38'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
39'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
40'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	11/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/15/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 20 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
7'-5"	11	3/8	1 5/8	4 9/16	19	3/8	2 5/8	4 9/16	36	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	75	0	75
7'-5"	16	3/8	2 1/2	5 3/4	11	3/8	2 5/8	5 3/4	28	3/8	5 3/4	36	3/8	2 5/16	4	5 3/4	36	3/8	1 7/8	3 1/4	5 3/4	36	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	75	0	75
12'-5"	9	3/8	2 1/2	5 3/16	8	1/2	3 1/2	5 3/16	15	3/8	5 3/16	36	1/2	3 5/8	6	5 3/16	36	3/8	2 7/8	4 1/2	5 3/16	28 1/2	1/2	2 1/2	4	5 3/16	36	7/16 x 5/8	36	26	3/16	341	125	331	125
12'-5"	9	1/2	2 1/4	5 3/4	9	1/2	3 1/2	5 3/4	36	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	36	1/4	343	125	331	125
13'-5"	8	3/8	2 1/2	5 3/16	12	3/4	5 1/4	5 3/16	14	3/8	5 3/16	36	1/2	3 5/8	6	5 3/16	36	3/8	2 7/8	4 1/2	5 3/16	22 3/4	1/2	3 3/4	6	5 3/16	36	7/16 x 5/8	36	23	3/16	385	135	377	135
13'-5"	8	1/2	2 1/4	5 3/4	8	1/2	3 1/2	5 3/4	33	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	35	1/4	386	135	377	135
14'-5"	8	1/2	3 1/2	5 3/16	10	3/4	5 1/4	5 3/16	11	3/8	5 3/16	19	1/2	3 5/8	6	5 3/16	36	1/2	3 7/8	6	5 3/16	28 1/2	1/2	3 3/4	8	5 3/16	30	7/16 x 5/8	30	20	3/16	454	145	447	145
14'-5"	10	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	28	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	28 1/2	1/2	3 3/4	6	5 3/4	36	9/16 x 3/4	36	30	1/4	455	145	447	145
15'-5"	11	3/4	4 3/8	5 3/16	8	3/4	5 1/4	5 3/16	10	3/8	5 3/16	22 3/4	1/2	3 5/8	8	5 3/16	36	3/4	4 1/8	6 3/4	5 3/16	36	3/4	4 3/8	7	5 3/16	25	7/16 x 5/8	25	16	3/16	548	155	541	155
15'-5"	8	1/2	3 1/2	5 3/4	10	3/4	5 1/4	5 3/4	23	1/2	5 3/4	19	1/2	3 5/8	6	5 3/4	36	1/2	3 7/8	6	5 3/4	28 1/2	1/2	3 3/4	8	5 3/4	36	9/16 x 3/4	36	25	1/4	549	155	541	155
16'-5"	10	3/4	4 3/8	5 7/16	8	3/4	5 1/4	5 7/16	9	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	28 1/2	3/4	4 1/8	6 3/4	5 7/16	28 1/2	3/4	4 3/8	7	5 7/16	21	7/16 x 5/8	21	14	3/16	640	165	633	165
16'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	20	1/2	5 3/4	28 1/2	1/2	3 5/8	8	5 3/4	19	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	21	1/4	641	165	633	165
17'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	28 1/2	3/4	4 3/8	8	5 7/16	19	7/16 x 5/8	19	12	3/16	730	175	724	176
17'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	17	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	22 3/4	3/4	4 1/8	6 3/4	5 3/4	22 3/4	3/4	4 3/8	7	5 3/4	34	9/16 x 3/4	34	19	1/4	731	175	724	176
18'-5"	8	3/4	4 3/8	5 7/16	N/A				7	3/8	5 7/16	28 1/2	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	N/A	3/4	4 3/8	8	5 7/16	17	7/16 x 5/8	17	11	3/16	820	185	813	186
18'-5"	9	3/4	4 3/8	5 3/4	N/A				16	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	28 1/2	3/4	4 3/8	8	5 3/4	30	9/16 x 3/4	30	17	1/4	821	186	813	186
19'-5"	N/A				N/A				6	3/8	5 7/16	N/A					N/A					N/A					14	7/16 x 5/8	14	9	3/16	958	196	952	196
19'-5"	N/A				N/A				13	1/2	5 3/4	22 3/4	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	N/A					26	9/16 x 3/4	26	14	1/4	959	196	952	196
20'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	8	3/16	1052	206	1045	207
20'-5"	N/A				N/A				12	1/2	5 3/4	N/A					N/A					N/A					23	9/16 x 3/4	23	13	1/4	1053	206	1045	207
21'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					12	7/16 x 5/8	12	7	3/16	1146	216	1140	217
21'-5"	N/A				N/A				11	1/2	5 3/4	N/A					N/A					N/A					22	9/16 x 3/4	22	12	1/4	1147	217	1140	217
22'-5"	N/A				N/A				17	5/8	6 1/4	22 3/4	3/4	5 9/16	8	6 1/4	19	5/8	5 1/8	7 7/8	6 1/4	28 1/2	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	24	5/16	912	225	907	225
23'-5"	N/A				N/A				16	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	986	235	981	235
24'-5"	N/A				N/A				15	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1060	245	1055	246
25'-5"	N/A				N/A				16	5/8	7 5/16	22 3/4	3/4	5 9/16	8	7 5/16	36	3/4	5 3/4	8 3/4	7 5/16	N/A					36	11/16 x 7/8	36	24	5/16	1136	255	1130	256
26'-5"	N/A				N/A				15	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	22	5/16	1212	265	1206	266
27'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1288	275	1283	276
28'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1366	286	1360	286
29'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					34	11/16 x 7/8	34	18	5/16	1445	296	1439	297
30'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					32	11/16 x 7/8	32	17	5/16	1524	306	1519	307
31'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					30	11/16 x 7/8	30	17	5/16	1605	317	1599	317
32'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					29	11/16 x 7/8	29	16	5/16	1686	327	1680	328
33'-5"	N/A				N/A				10	5/8	6 13/16	N/A					N/A					N/A					27	11/16 x 7/8	27	15	5/16	1769	337	1763	338
34'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	14	5/16	1852	348	1846	348
35'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1937	358	1931	359
36'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	12	5/16	2022	368	2016	369
37'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2109	379	2102	380
38'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2196	389	2190	390
39'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2285	400	2278	401
40'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2374	410	2368	411

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/11/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	12/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 30 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
6'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	36	2 5/8	3 15/16	4 9/16	36	3	4 1/2	4 9/16	30	2	3	4 9/16
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	21	2 5/8	3 15/16	5 3/4	22	3	4 1/2	5 3/4	17	2	3	5 3/4
12'-5"	1 5/16	0.532	CP1151	334	12	3/8	16	N/A				9	2 5/8	3 15/16	5 7/16	9	3	4 1/2	5 7/16	5	2	3	5 7/16
12'-5"	1 5/16	0.532	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	20	4 1/2	6 3/4	5 3/4	16	4 1/8	6 3/16	5 3/4	9	2 1/2	3 3/4	5 3/4
13'-5"	1 7/16	0.657	CP1151	334	12	3/8	14	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	5	2	3	5 7/16
13'-5"	1 7/16	0.657	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	18	4 1/2	6 3/4	5 3/4	15	4 1/8	6 3/16	5 3/4	8	2 1/2	3 3/4	5 3/4
14'-5"	1 1/2	0.719	CP1151	334	11	3/8	13	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	4	2	3	5 7/16
14'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	16	4 1/2	6 3/4	5 3/4	13	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.656	CP1152	334	10	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
15'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	28	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	11	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.656	CP1152	334	9	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	N/A				6	3 1/2	5 1/4	5 7/16
16'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	28	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
17'-5"	2	1.219	CP1151	444	11	5/8	18	36	4 3/8	6	6 1/4	18	4 1/2	6 3/4	6 1/4	15	5 1/8	7 11/16	6 1/4	7	3	4 1/2	6 1/4
18'-5"	2	1.156	CP1152	444	10	5/8	18	28	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
19'-5"	2	1.156	CP1152	444	9	5/8	18	36	4 3/8	8	6 1/4	14	4 1/2	6 3/4	6 1/4	12	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
20'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
21'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
22'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
23'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	N/A				8	4	6	6 13/16
24'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				10	5	7 1/2	6 13/16
25'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
26'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
27'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
28'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
29'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
30'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
32'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
33'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
34'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A			
35'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
36'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
37'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
38'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
39'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	13/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 30 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength														Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
6'-5"	8	3/8	1 5/8	4 9/16	15	3/8	2 5/8	4 9/16	36	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	98	0	97
6'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	21	3/8	5 3/4	19	3/8	2 5/16	4	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	98	0	97
12'-5"	10	3/4	4 3/8	5 7/16	8	3/4	5 1/4	5 7/16	9	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	22 3/4	3/4	4 1/8	6 3/4	5 7/16	28 1/2	3/4	4 3/8	7	5 7/16	21	7/16 x 5/8	21	14	3/16	648	188	635	188
12'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	20	1/2	5 3/4	28 1/2	1/2	3 5/8	8	5 3/4	36	3/4	4 1/8	6 3/4	5 3/4	36	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	21	1/4	650	188	635	188
13'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	16 1/4	3/4	4 3/8	7	5 7/16	20	7/16 x 5/8	20	13	3/16	693	202	683	203
13'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	18	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	28 1/2	3/4	4 1/8	6 3/4	5 3/4	28 1/2	3/4	4 3/8	7	5 3/4	35	9/16 x 3/4	35	19	1/4	695	203	683	203
14'-5"	8	3/4	4 3/8	5 7/16	N/A				7	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	19	3/4	4 3/8	8	5 7/16	17	7/16 x 5/8	17	11	3/16	781	217	772	218
14'-5"	9	3/4	4 3/8	5 3/4	N/A				16	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	36	3/4	4 3/8	8	5 3/4	31	9/16 x 3/4	31	17	1/4	783	218	772	218
15'-5"	N/A				N/A				6	3/8	5 7/16	N/A					N/A					N/A					14	7/16 x 5/8	14	9	3/16	962	233	953	234
15'-5"	N/A				N/A				13	1/2	5 3/4	22 3/4	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	N/A					26	9/16 x 3/4	26	14	1/4	963	233	953	234
16'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					12	7/16 x 5/8	12	8	3/16	1094	248	1085	249
16'-5"	N/A				N/A				12	1/2	5 3/4	N/A					N/A					N/A					22	9/16 x 3/4	22	12	1/4	1096	249	1085	249
17'-5"	8	3/4	4 3/8	6 1/4	N/A				18	5/8	6 1/4	28 1/2	3/4	5 9/16	8	6 1/4	22 3/4	5/8	5 1/8	7 7/8	6 1/4	28 1/2	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	26	5/16	859	261	851	262
18'-5"	N/A				N/A				16	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	990	276	983	277
19'-5"	N/A				N/A				14	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1094	292	1086	293
20'-5"	N/A				N/A				15	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	22	5/16	1198	307	1190	308
21'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1303	322	1296	323
22'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					35	11/16 x 7/8	35	19	5/16	1409	337	1402	338
23'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					32	11/16 x 7/8	32	18	5/16	1517	353	1509	354
24'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					30	11/16 x 7/8	30	16	5/16	1625	368	1617	369
25'-5"	N/A				N/A				10	5/8	6 13/16	N/A					N/A					N/A					28	11/16 x 7/8	28	15	5/16	1735	383	1727	384
26'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	14	5/16	1847	399	1839	400
27'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	13	5/16	1960	414	1952	415
28'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2075	430	2066	431
29'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2191	445	2182	446
30'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2308	461	2300	462
31'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2428	477	2419	478
32'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	10	5/16	2549	492	2540	493
33'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					17	11/16 x 7/8	17	9	5/16	2671	508	2662	509
34'-5"	N/A				N/A				10	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	20	3/8	2323	520	2315	520
35'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	19	3/8	2428	535	2421	536
36'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					35	13/16 x 1	35	19	3/8	2535	551	2527	551
37'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					33	13/16 x 1	33	18	3/8	2643	566	2635	567
38'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					32	13/16 x 1	32	17	3/8	2752	582	2744	583
39'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					31	13/16 x 1	31	16	3/8	2862	598	2854	598
40'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					29	13/16 x 1	29	16	3/8	2974	614	2966	614

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LICENSE
No 58299
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0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	14/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	33	2 5/8	3 15/16	4 9/16	34	3	4 1/2	4 9/16	36	2 1/2	3 3/4	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	19	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	15	2	3	5 3/4
12'-5"	1 3/8	0.531	CP1152	334	10	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
12'-5"	1 3/8	0.531	CP1152	344	10	1/2	18	28	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	11	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
13'-5"	1 1/2	0.656	CP1152	334	10	3/8	10	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
13'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	19	3 5/8	6	5 3/4	12	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
14'-5"	1 5/8	0.781	CP1152	444	10	5/8	18	22	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
15'-5"	1 7/8	1.031	CP1152	444	10	5/8	18	22	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
16'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	15	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
17'-5"	2	1.156	CP1152	445	9	5/8	18	22	4 3/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
18'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
19'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
20'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
21'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
22'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
23'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
24'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
25'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
27'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
31'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			

SHAWN PATRICK KELLEY
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FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	15/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	09/30/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	19	3/8	2 1/2	4 9/16	13	3/8	2 5/8	4 9/16	33	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	110	0	109
5'-5"	10	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	19	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	110	0	109
12'-5"	N/A				N/A				6	3/8	5 7/16	14	7/16 x 5/8	14	9	3/16	955	251	940	251
12'-5"	N/A				N/A				13	1/2	5 3/4	26	9/16 x 3/4	26	14	1/4	957	251	940	251
13'-5"	N/A				N/A				6	3/8	5 7/16	13	7/16 x 5/8	13	9	3/16	1002	270	990	271
13'-5"	N/A				N/A				12	1/2	5 3/4	24	9/16 x 3/4	24	13	1/4	1004	271	990	271
14'-5"	N/A				N/A				15	5/8	6 1/4	36	11/16 x 7/8	36	22	5/16	1062	290	1048	291
15'-5"	N/A				N/A				15	5/8	6 1/4	36	11/16 x 7/8	36	22	5/16	1033	309	1022	310
16'-5"	N/A				N/A				16	5/8	6 13/16	36	11/16 x 7/8	36	24	5/16	1096	328	1086	329
17'-5"	N/A				N/A				14	5/8	6 13/16	36	11/16 x 7/8	36	22	5/16	1228	349	1218	350
18'-5"	N/A				N/A				13	5/8	6 13/16	36	11/16 x 7/8	36	20	5/16	1361	369	1351	370
19'-5"	N/A				N/A				12	5/8	6 13/16	33	11/16 x 7/8	33	18	5/16	1495	389	1485	390
20'-5"	N/A				N/A				11	5/8	6 13/16	30	11/16 x 7/8	30	16	5/16	1631	409	1621	411
21'-5"	N/A				N/A				10	5/8	6 7/8	26	11/16 x 7/8	26	14	5/16	1768	430	1758	431
22'-5"	N/A				N/A				9	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1907	450	1896	452
23'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2047	471	2037	472
24'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2190	492	2180	493
25'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2335	512	2325	514
26'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2482	533	2471	534
27'-5"	N/A				N/A				7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2631	554	2621	555
28'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2309	571	2299	571
29'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2438	591	2428	592
30'-5"	N/A				N/A				9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2568	612	2558	613
31'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2701	633	2691	633
32'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2835	653	2825	654

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

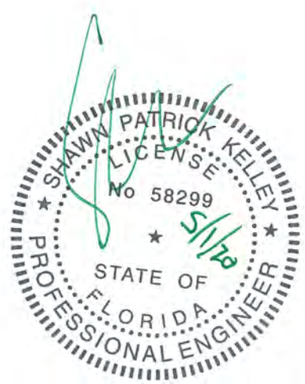
DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	16/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	32	2 5/8	3 15/16	4 9/16	33	3	4 1/2	4 9/16	35	2 1/2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	18	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	14	2	6	5 3/4
12'-5"	1 3/8	0.531	CP1152	445	9	5/8	18	22	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
13'-5"	1 1/2	0.656	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
14'-5"	1 5/8	0.781	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
15'-5"	1 7/8	1.031	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
16'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
17'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	4	7 1/2	6 13/16
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
19'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
20'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
21'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
22'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
23'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			



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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	17/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	18	3/8	2 1/2	4 9/16	13	3/8	2 5/8	4 9/16	32	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	112	0	111
4'-5"	10	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	18	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	113	0	111
12'-5"	N/A				N/A				15	5/8	6 13/16	36	11/16 x 7/8	36	21	5/16	1272	313	1249	314
13'-5"	N/A				N/A				14	5/8	6 13/16	36	11/16 x 7/8	36	20	5/16	1320	338	1301	339
14'-5"	N/A				N/A				13	5/8	6 13/16	35	11/16 x 7/8	35	19	5/16	1378	362	1361	364
15'-5"	N/A				N/A				13	5/8	6 13/16	36	11/16 x 7/8	36	20	5/16	1335	386	1322	387
16'-5"	N/A				N/A				12	5/8	6 13/16	35	11/16 x 7/8	35	19	5/16	1408	411	1396	412
17'-5"	N/A				N/A				11	5/8	6 13/16	31	11/16 x 7/8	31	17	5/16	1569	436	1558	438
18'-5"	N/A				N/A				10	5/8	6 7/8	27	11/16 x 7/8	27	15	5/16	1732	461	1720	463
19'-5"	N/A				N/A				9	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1897	487	1884	489
20'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2063	512	2051	514
21'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2232	538	2220	540
22'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2404	564	2391	566
23'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2578	590	2565	592
24'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	21	3/8	2281	612	2270	613
25'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2432	637	2421	638
26'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2585	663	2574	664
27'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2741	689	2729	690
28'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2898	715	2886	716

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	18/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 60 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	27	2 5/8	3 15/16	4 9/16	28	3	4 1/2	4 9/16	29	2 1/2	3 3/4	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	15	2 5/8	3 15/16	5 3/4	16	3	4 1/2	5 3/4	12	2 1/2	3 3/4	5 3/4
12'-5"	1 3/8	0.531	CP1152 & CP1153	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
13'-5"	1 1/2	0.656	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	2 1/2	3 3/4	6 13/16
14'-5"	1 5/8	0.781	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	2 1/2	3 3/4	6 13/16
15'-5"	1 7/8	1.031	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	2 1/2	3 3/4	6 13/16
16'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	2 1/2	3 3/4	6 7/8
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	2 1/2	3 3/4	6 7/8
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	2 1/2	3 3/4	6 7/8
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	7	3/4	18	N/A				10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			

CP0020 - 0.0220 Minimum Thickness Galvanized or Stainless Steel - 60 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	15	3/8	2 1/2	4 9/16	10	3/8	2 5/8	4 9/16	27	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	135	0	133
4'-5"	8	3/8	2 1/2	5 3/4	14	3/4	2 5/8	5 3/4	15	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	135	0	133
12'-5"	N/A				N/A				12	5/8	6 13/16	31	11/16 x 7/8	31	17	5/16	1581	376	1555	378
13'-5"	N/A				N/A				11	5/8	6 13/16	30	11/16 x 7/8	30	16	5/16	1631	405	1609	407
14'-5"	N/A				N/A				11	5/8	6 13/16	29	11/16 x 7/8	29	16	5/16	1694	435	1674	437
15'-5"	N/A				N/A				11	5/8	6 13/16	30	11/16 x 7/8	30	16	5/16	1637	463	1622	465
16'-5"	N/A				N/A				10	5/8	6 7/8	27	11/16 x 7/8	27	15	5/16	1721	493	1707	495
17'-5"	N/A				N/A				9	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1911	524	1897	525
18'-5"	N/A				N/A				8	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2103	554	2089	556
19'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2298	585	2283	587
20'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2496	616	2481	618
21'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	21	3/8	2228	643	2215	644
22'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2400	674	2386	674
23'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2574	704	2561	705
24'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2751	735	2738	736
25'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2931	766	2917	767

SHAWN PATRICK KELLEY
LICENSE
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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	19/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/15/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 20 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
8'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	36	2 5/8	3 15/16	4 9/16	36	3	4 1/2	4 9/16	34	2	3	4 9/16
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	24	2 5/8	3 15/16	5 3/4	25	3	4 1/2	5 3/4	19	2	3	5 3/4
14'-5"	1 3/8	0.594	CP1151	333	12	3/8	18	22	2 3/8	5	5 3/16	11	2 5/8	3 15/16	5 3/16	12	3	4 1/2	5 3/16	7	2	3	5 3/16
14'-5"	1 3/8	0.594	CP1151	344	12	1/2	18	22	2 1/4	4	5 3/4	27	4 1/2	6 3/4	5 3/4	22	4 1/8	6 3/16	5 3/4	12	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	12	2 3/8	5	5 3/16	10	2 5/8	3 15/16	5 3/16	11	3	4 1/2	5 3/16	6	2	3	5 3/16
15'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	11	2 1/4	4	5 3/4	25	4 1/2	6 3/4	5 3/4	20	4 1/8	6 3/16	5 3/4	11	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.719	CP1151	333	12	3/8	17	N/A				9	2 5/8	3 15/16	5 3/16	9	3	4 1/2	5 3/16	5	2	3	5 3/16
16'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	21	4 1/2	6 3/4	5 3/4	17	4 1/8	6 3/16	5 3/4	9	2 1/2	3 3/4	5 3/4
17'-5"	1 1/2	0.719	CP1151	334	12	3/8	15	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	5	2	3	5 7/16
17'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	18	4 1/2	6 3/4	5 3/4	15	4 1/8	6 3/16	5 3/4	8	2 1/2	3 3/4	5 3/4
18'-5"	1 1/2	0.719	CP1151	334	11	3/8	13	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	4	2	3	5 7/16
18'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	16	4 1/2	6 3/4	5 3/4	13	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
19'-5"	1 1/2	0.719	CP1151	334	11	3/8	12	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	5	2 1/2	3 3/4	5 7/16
19'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	15	4 1/2	6 3/4	5 3/4	12	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
20'-5"	1 1/2	0.656	CP1152	334	10	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
20'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	19	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
21'-5"	1 1/2	0.656	CP1152	334	9	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	N/A				6	3 1/2	5 1/4	5 7/16
21'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	28	3 5/8	8	5 3/4	11	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	7	3 1/2	5 1/4	5 3/4
22'-5"	2	1.219	CP1151	444	11	5/8	18	36	4 3/8	6	6 1/4	18	4 1/2	6 3/4	6 1/4	16	5 1/8	7 11/16	6 1/4	7	3	4 1/2	6 1/4
23'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
24'-5"	2	1.156	CP1152	444	10	5/8	18	28	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
25'-5"	2	1.156	CP1152	444	9	5/8	18	36	4 3/8	8	6 1/4	14	4 1/2	6 3/4	6 1/4	12	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
26'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
27'-5"	2	1.156	CP1152	445	9	5/8	18	22	4 3/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
28'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
29'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
30'-5"	2	1.156	CP1152	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
31'-5"	2	1.156	CP1152	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
32'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
33'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
34'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
35'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
36'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
37'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
38'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
39'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
40'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	20/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 20 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
8'-5"	10	3/8	1 5/8	4 9/16	17	3/8	2 5/8	4 9/16	36	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	85	0	85
8'-5"	14	3/8	2 1/2	5 3/4	9	3/8	2 5/8	5 3/4	24	3/8	5 3/4	36	3/8	2 5/16	4	5 3/4	28 1/2	3/8	1 7/8	3 1/4	5 3/4	36	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	85	0	85
14'-5"	8	1/2	3 1/2	5 3/16	10	3/4	5 1/4	5 3/16	11	3/8	5 3/16	16 1/4	1/2	3 5/8	6	5 3/16	36	1/2	3 7/8	6	5 3/16	28 1/2	1/2	3 3/4	8	5 3/16	29	7/16 x 5/8	29	19	3/16	465	145	456	145
14'-5"	10	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	27	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	22 3/4	1/2	3 3/4	6	5 3/4	36	9/16 x 3/4	36	29	1/4	466	145	456	145
15'-5"	8	3/4	3 1/4	5 3/16	9	3/4	5 1/4	5 3/16	10	3/8	5 3/16	36	1/2	3 5/8	8	5 3/16	28 1/2	1/2	3 7/8	6	5 3/16	36	3/4	4 3/8	7	5 3/16	27	7/16 x 5/8	27	18	3/16	499	155	491	155
15'-5"	9	1/2	3 1/2	5 3/4	11	3/4	5 1/4	5 3/4	25	1/2	5 3/4	28 1/2	1/2	3 5/8	6	5 3/4	22 3/4	1/2	2 3/4	4 1/2	5 3/4	36	1/2	3 3/4	8	5 3/4	36	9/16 x 3/4	36	27	1/4	500	155	491	155
16'-5"	10	3/4	4 3/8	5 3/16	8	3/4	5 1/4	5 3/16	9	3/8	5 3/16	36	3/4	5 9/16	8	5 3/16	22 3/4	3/4	4 1/8	6 3/4	5 3/16	22 3/4	3/4	4 3/8	7	5 3/16	23	7/16 x 5/8	23	15	3/16	596	165	589	165
16'-5"	8	1/2	3 1/2	5 3/4	9	3/4	5 1/4	5 3/4	21	1/2	5 3/4	36	1/2	3 5/8	8	5 3/4	28 1/2	1/2	3 7/8	6	5 3/4	19	1/2	3 3/4	8	5 3/4	36	9/16 x 3/4	36	23	1/4	597	165	589	165
17'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	16 1/4	3/4	4 1/8	6 3/4	5 7/16	16 1/4	3/4	4 3/8	7	5 7/16	20	7/16 x 5/8	20	13	3/16	691	175	685	175
17'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	18	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	28 1/2	3/4	4 1/8	6 3/4	5 3/4	28 1/2	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	20	1/4	692	175	685	175
18'-5"	8	3/4	4 3/8	5 7/16	N/A				7	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	19	3/4	4 3/8	8	5 7/16	17	7/16 x 5/8	17	11	3/16	785	185	779	186
18'-5"	9	3/4	4 3/8	5 3/4	N/A				16	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	36	3/4	4 3/8	8	5 3/4	31	9/16 x 3/4	31	17	1/4	786	185	779	186
19'-5"	N/A				N/A				7	3/8	5 7/16	N/A					N/A					N/A					15	7/16 x 5/8	15	10	3/16	878	195	872	196
19'-5"	8	3/4	4 3/8	5 3/4	N/A				15	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	19	3/4	4 3/8	8	5 3/4	28	9/16 x 3/4	28	15	1/4	879	196	872	196
20'-5"	N/A				N/A				6	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	8	3/16	1024	206	1017	206
20'-5"	N/A				N/A				13	1/2	5 3/4	N/A					N/A					N/A					24	9/16 x 3/4	24	13	1/4	1025	206	1017	206
21'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					12	7/16 x 5/8	12	8	3/16	1120	216	1114	217
21'-5"	N/A				N/A				11	1/2	5 3/4	N/A					N/A					N/A					22	9/16 x 3/4	22	12	1/4	1121	216	1114	217
22'-5"	8	3/4	4 3/8	6 1/4	N/A				18	5/8	6 1/4	19	5/8	4 7/16	8	6 1/4	28 1/2	5/8	5 1/8	7 7/8	6 1/4	36	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	26	5/16	862	224	856	225
23'-5"	N/A				N/A				16	5/8	6 1/4	N/A					36	3/4	5 3/4	8 3/4	6 1/4	19	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	23	5/16	965	235	959	235
24'-5"	N/A				N/A				15	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1041	245	1035	245
25'-5"	N/A				N/A				14	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1117	255	1112	256
26'-5"	N/A				N/A				15	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	22	5/16	1195	265	1189	266
27'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1273	275	1267	276
28'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1352	286	1346	286
29'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					34	11/16 x 7/8	34	19	5/16	1431	296	1425	296
30'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					32	11/16 x 7/8	32	18	5/16	1512	306	1506	307
31'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					30	11/16 x 7/8	30	17	5/16	1593	316	1587	317
32'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					29	11/16 x 7/8	29	16	5/16	1675	327	1669	327
33'-5"	N/A				N/A				10	5/8	6 13/16	N/A					N/A					N/A					28	11/16 x 7/8	28	15	5/16	1758	337	1752	338
34'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	14	5/16	1842	347	1836	348
35'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1927	358	1921	358
36'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	12	5/16	2013	368	2007	369
37'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2100	378	2094	379
38'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2188	389	2182	390
39'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2277	399	2271	400
40'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2367	410	2361	411

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	21/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 30 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
6'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	36	2 5/8	3 15/16	4 9/16	36	3	4 1/2	4 9/16	30	2	3	4 9/16
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	21	2 5/8	3 15/16	5 3/4	22	3	4 1/2	5 3/4	17	2	3	5 3/4
14'-5"	1 3/8	0.594	CP1151	334	11	3/8	12	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	4	2	3	5 7/16
14'-5"	1 3/8	0.594	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	15	4 1/2	6 3/4	5 3/4	12	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	334	11	3/8	12	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	5	2 1/2	3 3/4	5 7/16
15'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	15	4 1/2	6 3/4	5 3/4	12	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.656	CP1152	334	10	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	N/A				7	3 1/2	5 1/4	5 7/16
16'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	36	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
17'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	19	3 5/8	8	5 3/4	11	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	7	3 1/2	5 1/4	5 3/4
18'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
19'-5"	2	1.156	CP1152	444	10	5/8	18	19	4 3/8	6	6 1/4	14	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
20'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
21'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
22'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
23'-5"	2	1.156	CP1152	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
24'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
25'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
26'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
27'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
28'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
29'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
30'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
32'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
33'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
34'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				6	4 1/2	6 3/4	6 7/8	N/A				N/A			
35'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
36'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
37'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
38'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
39'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	22/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 30 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
6'-5"	8	3/8	1 5/8	4 9/16	15	3/8	2 5/8	4 9/16	36	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	98	0	97
6'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	21	3/8	5 3/4	19	3/8	2 5/16	4	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	98	0	97
14'-5"	8	3/4	4 3/8	5 7/16	N/A				7	3/8	5 7/16	28 1/2	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	N/A					16	7/16 x 5/8	16	11	3/16	826	218	814	218
14'-5"	9	3/4	4 3/8	5 3/4	N/A				15	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	28 1/2	3/4	4 3/8	8	5 3/4	30	9/16 x 3/4	30	16	1/4	828	218	814	218
15'-5"	N/A				N/A				7	3/8	5 7/16	N/A					N/A					N/A					16	7/16 x 5/8	16	10	3/16	860	232	851	233
15'-5"	8	3/4	4 3/8	5 3/4	N/A				15	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	19	3/4	4 3/8	8	5 3/4	28	9/16 x 3/4	28	16	1/4	862	233	851	233
16'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	8	3/16	1051	248	1041	249
16'-5"	N/A				N/A				12	1/2	5 3/4	N/A					N/A					N/A					23	9/16 x 3/4	23	13	1/4	1052	248	1041	249
17'-5"	N/A				N/A				11	1/2	5 3/4	N/A					N/A					N/A					21	9/16 x 3/4	21	11	1/4	1189	264	1178	264
18'-5"	N/A				N/A				16	5/8	6 1/4	N/A					36	3/4	5 3/4	8 3/4	6 1/4	19	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	23	5/16	956	276	948	277
19'-5"	N/A				N/A				14	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1063	292	1055	292
20'-5"	N/A				N/A				15	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	23	5/16	1170	307	1162	308
21'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1278	322	1270	323
22'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					35	11/16 x 7/8	35	19	5/16	1386	337	1378	338
23'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					33	11/16 x 7/8	33	18	5/16	1495	352	1487	353
24'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					30	11/16 x 7/8	30	17	5/16	1606	368	1598	369
25'-5"	N/A				N/A				10	5/8	6 13/16	N/A					N/A					N/A					28	11/16 x 7/8	28	15	5/16	1717	383	1709	384
26'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	14	5/16	1830	399	1822	400
27'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1944	414	1936	415
28'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2060	429	2052	431
29'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2177	445	2169	446
30'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2296	461	2287	462
31'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2416	476	2407	477
32'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	10	5/16	2538	492	2529	493
33'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					17	11/16 x 7/8	17	9	5/16	2661	508	2652	509
34'-5"	N/A				N/A				6	3/4	6 7/8	N/A					N/A					N/A					36	11/16 x 7/8	36	20	3/8	2313	519	2306	520
35'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	20	3/8	2419	535	2411	535
36'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					35	13/16 x 1	35	19	3/8	2526	550	2518	551
37'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					33	13/16 x 1	33	18	3/8	2635	566	2626	566
38'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					32	13/16 x 1	32	17	3/8	2744	582	2736	582
39'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					31	13/16 x 1	31	17	3/8	2855	597	2847	598
40'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					30	13/16 x 1	30	16	3/8	2967	613	2959	613

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/11/20
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0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	23/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 40 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	33	2 5/8	3 15/16	4 9/16	34	3	4 1/2	4 9/16	26	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	19	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	15	2	3	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 1/2	0.656	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
16'-5"	1 5/8	0.781	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
17'-5"	1 7/8	1.031	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
18'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
19'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
20'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
21'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
22'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
23'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
24'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
25'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
27'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
28'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				6	4 1/2	6 3/4	6 7/8	N/A				N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
31'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
34'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	24/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 40 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	19	3/8	2 1/2	4 9/16	13	3/8	2 5/8	4 9/16	33	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	110	0	109
5'-5"	10	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	19	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	110	0	109
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1117	290	1103	291
15'-5"	N/A				N/A				14	5/8	6 13/16	36	11/16 x 7/8	36	21	5/16	1300	310	1284	312
16'-5"	N/A				N/A				14	5/8	6 13/16	36	11/16 x 7/8	36	20	5/16	1333	330	1318	331
17'-5"	N/A				N/A				14	5/8	6 13/16	36	11/16 x 7/8	36	21	5/16	1273	349	1262	350
18'-5"	N/A				N/A				13	5/8	6 13/16	36	11/16 x 7/8	36	20	5/16	1327	369	1317	370
19'-5"	N/A				N/A				12	5/8	6 13/16	33	11/16 x 7/8	33	18	5/16	1464	389	1454	390
20'-5"	N/A				N/A				11	5/8	6 13/16	30	11/16 x 7/8	30	17	5/16	1603	409	1592	411
21'-5"	N/A				N/A				10	5/8	6 7/8	26	11/16 x 7/8	26	14	5/16	1742	430	1732	431
22'-5"	N/A				N/A				10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1883	450	1873	452
23'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	2026	471	2016	472
24'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2171	491	2160	493
25'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2317	512	2306	513
26'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2465	533	2455	534
27'-5"	N/A				N/A				7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2616	553	2605	555
28'-5"	N/A				N/A				6	3/4	6 7/8	36	11/16 x 7/8	36	21	3/8	2294	570	2285	571
29'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2424	591	2414	592
30'-5"	N/A				N/A				9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2556	612	2546	612
31'-5"	N/A				N/A				8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2689	632	2679	633
32'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2824	653	2814	654
33'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2960	674	2950	674
34'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3099	694	3089	695

SHAWN PATRICK KELLEY
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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	25/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 50 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	26	2 5/8	3 15/16	4 9/16	27	3	4 1/2	4 9/16	21	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	15	2 5/8	3 15/16	5 3/4	15	3	4 1/2	5 3/4	30	3 1/2	0	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 1/2	0.656	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				N/A			
16'-5"	1 5/8	0.781	CP1152 & CP1153	445	7	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				N/A			
17'-5"	1 7/8	1.031	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				N/A			
18'-5"	2	1.156	CP1152 & CP1153	546	8	5/8	18	N/A				11	4 1/2	6 3/4	6 7/8	N/A				N/A			
19'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
22'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
23'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
24'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				6	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 50 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	15	3/8	2 1/2	4 9/16	10	3/8	2 5/8	4 9/16	26	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	137	0	136
5'-5"	8	3/8	2 1/2	5 3/4	14	3/4	5 1/4	5 3/4	15	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	138	0	136
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1461	363	1443	364
15'-5"	N/A				N/A				11	5/8	6 13/16	29	11/16 x 7/8	29	16	5/16	1682	389	1662	390
16'-5"	N/A				N/A				11	5/8	6 13/16	28	11/16 x 7/8	28	15	5/16	1716	413	1698	415
17'-5"	N/A				N/A				11	5/8	6 13/16	30	11/16 x 7/8	30	16	5/16	1635	437	1621	438
18'-5"	N/A				N/A				11	5/8	6 7/8	27	11/16 x 7/8	27	15	5/16	1698	461	1685	463
19'-5"	N/A				N/A				10	5/8	6 7/8	25	11/16 x 7/8	25	13	5/16	1865	487	1853	488
20'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	2035	512	2023	514
21'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2207	538	2194	540
22'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2380	564	2368	565
23'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2557	589	2544	591
24'-5"	N/A				N/A				6	3/4	6 7/8	36	11/16 x 7/8	36	21	3/8	2262	612	2250	612
25'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2414	637	2402	638
26'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2569	663	2557	664
27'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2725	688	2713	689
28'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2884	714	2872	715
29'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	15	3/8	3045	740	3033	741

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/11/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CORNELL
innovative door solutions™

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

P: 800.233.8366
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E: ADS@CORNELLIRON.COM

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

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	26/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 60 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	27	2 5/8	3 15/16	4 9/16	28	3	4 1/2	4 9/16	21	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	15	2 5/8	3 15/16	5 3/4	16	3	4 1/2	5 3/4	31	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 1/2	0.656	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	2 1/2	3 3/4	6 7/8
16'-5"	1 5/8	0.781	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				7	2 1/2	3 3/4	6 7/8
17'-5"	1 7/8	1.031	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	2 1/2	3 3/4	6 7/8
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	N/A				7	2 1/2	3 3/4	6 7/8
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2	1.156	CP1152 & CP1153	648	7	3/4	18	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 60 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	15	3/8	1 5/8	4 9/16	10	3/8	2 5/8	4 9/16	27	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	135	0	133
4'-5"	8	3/8	2 1/2	5 3/4	14	3/4	5 1/4	5 3/4	15	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	135	0	133
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1804	437	1784	437
15'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2064	467	2040	469
16'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2099	496	2078	498
17'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	13	5/16	1997	524	1981	526
18'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2068	554	2054	556
19'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2267	585	2252	587
20'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2468	615	2453	617
21'-5"	N/A				N/A				7	3/4	6 7/8	36	11/16 x 7/8	36	21	3/8	2203	643	2189	644
22'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2377	673	2363	674
23'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2553	704	2539	705
24'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2732	735	2718	736
25'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2913	766	2899	766
26'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3097	796	3083	797

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	27/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 65 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	25	2 5/8	3 15/16	4 9/16	26	3	4 1/2	4 9/16	20	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	14	2 5/8	3 15/16	5 3/4	14	3	4 1/2	5 3/4	28	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 1/2	0.656	CP1152 & CP1153	546	6	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
16'-5"	1 5/8	0.781	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	1 3/4	0.906	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
18'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2 3/8	1.531	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	N/A				N/A			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	N/A				N/A			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	N/A				N/A			
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	N/A				N/A			
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0236 Minimum Thickness Galvanized or Stainless Steel - 65 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	14	3/8	1 5/8	4 9/16	10	3/8	2 5/8	4 9/16	25	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	146	0	144
4'-5"	8	3/8	2 1/2	5 3/4	13	3/4	5 1/4	5 3/4	14	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	147	0	144
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1976	473	1955	474
15'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2255	506	2229	508
16'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2291	538	2268	540
17'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2341	570	2321	572
18'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2254	600	2238	602
19'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2467	634	2452	636
20'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2309	665	2293	665
21'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2396	697	2382	697
22'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2583	730	2569	731
23'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2774	763	2759	764
24'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2967	796	2952	797

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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	28/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 20 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
9'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	36	2 5/8	3 15/16	4 9/16	36	3	4 1/2	4 9/16	30	2	3	4 9/16
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	22	2 5/8	3 15/16	5 3/4	22	3	4 1/2	5 3/4	36	3 1/2	5 1/4	5 3/4
13'-5"	1 5/16	0.532	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	16	2 5/8	3 15/16	5 3/16	16	3	4 1/2	5 3/16	20	3 1/2	5 1/4	5 3/16
13'-5"	1 5/16	0.532	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	36	4 1/2	6 3/4	5 3/4	30	4 1/8	6 3/16	5 3/4	25	3 1/2	5 1/4	5 3/4
14'-5"	1 7/16	0.657	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	14	2 5/8	3 15/16	5 3/16	14	3	4 1/2	5 3/16	18	3 1/2	5 1/4	5 3/16
14'-5"	1 7/16	0.657	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	33	4 1/2	6 3/4	5 3/4	26	4 1/8	6 3/16	5 3/4	22	3 1/2	5 1/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	22	2 3/8	5	5 3/16	11	2 5/8	3 15/16	5 3/16	11	3	4 1/2	5 3/16	7	2	3	5 3/16
15'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	22	2 1/4	4	5 3/4	27	4 1/2	6 3/4	5 3/4	22	4 1/8	6 3/16	5 3/4	12	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	N/A				9	2 5/8	3 15/16	5 3/16	9	3	4 1/2	5 3/16	6	2	3	5 3/16
16'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	23	4 1/2	6 3/4	5 3/4	18	4 1/8	6 3/16	5 3/4	10	2 1/2	3 3/4	5 3/4
17'-5"	1 1/2	0.719	CP1151	334	12	3/8	15	N/A				9	2 5/8	3 15/16	5 7/16	9	3	4 1/2	5 7/16	5	2	3	5 7/16
17'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	19	4 1/2	6 3/4	5 3/4	16	4 1/8	6 3/16	5 3/4	8	2 1/2	3 3/4	5 3/4
18'-5"	1 1/2	0.719	CP1151	334	12	3/8	14	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	5	2	3	5 7/16
18'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	17	4 1/2	6 3/4	5 3/4	14	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
19'-5"	1 1/2	0.719	CP1151	334	11	3/8	12	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	5	2 1/2	3 3/4	5 7/16
19'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	15	4 1/2	6 3/4	5 3/4	12	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
20'-5"	1 1/2	0.656	CP1152	334	10	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
20'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	22	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
21'-5"	1 1/2	0.656	CP1152	334	9	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	N/A				6	3 1/2	5 1/4	5 7/16
21'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	36	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
22'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	22	3 5/8	8	5 3/4	11	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	7	3 1/2	5 1/4	5 3/4
23'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	17	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
24'-5"	2	1.156	CP1152	444	10	5/8	18	28	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
25'-5"	2	1.156	CP1152	444	9	5/8	18	19	4 3/8	6	6 1/4	14	4 1/2	6 3/4	6 1/4	12	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
26'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
27'-5"	2	1.156	CP1152	445	9	5/8	18	22	4 3/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
28'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
29'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
30'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
31'-5"	2	1.156	CP1152	445	8	5/8	18	N/A				12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
32'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
33'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
34'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
35'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
36'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
37'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
38'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
39'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
40'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	29/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 20 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
9'-5"	9	3/8	1 5/8	4 9/16	15	3/8	2 5/8	4 9/16	36	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	95	0	95
9'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	36	3/8	5 3/4	22 3/4	3/8	2 5/16	4	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	95	0	95
13'-5"	9	3/8	2 1/2	5 3/16	8	1/2	3 1/2	5 3/16	27	3/8	5 3/16	36	1/2	3 5/8	6	5 3/16	36	3/8	2 7/8	4 1/2	5 3/16	28 1/2	1/2	2 1/2	4	5 3/16	36	7/16 x 5/8	36	27	3/16	333	135	323	135
13'-5"	9	1/2	2 1/4	5 3/4	9	1/2	3 1/2	5 3/4	36	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	36	1/4	335	135	323	135
14'-5"	8	3/8	2 1/2	5 3/16	12	3/4	5 1/4	5 3/16	23	3/8	5 3/16	36	1/2	3 5/8	6	5 3/16	36	3/8	2 7/8	4 1/2	5 3/16	22 3/4	1/2	3 3/4	6	5 3/16	36	7/16 x 5/8	36	23	3/16	380	145	372	145
14'-5"	8	1/2	2 1/4	5 3/4	8	1/2	3 1/2	5 3/4	35	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	35	1/4	382	145	372	145
15'-5"	8	1/2	3 1/2	5 3/16	10	3/4	5 1/4	5 3/16	19	3/8	5 3/16	16 1/4	1/2	3 5/8	6	5 3/16	36	1/2	3 7/8	6	5 3/16	22 3/4	1/2	3 3/4	8	5 3/16	30	7/16 x 5/8	30	19	3/16	456	155	449	155
15'-5"	10	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	30	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	22 3/4	1/2	3 3/4	6	5 3/4	36	9/16 x 3/4	36	30	1/4	458	155	449	155
16'-5"	10	3/4	4 3/8	5 3/16	8	3/4	5 1/4	5 3/16	16	3/8	5 3/16	19	1/2	3 5/8	8	5 3/16	28 1/2	3/4	4 1/8	6 3/4	5 3/16	28 1/2	3/4	4 3/8	7	5 3/16	24	7/16 x 5/8	24	16	3/16	559	165	551	165
16'-5"	8	1/2	3 1/2	5 3/4	10	3/4	5 1/4	5 3/4	24	1/2	5 3/4	36	1/2	3 5/8	8	5 3/4	36	1/2	3 7/8	6	5 3/4	28 1/2	1/2	3 3/4	8	5 3/4	36	9/16 x 3/4	36	24	1/4	560	165	551	165
17'-5"	10	3/4	4 3/8	5 7/16	8	3/4	5 1/4	5 7/16	13	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	22 3/4	3/4	4 1/8	6 3/4	5 7/16	22 3/4	3/4	4 3/8	7	5 7/16	21	7/16 x 5/8	21	13	3/16	658	175	651	175
17'-5"	8	3/4	3 1/4	5 3/4	8	3/4	5 1/4	5 3/4	21	1/2	5 3/4	22 3/4	1/2	3 5/8	8	5 3/4	36	3/4	4 1/8	6 3/4	5 3/4	36	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	21	1/4	659	175	651	175
18'-5"	9	3/4	4 3/8	5 7/16	N/A				12	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	28 1/2	3/4	4 3/8	8	5 7/16	18	7/16 x 5/8	18	12	3/16	756	185	749	185
18'-5"	9	3/4	4 3/8	5 3/4	N/A				18	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	19	3/4	4 3/8	7	5 3/4	33	9/16 x 3/4	33	18	1/4	757	185	749	185
19'-5"	8	3/4	4 3/8	5 7/16	N/A				10	3/8	5 7/16	22 3/4	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	N/A					16	7/16 x 5/8	16	10	3/16	852	195	845	196
19'-5"	8	3/4	4 3/8	5 3/4	N/A				16	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	22 3/4	3/4	4 3/8	8	5 3/4	29	9/16 x 3/4	29	16	1/4	853	195	845	196
20'-5"	N/A				N/A				9	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	9	3/16	1000	206	993	206
20'-5"	N/A				N/A				14	1/2	5 3/4	N/A					N/A					N/A					25	9/16 x 3/4	25	14	1/4	1001	206	993	206
21'-5"	N/A				N/A				8	3/8	5 7/16	N/A					N/A					N/A					12	7/16 x 5/8	12	8	3/16	1098	216	1092	216
21'-5"	N/A				N/A				12	1/2	5 3/4	N/A					N/A					N/A					22	9/16 x 3/4	22	12	1/4	1099	216	1092	216
22'-5"	N/A				N/A				11	1/2	5 3/4	N/A					N/A					N/A					21	9/16 x 3/4	21	11	1/4	1199	226	1191	227
23'-5"	N/A				N/A				23	5/8	6 1/4	N/A					36	3/4	5 3/4	8 3/4	6 1/4	22 3/4	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	23	5/16	946	235	941	235
24'-5"	N/A				N/A				22	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	1024	245	1018	245
25'-5"	N/A				N/A				20	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1102	255	1096	255
26'-5"	N/A				N/A				23	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	23	5/16	1180	265	1175	266
27'-5"	N/A				N/A				21	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1260	275	1254	276
28'-5"	N/A				N/A				20	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1339	285	1333	286
29'-5"	N/A				N/A				19	5/8	6 13/16	N/A					N/A					N/A					34	11/16 x 7/8	34	19	5/16	1420	295	1414	296
30'-5"	N/A				N/A				18	5/8	6 13/16	N/A					N/A					N/A					32	11/16 x 7/8	32	18	5/16	1501	306	1495	306
31'-5"	N/A				N/A				17	5/8	6 13/16	N/A					N/A					N/A					31	11/16 x 7/8	31	17	5/16	1583	316	1577	317
32'-5"	N/A				N/A				16	5/8	6 13/16	N/A					N/A					N/A					29	11/16 x 7/8	29	16	5/16	1666	326	1660	327
33'-5"	N/A				N/A				15	5/8	6 13/16	N/A					N/A					N/A					28	11/16 x 7/8	28	15	5/16	1749	336	1743	337
34'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					26	11/16 x 7/8	26	14	5/16	1834	347	1828	347
35'-5"	N/A				N/A				13	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1920	357	1913	358
36'-5"	N/A				N/A				12	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	12	5/16	2006	367	2000	368
37'-5"	N/A				N/A				12	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2093	378	2087	378
38'-5"	N/A				N/A				11	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2182	388	2175	389
39'-5"	N/A				N/A				11	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2271	398	2265	399
40'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2361	409	2355	409

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	30/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 30 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
7'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	32	2 5/8	3 15/16	4 9/16	33	3	4 1/2	4 9/16	26	2	3	4 9/16
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	18	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	36	3 1/2	5 1/4	5 3/4
13'-5"	1 5/16	0.532	CP1151	334	12	3/8	15	N/A				8	2 5/8	3 15/16	5 7/16	9	3	4 1/2	5 7/16	11	3 1/2	5 1/4	5 7/16
13'-5"	1 5/16	0.532	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	19	4 1/2	6 3/4	5 3/4	15	4 1/8	6 3/16	5 3/4	12	3 1/2	5 1/4	5 3/4
14'-5"	1 7/16	0.657	CP1151	334	12	3/8	14	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	10	3 1/2	5 1/4	5 7/16
14'-5"	1 7/16	0.657	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	17	4 1/2	6 3/4	5 3/4	14	4 1/8	6 3/16	5 3/4	11	3 1/2	5 1/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	334	11	3/8	12	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	4	2	3	5 7/16
15'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	15	4 1/2	6 3/4	5 3/4	12	4 1/8	6 3/16	5 3/4	7	3 1/2	5 1/4	5 3/4
16'-5"	1 1/2	0.656	CP1152	334	10	3/8	10	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2	3	5 7/16
16'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	19	3 5/8	6	5 3/4	12	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
17'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	22	3 5/8	8	5 3/4	11	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
18'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	5	7 1/2	6 1/4
19'-5"	2	1.156	CP1152	444	10	5/8	18	22	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	5	7 1/2	6 1/4
20'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	5	7 1/2	6 13/16
21'-5"	2	1.156	CP1152	445	9	5/8	18	19	4 3/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	5	7 1/2	6 13/16
22'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	5	7 1/2	6 13/16
23'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	5	7 1/2	6 13/16
24'-5"	2	1.156	CP1152	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	5	7 1/2	6 13/16
25'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
26'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
27'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
28'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	2 1/2	3 3/4	6 7/8
29'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	2 1/2	3 3/4	6 7/8
30'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
32'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
33'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
34'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				6	4 1/2	6 3/4	6 7/8	N/A				N/A			
35'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
36'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
37'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
38'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
39'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	31/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 30 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength														Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
7'-5"	18	3/8	2 1/2	4 9/16	13	3/8	2 5/8	4 9/16	32	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	22 3/4	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	113	0	112
7'-5"	10	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	18	3/8	5 3/4	10 5/16	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	14 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	113	0	112
13'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	19	3/4	4 1/8	6 3/4	5 7/16	19	3/4	4 3/8	7	5 7/16	20	7/16 x 5/8	20	13	3/16	677	203	664	203
13'-5"	11	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	19	1/2	5 3/4	19	1/2	3 5/8	8	5 3/4	28 1/2	3/4	4 1/8	6 3/4	5 3/4	36	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	20	1/4	680	203	664	203
14'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	28 1/2	3/4	4 3/8	8	5 7/16	19	7/16 x 5/8	19	12	3/16	723	217	712	218
14'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	17	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	19	3/4	4 1/8	6 3/4	5 3/4	22 3/4	3/4	4 3/8	7	5 3/4	34	9/16 x 3/4	34	19	1/4	726	218	712	218
15'-5"	8	3/4	4 3/8	5 7/16	N/A				7	3/8	5 7/16	28 1/2	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	N/A					17	7/16 x 5/8	17	11	3/16	818	232	808	233
15'-5"	9	3/4	4 3/8	5 3/4	N/A				15	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	28 1/2	3/4	4 3/8	8	5 3/4	30	9/16 x 3/4	30	16	1/4	820	233	808	233
16'-5"	N/A				N/A				6	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	9	3/16	1013	248	1003	248
16'-5"	N/A				N/A				12	1/2	5 3/4	N/A					36	3/4	5 3/4	8 3/4	5 3/4	N/A					24	9/16 x 3/4	24	13	1/4	1015	248	1003	248
17'-5"	N/A				N/A				11	1/2	5 3/4	N/A					22 3/4	3/4	5 3/4	8 3/4	5 3/4	N/A					21	9/16 x 3/4	21	12	1/4	1156	263	1145	264
18'-5"	N/A				N/A				16	5/8	6 1/4	N/A					36	3/4	5 3/4	8 3/4	6 1/4	22 3/4	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	24	5/16	926	276	918	277
19'-5"	N/A				N/A				15	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1036	291	1028	292
20'-5"	N/A				N/A				16	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	23	5/16	1146	306	1138	307
21'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1256	322	1248	323
22'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1366	337	1358	338
23'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					33	11/16 x 7/8	33	18	5/16	1477	352	1469	353
24'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					31	11/16 x 7/8	31	17	5/16	1589	367	1581	368
25'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					28	11/16 x 7/8	28	16	5/16	1702	383	1694	384
26'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	14	5/16	1816	398	1808	399
27'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1931	413	1923	414
28'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2048	429	2039	430
29'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2166	444	2157	445
30'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2285	459	2277	461
31'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2406	475	2397	476
32'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	10	5/16	2528	491	2519	492
33'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					17	11/16 x 7/8	17	9	5/16	2652	506	2643	507
34'-5"	N/A				N/A				6	3/4	6 7/8	N/A					N/A					N/A					36	11/16 x 7/8	36	21	3/8	2305	518	2297	519
35'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	20	3/8	2411	534	2403	534
36'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					35	13/16 x 1	35	19	3/8	2519	549	2511	550
37'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					33	13/16 x 1	33	18	3/8	2628	565	2620	565
38'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					32	13/16 x 1	32	17	3/8	2738	580	2729	581
39'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					31	13/16 x 1	31	17	3/8	2849	596	2841	596
40'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					30	13/16 x 1	30	16	3/8	2961	611	2953	612

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	32/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 40 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
6'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	28	2 5/8	3 15/16	4 9/16	29	3	4 1/2	4 9/16	22	2	3	4 9/16
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	16	2 5/8	3 15/16	5 3/4	16	3	4 1/2	5 3/4	32	3 1/2	5 1/4	5 3/4
13'-5"	1 3/8	0.531	CP1152	334	10	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	7	3 1/2	5 1/4	5 7/16
13'-5"	1 3/8	0.531	CP1152	344	10	1/2	18	36	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152	334	10	3/8	9	N/A				5	2 5/8	3 15/16	5 7/16	N/A				7	3 1/2	5 1/4	5 7/16
14'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	36	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
15'-5"	1 5/8	0.781	CP1152	444	9	5/8	18	36	4 3/8	8	6 1/4	14	4 1/2	6 3/4	6 1/4	12	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
16'-5"	1 3/4	0.906	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
17'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
18'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
19'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
20'-5"	2	1.156	CP1152	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
21'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
22'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
23'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
24'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
25'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
27'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
31'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
34'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

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CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 40 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
6'-5"	16	3/8	2 1/2	4 9/16	11	3/8	2 5/8	4 9/16	28	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	5	4 9/16	36	7/16 x 5/8	36	36	3/16	0	130	0	129
6'-5"	9	3/8	2 1/2	5 3/4	15	3/4	5 1/4	5 3/4	16	3/8	5 3/4	36	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	130	0	129
13'-5"	N/A				N/A				5	3/8	5 7/16	N/A					22 3/4	3/4	5 3/4	8 3/4	5 7/16	N/A					13	7/16 x 5/8	13	8	3/16	1022	270	1006	271
13'-5"	N/A				N/A				12	1/2	5 3/4	N/A					36	3/4	5 3/4	8 3/4	5 3/4	N/A					24	9/16 x 3/4	24	13	1/4	1024	271	1006	271
14'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	8	3/16	1067	290	1054	291
14'-5"	N/A				N/A				12	1/2	5 3/4	N/A					28 1/2	3/4	5 3/4	8 3/4	5 3/4	N/A					23	9/16 x 3/4	23	12	1/4	1070	291	1054	291
15'-5"	N/A				N/A				14	5/8	6 1/4	N/A					22 3/4	3/4	5 3/4	8 3/4	6 1/4	N/A					36	11/16 x 7/8	36	20	5/16	1127	309	1112	310
16'-5"	N/A				N/A				15	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	23	5/16	1183	329	1170	330
17'-5"	N/A				N/A				15	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	23	5/16	1156	348	1146	349
18'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1297	368	1287	370
19'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					34	11/16 x 7/8	34	19	5/16	1437	389	1427	390
20'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					31	11/16 x 7/8	31	17	5/16	1579	409	1568	410
21'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					27	11/16 x 7/8	27	15	5/16	1720	429	1710	431
22'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	13	5/16	1863	450	1853	451
23'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	12	5/16	2008	470	1997	471
24'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	12	5/16	2154	490	2143	492
25'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2302	511	2291	512
26'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2451	531	2440	533
27'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	9	5/16	2603	552	2592	554
28'-5"	N/A				N/A				10	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	21	3/8	2282	570	2272	570
29'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	20	3/8	2413	590	2403	591
30'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					34	13/16 x 1	34	18	3/8	2545	610	2535	611
31'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					33	13/16 x 1	33	18	3/8	2679	631	2669	632
32'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					31	13/16 x 1	31	17	3/8	2815	652	2804	652
33'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					30	13/16 x 1	30	16	3/8	2952	672	2942	673
34'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					28	13/16 x 1	28	15	3/8	3091	693	3080	693

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	34/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 50 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	26	2 5/8	3 15/16	4 9/16	27	3	4 1/2	4 9/16	21	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	15	2 5/8	3 15/16	5 3/4	15	3	4 1/2	5 3/4	30	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
16'-5"	1 3/4	0.906	CP1152	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
17'-5"	2	1.156	CP1152	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
18'-5"	2	1.156	CP1152 & CP1153	546	8	5/8	18	N/A				11	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
19'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
20'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
21'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
22'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
23'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	DC2	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 50 PSF, Cont.

	Filled CMU								Steel (Wall anchors are the same diameter as assembly fasteners)							Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	15	3/8	2 1/2	4 9/16	10	3/8	2 5/8	4 9/16	26	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	137	0	136
5'-5"	8	3/8	2 1/2	5 3/4	14	3/4	5 1/4	5 3/4	15	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	138	0	136
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1413	363	1395	363
15'-5"	N/A				N/A				12	5/8	6 13/16	33	11/16 x 7/8	33	18	5/16	1476	387	1458	388
16'-5"	N/A				N/A				12	5/8	6 13/16	32	11/16 x 7/8	32	17	5/16	1538	412	1522	413
17'-5"	N/A				N/A				12	5/8	6 13/16	32	11/16 x 7/8	32	18	5/16	1498	435	1485	437
18'-5"	N/A				N/A				11	5/8	6 7/8	28	11/16 x 7/8	28	15	5/16	1668	461	1656	462
19'-5"	N/A				N/A				10	5/8	6 7/8	25	11/16 x 7/8	25	14	5/16	1839	486	1826	488
20'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	2011	512	1999	513
21'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2185	537	2172	539
22'-5"	N/A				N/A				8	5/8	6 7/8	19	11/16 x 7/8	19	11	5/16	2361	563	2348	564
23'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2539	588	2526	590
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2398	636	2387	636
26'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2555	662	2543	662
27'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2712	687	2700	688
28'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2872	713	2860	714
29'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	15	3/8	3034	739	3022	739
30'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	3198	764	3186	765

SHAWN PATRICK KELLEY
LICENSE
No. 58299
5/11/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CORNELL
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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	35/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 60 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	22	2 5/8	3 15/16	4 9/16	23	3	4 1/2	4 9/16	17	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	28	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	13	3	4 1/2	5 3/4	25	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				N/A			
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				N/A			
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	N/A				N/A			
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	13	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	DC2	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			
26'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 60 PSF, Cont.

	Filled CMU										Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	12	3/8	2 1/2	4 9/16	8	3/8	2 5/8	4 9/16	22	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	165	0	163
5'-5"	8	1/2	3 1/2	5 3/4	11	3/4	5 1/4	5 3/4	12	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	165	0	163
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1756	436	1735	436
15'-5"	N/A				N/A				10	5/8	6 7/8	25	11/16 x 7/8	25	14	5/16	1825	465	1804	466
16'-5"	N/A				N/A				10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1892	494	1874	496
17'-5"	N/A				N/A				10	5/8	6 7/8	25	11/16 x 7/8	25	14	5/16	1839	523	1825	525
18'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	2039	553	2024	555
19'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2240	584	2226	586
20'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2444	614	2429	616
21'-5"	N/A				N/A				7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2649	645	2634	647
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2898	764	2883	765
26'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3083	795	3069	796

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	36/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
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CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 65 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	25	2 5/8	3 15/16	4 9/16	26	3	4 1/2	4 9/16	20	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	14	2 5/8	3 15/16	5 3/4	14	3	4 1/2	5 3/4	28	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	13	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	DC2	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 65 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	14	3/8	2 1/2	4 9/16	10	3/8	2 5/8	4 9/16	25	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	146	0	144
4'-5"	8	3/8	2 1/2	5 3/4	13	3/4	5 1/4	5 3/4	14	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	147	0	144
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1928	473	1906	473
15'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	13	5/16	2000	504	1977	506
16'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2070	536	2050	538
17'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	2010	566	1994	568
18'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2224	599	2209	602
19'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2441	633	2425	635
20'-5"	N/A				N/A				7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2660	666	2644	668
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	3147	828	3132	829

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/1/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	37/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 70 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	23	2 5/8	3 15/16	4 9/16	24	3	4 1/2	4 9/16	18	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	13	2 5/8	3 15/16	5 3/4	13	3	4 1/2	5 3/4	10	2	3	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
18'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	13	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 70 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	13	3/8	2 1/2	4 9/16	9	3/8	2 5/8	4 9/16	23	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	157	0	155
4'-5"	8	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	13	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	158	0	155
14'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2112	508	2084	510
15'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2174	543	2150	545
16'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2247	577	2226	579
17'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2180	610	2164	612
18'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2410	646	2393	648
19'-5"	N/A				N/A				7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2642	682	2625	684
20'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2367	714	2352	715
21'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2568	750	2552	750
22'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2771	785	2755	786
23'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2976	821	2961	822
24'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	3185	857	3169	858

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	38/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
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CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 80 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	20	2 5/8	3 15/16	4 9/16	21	3	4 1/2	4 9/16	16	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	16	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
18'-5"	2 1/8	1.281	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
19'-5"	2 3/8	1.531	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	16	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 80 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
DBG Up To	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	11	3/8	2 1/2	4 9/16	8	3/8	2 5/8	4 9/16	20	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	180	0	177
4'-5"	8	3/4	3 1/4	5 3/4	10	3/4	5 1/4	5 3/4	11	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	180	0	177
14'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2458	581	2427	584
15'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2523	621	2496	623
16'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2602	660	2578	662
17'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2522	698	2503	700
18'-5"	N/A				N/A				8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2637	739	2612	740
19'-5"	N/A				N/A				8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2615	777	2596	778
20'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2727	816	2709	817
21'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2954	857	2936	858

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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	39/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
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CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 90 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	CP0417	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	18	2 5/8	3 15/16	4 9/16	18	3	4 1/2	4 9/16	14	2	3	4 9/16
4'-5"	N/A	N/A	CP0417	344*	12	3/8	24	11	2 3/8	5	5 3/4	10	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	20	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	648	6	3/4	18	N/A				6	4 1/2	6 3/4	6 7/8	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
16'-5"	1 3/4	0.906	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
17'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
18'-5"	2 1/8	1.281	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
19'-5"	2 3/8	1.531	CP1152 & CP1153	648	6	3/4	16	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0296 Minimum Thickness Galvanized or Stainless Steel - 90 PSF, Cont.

	Filled CMU								Steel (Wall anchors are the same diameter as assembly fasteners)							Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	10	3/8	2 1/2	4 9/16	8	1/2	3 1/2	4 9/16	18	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	202	0	199
4'-5"	12	3/4	4 3/8	5 3/4	9	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	203	0	199
14'-5"	N/A				N/A				6	3/4	6 7/8	31	11/16 x 7/8	31	17	3/8	2819	657	2772	658
15'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2886	701	2845	702
16'-5"	N/A				N/A				8	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2970	745	2933	746
17'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2875	787	2845	788
18'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2989	832	2962	833
19'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2963	875	2941	876
20'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3086	919	3067	920

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	40/53

DWG NO: ES-16-62-CIW

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CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 20 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
10'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	35	2 5/8	3 15/16	4 9/16	36	3	4 1/2	4 9/16	27	2	3	4 9/16
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	20	2 5/8	3 15/16	5 3/4	20	3	4 1/2	5 3/4	36	3 1/2	5 1/4	5 3/4
13'-5"	1 5/16	0.532	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	23	2 5/8	3 15/16	5 3/16	24	3	4 1/2	5 3/16	31	3 1/2	5 1/4	5 3/16
13'-5"	1 5/16	0.532	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	36	4 1/2	6 3/4	5 3/4	36	4 1/8	6 3/16	5 3/4	36	3 1/2	5 1/4	5 3/4
14'-5"	1 7/16	0.657	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	18	2 5/8	3 15/16	5 3/16	18	3	4 1/2	5 3/16	24	3 1/2	5 1/4	5 3/16
14'-5"	1 7/16	0.657	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	36	4 1/2	6 3/4	5 3/4	35	4 1/8	6 3/16	5 3/4	29	3 1/2	5 1/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	36	2 3/8	4	5 3/16	14	2 5/8	3 15/16	5 3/16	14	3	4 1/2	5 3/16	9	2	3	5 3/16
15'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	2 1/4	4	5 3/4	34	4 1/2	6 3/4	5 3/4	27	4 1/8	6 3/16	5 3/4	15	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.719	CP1151	333	12	3/8	18	16	2 3/8	5	5 3/16	11	2 5/8	3 15/16	5 3/16	11	3	4 1/2	5 3/16	7	2	3	5 3/16
16'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	16	2 1/4	4	5 3/4	26	4 1/2	6 3/4	5 3/4	21	4 1/8	6 3/16	5 3/4	12	2 1/2	3 3/4	5 3/4
17'-5"	1 1/2	0.719	CP1151	333	12	3/8	17	N/A				9	2 5/8	3 15/16	5 3/16	9	3	4 1/2	5 3/16	5	2	3	5 3/16
17'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	22	4 1/2	6 3/4	5 3/4	17	4 1/8	6 3/16	5 3/4	10	2 1/2	3 3/4	5 3/4
18'-5"	1 1/2	0.719	CP1151	334	12	3/8	15	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	5	2	3	5 7/16
18'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	18	4 1/2	6 3/4	5 3/4	15	4 1/8	6 3/16	5 3/4	8	2 1/2	3 3/4	5 3/4
19'-5"	1 1/2	0.719	CP1151	334	11	3/8	13	N/A				7	2 5/8	3 15/16	5 7/16	7	3	4 1/2	5 7/16	4	2	3	5 7/16
19'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	16	4 1/2	6 3/4	5 3/4	13	4 1/8	6 3/16	5 3/4	7	2 1/2	3 3/4	5 3/4
20'-5"	1 1/2	0.656	CP1152	334	10	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
20'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	28	3 5/8	6	5 3/4	14	4 1/2	6 3/4	5 3/4	11	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
21'-5"	1 1/2	0.656	CP1152	334	10	3/8	10	N/A				5	2 5/8	3 15/16	5 7/16	N/A				4	2 1/2	3 3/4	5 7/16
21'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	36	3 5/8	8	5 3/4	12	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
22'-5"	1 1/2	0.656	CP1152	344	9	1/2	18	28	3 5/8	8	5 3/4	11	4 1/2	6 3/4	5 3/4	9	4 1/8	6 3/16	5 3/4	7	3 1/2	5 1/4	5 3/4
23'-5"	2	1.219	CP1151	444	11	5/8	18	36	4 3/8	6	6 1/4	18	4 1/2	6 3/4	6 1/4	15	5 1/8	7 11/16	6 1/4	7	3	4 1/2	6 1/4
24'-5"	2	1.156	CP1152	444	10	5/8	18	36	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
25'-5"	2	1.156	CP1152	444	10	5/8	18	22	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
26'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	14	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
27'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
28'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
29'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
30'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
31'-5"	2	1.156	CP1152	445	8	5/8	18	22	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
32'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				10	5	7 1/2	6 13/16
33'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
34'-5"	2	1.156	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
35'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
36'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
37'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
38'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
39'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
40'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			

SHAWN PATRICK KELLEY
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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	41/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
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A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 20 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
10'-5"	8	3/8	1 5/8	4 9/16	13	3/8	2 5/8	4 9/16	35	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	105	0	105
10'-5"	11	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	20	3/8	5 3/4	7 1/8	3/8	2 5/16	4	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	105	0	105
13'-5"	14	3/8	2 1/2	5 3/16	10	3/8	2 5/8	5 3/16	23	3/8	5 3/16	28 1/2	3/8	2 5/16	4	5 3/16	14 1/4	3/8	1 7/8	3 1/4	5 3/16	36	3/8	2	5	5 3/16	36	7/16 x 5/8	36	36	3/16	207	135	195	135
13'-5"	14	1/2	2 1/4	5 3/4	14	1/2	3 1/2	5 3/4	36	1/2	5 3/4	19	1/2	2 3/8	4	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	36	1/4	210	135	195	135
14'-5"	11	3/8	2 1/2	5 3/16	9	1/2	3 1/2	5 3/16	18	3/8	5 3/16	36	1/2	3 5/8	6	5 3/16	36	3/8	2 7/8	4 1/2	5 3/16	36	1/2	2 1/2	4	5 3/16	36	7/16 x 5/8	36	33	3/16	272	145	261	145
14'-5"	11	1/2	2 1/4	5 3/4	11	1/2	3 1/2	5 3/4	36	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	36	1/4	274	145	261	145
15'-5"	8	3/8	2 1/2	5 3/16	12	3/4	5 1/4	5 3/16	14	3/8	5 3/16	36	1/2	3 5/8	6	5 3/16	36	3/8	2 7/8	4 1/2	5 3/16	14 1/4	1/2	2 1/2	4	5 3/16	36	7/16 x 5/8	36	25	3/16	361	155	352	155
15'-5"	8	1/2	2 1/4	5 3/4	8	1/2	3 1/2	5 3/4	34	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	36	1/2	2 3/4	4 1/2	5 3/4	36	1/2	2 1/2	4	5 3/4	36	9/16 x 3/4	36	36	1/4	363	155	352	155
16'-5"	8	3/4	3 1/4	5 3/16	10	3/4	5 1/4	5 3/16	11	3/8	5 3/16	36	1/2	3 5/8	8	5 3/16	28 1/2	1/2	3 7/8	6	5 3/16	19	1/2	3 3/4	8	5 3/16	29	7/16 x 5/8	29	19	3/16	475	165	467	165
16'-5"	9	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	26	1/2	5 3/4	36	1/2	3 5/8	6	5 3/4	28 1/2	1/2	2 3/4	4 1/2	5 3/4	16 1/4	1/2	3 3/4	6	5 3/4	36	9/16 x 3/4	36	28	1/4	477	165	467	165
17'-5"	10	3/4	4 3/8	5 3/16	8	3/4	5 1/4	5 3/16	9	3/8	5 3/16	36	3/4	5 9/16	8	5 3/16	22 3/4	3/4	4 1/8	6 3/4	5 3/16	22 3/4	3/4	4 3/8	7	5 3/16	23	7/16 x 5/8	23	15	3/16	584	175	576	175
17'-5"	8	1/2	3 1/2	5 3/4	9	3/4	5 1/4	5 3/4	22	1/2	5 3/4	36	1/2	3 5/8	8	5 3/4	28 1/2	1/2	3 7/8	6	5 3/4	19	1/2	3 3/4	8	5 3/4	36	9/16 x 3/4	36	23	1/4	585	175	576	175
18'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	16 1/4	3/4	4 1/8	6 3/4	5 7/16	16 1/4	3/4	4 3/8	7	5 7/16	20	7/16 x 5/8	20	13	3/16	689	185	681	185
18'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	18	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	28 1/2	3/4	4 1/8	6 3/4	5 3/4	28 1/2	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	20	1/4	690	185	681	185
19'-5"	8	3/4	4 3/8	5 7/16	N/A				7	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	19	3/4	4 3/8	8	5 7/16	17	7/16 x 5/8	17	11	3/16	792	195	784	195
19'-5"	9	3/4	4 3/8	5 3/4	N/A				16	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	36	3/4	4 3/8	8	5 3/4	31	9/16 x 3/4	31	17	1/4	793	195	784	195
20'-5"	N/A				N/A				6	3/8	5 7/16	N/A					N/A					N/A					14	7/16 x 5/8	14	9	3/16	945	205	938	206
20'-5"	8	3/4	4 3/8	5 3/4	N/A				14	1/2	5 3/4	22 3/4	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	N/A					26	9/16 x 3/4	26	14	1/4	947	206	938	206
21'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					13	7/16 x 5/8	13	8	3/16	1049	216	1042	216
21'-5"	N/A				N/A				12	1/2	5 3/4	N/A					N/A					N/A					23	9/16 x 3/4	23	13	1/4	1050	216	1042	216
22'-5"	N/A				N/A				11	1/2	5 3/4	N/A					N/A					N/A					21	9/16 x 3/4	21	12	1/4	1154	226	1145	226
23'-5"	8	3/4	4 3/8	6 1/4	N/A				18	5/8	6 1/4	28 1/2	3/4	5 9/16	8	6 1/4	22 3/4	5/8	5 1/8	7 7/8	6 1/4	28 1/2	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	25	5/16	876	234	871	235
24'-5"	N/A				N/A				16	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	986	244	980	245
25'-5"	N/A				N/A				15	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1067	255	1061	255
26'-5"	N/A				N/A				16	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	23	5/16	1148	265	1142	265
27'-5"	N/A				N/A				15	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	1229	275	1224	275
28'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1311	285	1305	285
29'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					35	11/16 x 7/8	35	19	5/16	1394	295	1388	296
30'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					33	11/16 x 7/8	33	18	5/16	1476	305	1471	306
31'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					31	11/16 x 7/8	31	17	5/16	1560	315	1554	316
32'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					29	11/16 x 7/8	29	16	5/16	1644	325	1638	326
33'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					28	11/16 x 7/8	28	15	5/16	1729	336	1723	336
34'-5"	N/A				N/A				10	5/8	6 13/16	N/A					N/A					N/A					27	11/16 x 7/8	27	15	5/16	1815	346	1809	346
35'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1902	356	1895	357
36'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	13	5/16	1989	366	1983	367
37'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2077	376	2071	377
38'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	11	5/16	2167	387	2160	387
39'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2257	397	2250	398
40'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	11	5/16	2348	407	2341	408

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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	42/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 30 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
7'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	32	2 5/8	3 15/16	4 9/16	33	3	4 1/2	4 9/16	26	2	3	4 9/16
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	18	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	36	3 1/2	5 1/4	5 3/4
13'-5"	1 5/16	0.532	CP1151	333	12	3/8	17	N/A				9	2 5/8	3 15/16	5 3/16	9	3	4 1/2	5 3/16	12	3 1/2	5 1/4	5 3/16
13'-5"	1 5/16	0.532	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	23	4 1/2	6 3/4	5 3/4	18	4 1/8	6 3/16	5 3/4	15	3 1/2	5 1/4	5 3/4
14'-5"	1 7/16	0.657	CP1151	334	12	3/8	15	N/A				9	2 5/8	3 15/16	5 7/16	9	3	4 1/2	5 7/16	11	3 1/2	5 1/4	5 7/16
14'-5"	1 7/16	0.657	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	20	4 1/2	6 3/4	5 3/4	16	4 1/8	6 3/16	5 3/4	13	3 1/2	5 1/4	5 3/4
15'-5"	1 1/2	0.719	CP1151	334	12	3/8	13	N/A				8	2 5/8	3 15/16	5 7/16	8	3	4 1/2	5 7/16	5	2	3	5 7/16
15'-5"	1 1/2	0.719	CP1151	344	12	1/2	18	36	3 5/8	6	5 3/4	17	4 1/2	6 3/4	5 3/4	14	4 1/8	6 3/16	5 3/4	8	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.719	CP1151	334	11	3/8	11	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	5	2 1/2	3 3/4	5 7/16
16'-5"	1 1/2	0.719	CP1151	344	11	1/2	18	36	3 5/8	6	5 3/4	14	4 1/2	6 3/4	5 3/4	12	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
17'-5"	1 1/2	0.656	CP1152	334	10	3/8	9	N/A				5	2 5/8	3 15/16	5 7/16	N/A				6	3 1/2	5 1/4	5 7/16
17'-5"	1.5	0.656	CP1152	344	10	1/2	18	36	3.625	8	5.75	12	4.5	6.75	5.75	9	4.125	6.1875	5.75	8	3.5	5.25	5.75
18'-5"	2	1.219	CP1151	444	11	5/8	18	36	4 3/8	6	6 1/4	18	4 1/2	6 3/4	6 1/4	16	5 1/8	7 11/16	6 1/4	7	3	4 1/2	6 1/4
19'-5"	2	1.156	CP1152	444	10	5/8	18	28	4 3/8	6	6 1/4	16	4 1/2	6 3/4	6 1/4	14	5 1/8	7 11/16	6 1/4	10	4	6	6 1/4
20'-5"	2	1.156	CP1152	445	10	5/8	18	36	4 3/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	15	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
21'-5"	2	1.156	CP1152	445	9	5/8	18	28	4 3/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
22'-5"	2	1.156	CP1152	445	9	5/8	18	36	4 3/8	8	6 13/16	14	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
23'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
24'-5"	2	1.156	CP1152	445	8	5/8	18	N/A				12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
25'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
26'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
27'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
28'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
29'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
30'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
32'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
33'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
34'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
35'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
36'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
37'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
38'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
39'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	43/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 30 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
7'-5"	18	3/8	1 5/8	4 9/16	13	3/8	2 5/8	4 9/16	32	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	36	3/8	1 7/8	3 1/4	4 9/16	22 3/4	3/8	2	4	4 9/16	36	7/16 x 5/8	36	36	3/16	0	113	0	112
7'-5"	10	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	18	3/8	5 3/4	10 5/16	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	14 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	113	0	112
13'-5"	10	3/4	4 3/8	5 3/16	8	3/4	5 1/4	5 3/16	9	3/8	5 3/16	19	1/2	3 5/8	8	5 3/16	36	3/4	4 1/8	6 3/4	5 3/16	28 1/2	3/4	4 3/8	7	5 3/16	25	7/16 x 5/8	25	16	3/16	551	203	536	203
13'-5"	8	1/2	3 1/2	5 3/4	10	3/4	5 1/4	5 3/4	23	1/2	5 3/4	36	1/2	3 5/8	8	5 3/4	36	1/2	3 7/8	6	5 3/4	28 1/2	1/2	3 3/4	8	5 3/4	36	9/16 x 3/4	36	24	1/4	554	203	536	203
14'-5"	10	3/4	4 3/8	5 7/16	8	3/4	5 1/4	5 7/16	9	3/8	5 7/16	N/A					N/A					N/A					22	7/16 x 5/8	22	14	3/16	615	217	602	217
14'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	20	1/2	5 3/4	28 1/2	1/2	3 5/8	8	5 3/4	19	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	9/16 x 3/4	36	22	1/4	617	218	602	217
15'-5"	9	3/4	4 3/8	5 7/16	N/A				8	3/8	5 7/16	36	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	28 1/2	3/4	4 3/8	8	5 7/16	19	7/16 x 5/8	19	12	3/16	723	232	712	232
15'-5"	10	3/4	4 3/8	5 3/4	N/A				17	1/2	5 3/4	36	3/4	5 9/16	8	5 3/4	19	3/4	4 1/8	6 3/4	5 3/4	22 3/4	3/4	4 3/8	7	5 3/4	34	9/16 x 3/4	34	19	1/4	725	233	712	232
16'-5"	N/A				N/A				6	3/8	5 7/16	19	3/4	5 9/16	8	5 7/16	36	3/4	5 3/4	8 3/4	5 7/16	N/A					16	7/16 x 5/8	16	10	3/16	872	247	861	248
16'-5"	8	3/4	4 3/8	5 3/4	N/A				14	1/2	5 3/4	28 1/2	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	N/A					28	9/16 x 3/4	28	15	1/4	874	248	861	248
17'-5"	N/A				N/A				5	3/8	5 7/16	N/A					N/A					N/A					12	7/16 x 5/8	12	8	3/16	1080	263	1069	263
17'-5"	N/A				N/A				12	1/2	5 3/4	N/A					28.5	0.75	5.75	8.75	5.75	N/A					23	9/16 x 3/4	23	12	0.25	1082	263	1069	263
18'-5"	8	3/4	4 3/8	6 1/4	N/A				18	5/8	6 1/4	19	5/8	4 7/16	8	6 1/4	28 1/2	5/8	5 1/8	7 7/8	6 1/4	36	5/8	4 3/4	6 1/4	6 1/4	36	11/16 x 7/8	36	27	5/16	829	276	821	277
19'-5"	N/A				N/A				16	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	23	5/16	976	291	968	292
20'-5"	N/A				N/A				16	5/8	6 13/16	22 3/4	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	25	5/16	1092	306	1083	307
21'-5"	N/A				N/A				15	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	1206	321	1198	322
22'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	20	5/16	1321	336	1313	337
23'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					34	11/16 x 7/8	34	19	5/16	1436	352	1428	353
24'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					31	11/16 x 7/8	31	17	5/16	1551	367	1543	368
25'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					29	11/16 x 7/8	29	16	5/16	1667	382	1659	383
26'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					26	11/16 x 7/8	26	14	5/16	1784	397	1775	398
27'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					24	11/16 x 7/8	24	13	5/16	1901	412	1893	413
28'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	12	5/16	2020	428	2011	429
29'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					21	11/16 x 7/8	21	12	5/16	2140	443	2131	444
30'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2261	458	2252	459
31'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2383	474	2374	475
32'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	10	5/16	2507	489	2498	490
33'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					17	11/16 x 7/8	17	9	5/16	2632	504	2623	506
34'-5"	N/A				N/A				7	3/4	6 7/8	N/A					N/A					N/A					36	11/16 x 7/8	36	21	3/8	2286	517	2278	518
35'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	20	3/8	2394	533	2386	533
36'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					35	13/16 x 1	35	19	3/8	2502	548	2494	549
37'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					34	13/16 x 1	34	18	3/8	2612	563	2604	564
38'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					32	13/16 x 1	32	17	3/8	2723	579	2714	579
39'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					31	13/16 x 1	31	17	3/8	2835	594	2826	595
40'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					30	13/16 x 1	30	16	3/8	2948	609	2939	610

SHAWN PATRICK KELLEY
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No 58299
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	44/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 40 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
7'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	24	2 5/8	3 15/16	4 9/16	25	3	4 1/2	4 9/16	19	2	3	4 9/16
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	14	2 5/8	3 15/16	5 3/4	14	3	4 1/2	5 3/4	28	3 1/2	5 1/4	5 3/4
13'-5"	1 5/16	0.469	CP1152	334	10	3/8	10	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	7	3 1/2	5 1/4	5 7/16
13'-5"	1 5/16	0.469	CP1152	344	10	1/2	18	22	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	8	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152	334	10	3/8	10	N/A				6	2 5/8	3 15/16	5 7/16	6	3	4 1/2	5 7/16	4	2 1/2	3 3/4	5 7/16
14'-5"	1 1/2	0.656	CP1152	344	10	1/2	18	22	3 5/8	6	5 3/4	13	4 1/2	6 3/4	5 3/4	10	4 1/8	6 3/16	5 3/4	6	2 1/2	3 3/4	5 3/4
15'-5"	1 5/8	0.781	CP1152	444	10	5/8	18	28	4 3/8	6	6 1/4	15	4 1/2	6 3/4	6 1/4	13	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
16'-5"	1 3/4	0.906	CP1152	444	9	5/8	18	36	4 3/8	8	6 1/4	14	4 1/2	6 3/4	6 1/4	12	5 1/8	7 11/16	6 1/4	9	4	6	6 1/4
17'-5"	2	1.156	CP1152	445	10	5/8	18	36	4 3/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	15	7 1/2	11 1/4	6 13/16	10	4	6	6 13/16
18'-5"	2	1.156	CP1152	445	9	5/8	18	22	4 3/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	13	7 1/2	11 1/4	6 13/16	9	4	6	6 13/16
19'-5"	2	1.156	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
20'-5"	2	1.156	CP1152	445	8	5/8	18	19	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	N/A				7	4	6	6 13/16
21'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
22'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
23'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
24'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
25'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
27'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
28'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
31'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
34'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
35'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/1/20
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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
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT NON-IMPACT RATED

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	45/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 40 PSF, Cont.

DBG Up To	Filled CMU											Cracked Concrete Minimum 3,000 PSI Compressive Strength															Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Hilti Kwik Bolt TZ					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Dia.	Embed.	Min Wall Thick.	Edge Dist	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
7'-5"	14	3/8	2 1/2	4 9/16	9	3/8	2 5/8	4 9/16	24	3/8	4 9/16	36	3/8	2 5/16	4	4 9/16	22 3/4	3/8	1 7/8	3 1/4	4 9/16	36	3/8	2	5	4 9/16	36	7/16 x 5/8	36	36	3/16	0	150	0	149
7'-5"	8	3/8	2 1/2	5 3/4	13	3/4	5 1/4	5 3/4	14	3/8	5 3/4	36	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	16 1/4	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	150	0	149
13'-5"	N/A				N/A				6	3/8	5 7/16	N/A					28 1/2	3/4	5 3/4	8 3/4	5 7/16	N/A					14	7/16 x 5/8	14	9	3/16	986	270	967	271
13'-5"	N/A				N/A				13	1/2	5 3/4	19	3/4	5 9/16	8	5 3/4	36	3/4	5 3/4	8 3/4	5 3/4	N/A					25	9/16 x 3/4	25	14	1/4	989	271	967	271
14'-5"	N/A				N/A				6	3/8	5 7/16	N/A					N/A					N/A					14	7/16 x 5/8	14	9	3/16	959	290	944	290
14'-5"	N/A				N/A				13	1/2	5 3/4	N/A					N/A					N/A					25	9/16 x 3/4	25	14	1/4	961	290	944	290
15'-5"	N/A				N/A				15	5/8	6 1/4	N/A					36	3/4	5 3/4	8 3/4	6 1/4	N/A					36	11/16 x 7/8	36	22	5/16	1031	309	1015	310
16'-5"	N/A				N/A				14	5/8	6 1/4	N/A					N/A					N/A					36	11/16 x 7/8	36	21	5/16	1098	329	1085	330
17'-5"	N/A				N/A				16	5/8	6 13/16	N/A					36	3/4	5 3/4	8 3/4	6 13/16	N/A					36	11/16 x 7/8	36	25	5/16	1082	348	1071	349
18'-5"	N/A				N/A				14	5/8	6 13/16	N/A					N/A					N/A					36	11/16 x 7/8	36	22	5/16	1230	368	1220	369
19'-5"	N/A				N/A				13	5/8	6 13/16	N/A					N/A					N/A					35	11/16 x 7/8	35	19	5/16	1378	388	1367	389
20'-5"	N/A				N/A				12	5/8	6 13/16	N/A					N/A					N/A					32	11/16 x 7/8	32	17	5/16	1524	408	1514	410
21'-5"	N/A				N/A				11	5/8	6 13/16	N/A					N/A					N/A					29	11/16 x 7/8	29	16	5/16	1671	429	1661	430
22'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					N/A					25	11/16 x 7/8	25	14	5/16	1818	449	1808	450
23'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					23	11/16 x 7/8	23	13	5/16	1967	469	1956	470
24'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					22	11/16 x 7/8	22	12	5/16	2116	489	2105	491
25'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	2267	510	2256	511
26'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					19	11/16 x 7/8	19	10	5/16	2419	530	2408	532
27'-5"	N/A				N/A				7	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	10	5/16	2573	551	2562	552
28'-5"	N/A				N/A				7	3/4	6 7/8	N/A					N/A					N/A					36	11/16 x 7/8	36	21	3/8	2255	569	2245	569
29'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	20	3/8	2387	589	2377	590
30'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					N/A					35	13/16 x 1	35	19	3/8	2521	609	2511	610
31'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					33	13/16 x 1	33	18	3/8	2657	630	2646	630
32'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					31	13/16 x 1	31	17	3/8	2794	650	2783	651
33'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					30	13/16 x 1	30	16	3/8	2932	671	2922	671
34'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					28	13/16 x 1	28	15	3/8	3072	691	3062	692
35'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					27	13/16 x 1	27	15	3/8	3214	711	3203	712

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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	46/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 50 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
6'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	22	2 5/8	3 15/16	4 9/16	23	3	4 1/2	4 9/16	18	2	3	4 9/16
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	28	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	13	3	4 1/2	5 3/4	25	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152	445	8	5/8	18	36	4 3/8	8	6 13/16	13	4 1/2	6 3/4	6 13/16	12	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
16'-5"	1 3/4	0.906	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
17'-5"	2	1.156	CP1152	445	8	5/8	18	28	4 3/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	11	7 1/2	11 1/4	6 13/16	8	4	6	6 13/16
18'-5"	2	1.156	CP1152 & CP1153	445	8	5/8	18	N/A				11	4 1/2	6 3/4	6 13/16	N/A				10	5	7 1/2	6 13/16
19'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
20'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
21'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
22'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
23'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	DC2	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			
27'-5"	2 1/2	1.656	CP1152 & CP1153	DC3	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			
28'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
29'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
30'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 50 PSF, Cont.

DBG Up To	Filled CMU								Steel (Wall anchors are the same diameter as assembly fasteners)							Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
6'-5"	12	3/8	2 1/2	4 9/16	9	3/8	2 5/8	4 9/16	22	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	162	0	161
6'-5"	8	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	12	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	163	0	161
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1304	362	1284	363
15'-5"	N/A				N/A				13	5/8	6 13/16	35	11/16 x 7/8	35	19	5/16	1380	387	1361	388
16'-5"	N/A				N/A				12	5/8	6 13/16	33	11/16 x 7/8	33	18	5/16	1453	411	1437	412
17'-5"	N/A				N/A				12	5/8	6 13/16	34	11/16 x 7/8	34	19	5/16	1423	435	1410	436
18'-5"	N/A				N/A				11	5/8	6 13/16	30	11/16 x 7/8	30	17	5/16	1601	460	1588	462
19'-5"	N/A				N/A				10	5/8	6 7/8	26	11/16 x 7/8	26	14	5/16	1779	486	1766	487
20'-5"	N/A				N/A				9	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1957	511	1944	512
21'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	12	5/16	2136	536	2123	538
22'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2316	561	2303	563
23'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2498	587	2484	589
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2364	635	2352	636
27'-5"	N/A				N/A				N/A			11	13/16 x 1	11	11	3/8	2682	686	2670	686
28'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	16	3/8	2845	711	2832	712
29'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	3008	737	2996	738
30'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	3174	762	3162	763

SHAWN PATRICK KELLEY LICENSE No 58299 5/11/20 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	47/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 60 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
6'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	18	2 5/8	3 15/16	4 9/16	19	3	4 1/2	4 9/16	15	2	3	4 9/16
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	16	2 3/8	5	5 3/4	10	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	21	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	445	7	5/8	18	N/A				10	4 1/2	6 3/4	6 13/16	N/A				9	5	7 1/2	6 13/16
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
19'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
20'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	DC2	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			
27'-5"	2 1/2	1.656	CP1152 & CP1153	DC3	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 60 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
DBG Up To	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
6'-5"	10	3/8	2 1/2	4 9/16	9	1/2	3 1/2	4 9/16	18	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	195	0	193
6'-5"	8	3/4	3 1/4	5 3/4	10	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	195	0	193
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1648	435	1625	436
15'-5"	N/A				N/A				10	5/8	6 13/16	28	11/16 x 7/8	28	15	5/16	1729	464	1707	466
16'-5"	N/A				N/A				10	5/8	6 7/8	26	11/16 x 7/8	26	14	5/16	1808	494	1789	495
17'-5"	N/A				N/A				10	5/8	6 7/8	26	11/16 x 7/8	26	14	5/16	1765	522	1750	524
18'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	13	5/16	1972	553	1957	554
19'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	2180	583	2165	585
20'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2390	613	2374	615
21'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2600	644	2585	646
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2863	762	2849	763
27'-5"	N/A				N/A				N/A			11	13/16 x 1	11	11	3/8	3241	823	3227	824

SHAWN PATRICK KELLEY LICENSE No 58299 STATE OF FLORIDA PROFESSIONAL ENGINEER 2/14/20

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	48/53

DWG NO: ES-16-62-CIW

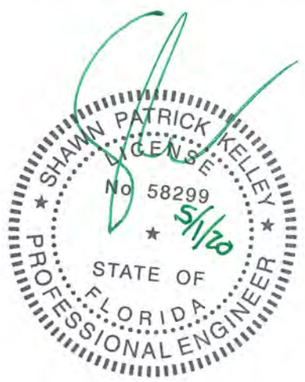
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 65 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	20	2 5/8	3 15/16	4 9/16	21	3	4 1/2	4 9/16	16	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	16	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	23	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	12	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	7	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
18'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	13	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
25'-5"	2 1/2	1.656	CP1152 & CP1153	DC2	6	3/4	15	11	4 3/4	7 1/8	7 1/2	11	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 65 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	11	3/8	2 1/2	4 9/16	8	3/8	2 5/8	4 9/16	20	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	179	0	177
5'-5"	8	3/4	3 1/4	5 3/4	10	3/4	5 1/4	5 3/4	11	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	179	0	177
14'-5"	N/A				N/A				8	1/2	5 3/4	12	9/16 x 3/4	12	12	1/4	1820	472	1796	472
15'-5"	N/A				N/A				10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1904	503	1880	505
16'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	13	5/16	1986	535	1965	537
17'-5"	N/A				N/A				9	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1935	566	1919	568
18'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	12	5/16	2158	599	2142	601
19'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2381	632	2365	634
20'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	9	5/16	2606	665	2590	667
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	3113	826	3097	827



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ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	49/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 70 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	19	2 5/8	3 15/16	4 9/16	19	3	4 1/2	4 9/16	15	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	6	2 3/8	4	5 3/4	10	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	21	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	7	5/8	18	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	7	5/8	17	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
17'-5"	2	1.156	CP1152 & CP1153	546	7	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				7	5	7 1/2	6 7/8
18'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
19'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
23'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 70 PSF, Cont.

	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
DBG Up To	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	10	3/8	2 1/2	4 9/16	9	1/2	3 1/2	4 9/16	19	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	192	0	190
5'-5"	8	3/4	3 1/4	5 3/4	10	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	193	0	190
14'-5"	N/A				N/A				9	5/8	6 7/8	23	11/16 x 7/8	23	13	5/16	2002	507	1973	509
15'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2078	542	2053	544
16'-5"	N/A				N/A				8	5/8	6 7/8	21	11/16 x 7/8	21	12	5/16	2163	576	2141	578
17'-5"	N/A				N/A				8	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	2106	609	2089	612
18'-5"	N/A				N/A				7	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2343	645	2326	647
19'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2582	680	2564	683
20'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2314	713	2298	714
21'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2519	749	2503	749
22'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2726	784	2710	785
23'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2936	819	2920	820
24'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3148	855	3132	856

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/1/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	50/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
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CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																							
								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
5'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	16	2 5/8	3 15/16	4 9/16	17	3	4 1/2	4 9/16	13	2	3	4 9/16
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	19	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	546	6	5/8	16	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	546	6	5/8	15	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
16'-5"	1 3/4	0.906	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	2	1.156	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
18'-5"	2 1/4	1.406	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
22'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 80 PSF, Cont.																				
	Filled CMU										Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
DBG Up To	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	9	3/8	2 1/2	4 9/16	8	1/2	3 1/2	4 9/16	16	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	220	0	217
5'-5"	11	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	9	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	220	0	217
14'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	2348	580	2316	582
15'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2427	619	2399	622
16'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2518	659	2493	661
17'-5"	N/A				N/A				7	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	2447	697	2428	699
18'-5"	N/A				N/A				9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2437	737	2414	737
19'-5"	N/A				N/A				9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2444	775	2425	776
20'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2674	815	2655	816
21'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2905	856	2887	857
22'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3140	896	3122	897

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	51/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
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CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 90 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)															
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	18	2 5/8	3 15/16	4 9/16	18	3	4 1/2	4 9/16	14	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	11	2 3/8	5	5 3/4	10	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	20	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
16'-5"	1 3/4	0.906	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
17'-5"	2	1.156	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
18'-5"	2 1/4	1.406	CP1152 & CP1153	648	6	3/4	18	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	17	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
20'-5"	2 1/2	1.656	CP1152 & CP1153	648	6	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 90 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	10	3/8	2 1/2	4 9/16	8	1/2	3 1/2	4 9/16	18	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	202	0	199
4'-5"	12	3/4	4 3/8	5 3/4	9	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	203	0	199
14'-5"	N/A				N/A				7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2694	653	2658	656
15'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2791	699	2748	700
16'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2886	743	2848	744
17'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2801	786	2770	787
18'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2773	829	2748	830
19'-5"	N/A				N/A				7	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2777	872	2757	873
20'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3033	918	3013	919

SHAWN PATRICK KELLEY
LICENSE
No 58299
5/1/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CORNELL innovative door solutions
24 ELMWOOD AVE 1901 S. LITCHFIELD RD
MOUNTAINTOP, PA GOODYEAR, AZ
P: 800.233.8366
F: 800.526.0841
E: ADS@CORNELLIRON.COM

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

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

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	52/53

DWG NO: ES-16-62-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615
A	REFORMATTED TABLES; HOOD SUPPORT UPDATE	02/14/20	MAN	2027

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 100 PSF

								Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)													
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt			
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist	Max O.C.	Embed	Min. Wall Thick.	Edge Dist
4'-5"	N/A	N/A	N/A	333*	N/A	3/8	24	36	2 3/8	4	4 9/16	16	2 5/8	3 15/16	4 9/16	16	3	4 1/2	4 9/16	13	2	3	4 9/16
4'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	18	3 1/2	5 1/4	5 3/4
14'-5"	1 1/2	0.656	CP1152 & CP1153	648	5	3/4	18	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
15'-5"	1 5/8	0.781	CP1152 & CP1153	648	5	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
16'-5"	1 3/4	0.906	CP1152 & CP1153	648	5	3/4	17	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
17'-5"	2	1.156	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
18'-5"	2 1/4	1.406	CP1152 & CP1153	648	5	3/4	16	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
19'-5"	2 1/2	1.656	CP1152 & CP1153	648	5	3/4	15	N/A				7	5	7 1/2	7 1/2	N/A				N/A			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 100 PSF, Cont.

DBG Up To	Filled CMU											Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads			
	Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt			Welded		Through Bolt	Tapped					
	Max O.C.	Dia.	Embed	Edge Dist	Max O.C.	Dia.	Embed	Edge Dist	Max. O.C.	Dia.	Edge Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
4'-5"	9	3/8	2 1/2	4 9/16	15	3/4	5 1/4	4 9/16	16	3/8	4 9/16	36	7/16 x 5/8	36	36	3/16	0	224	0	221
4'-5"	11	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	9	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	225	0	221
14'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	15	3/8	3057	728	3004	729
15'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3142	777	3095	778
16'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	14	3/8	3243	826	3201	827
17'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3144	874	3110	875
18'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3109	921	3081	923
19'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	3111	969	3089	970

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TJE	B	AS NOTED	53/53

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