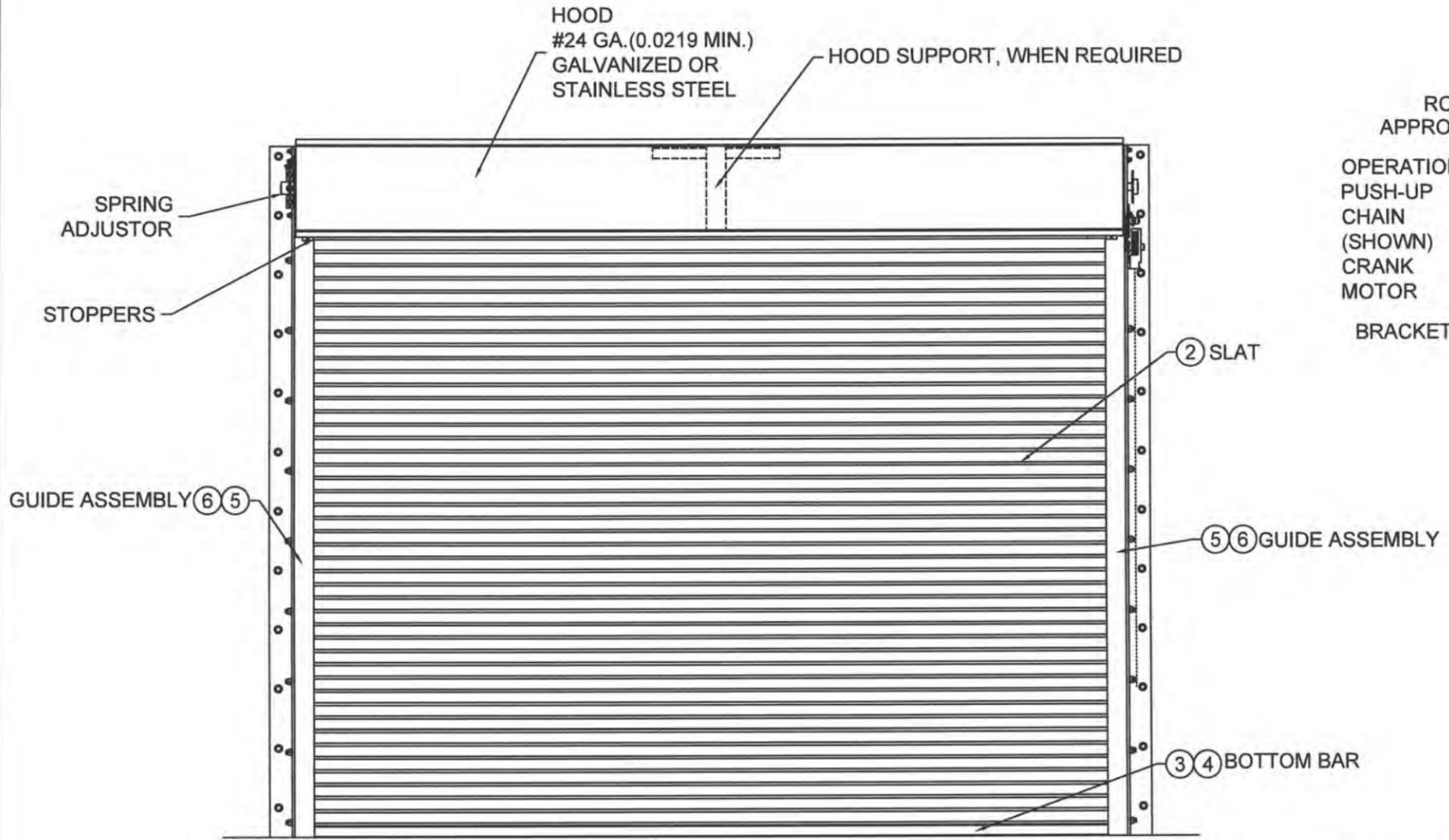
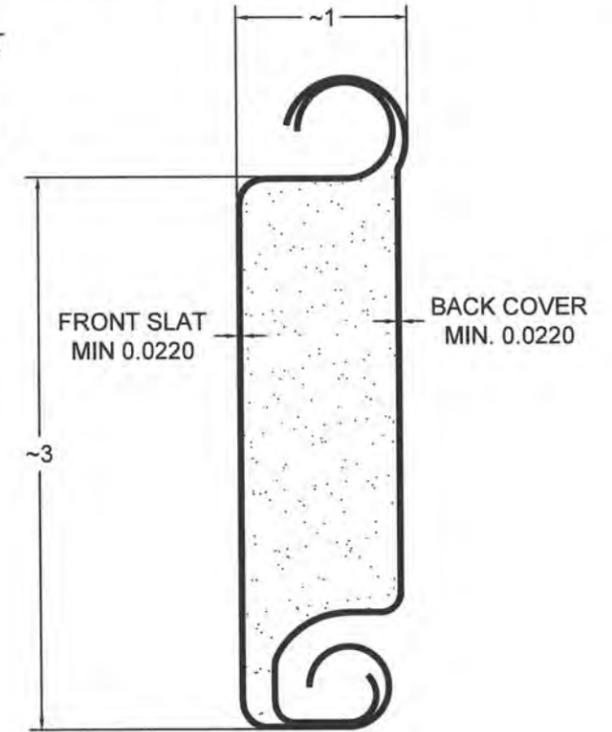
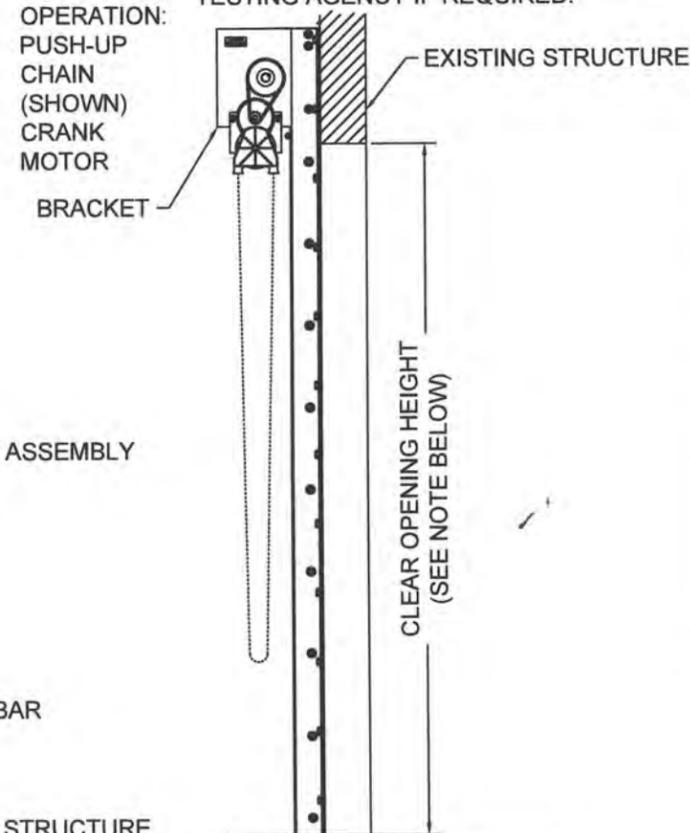


L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027



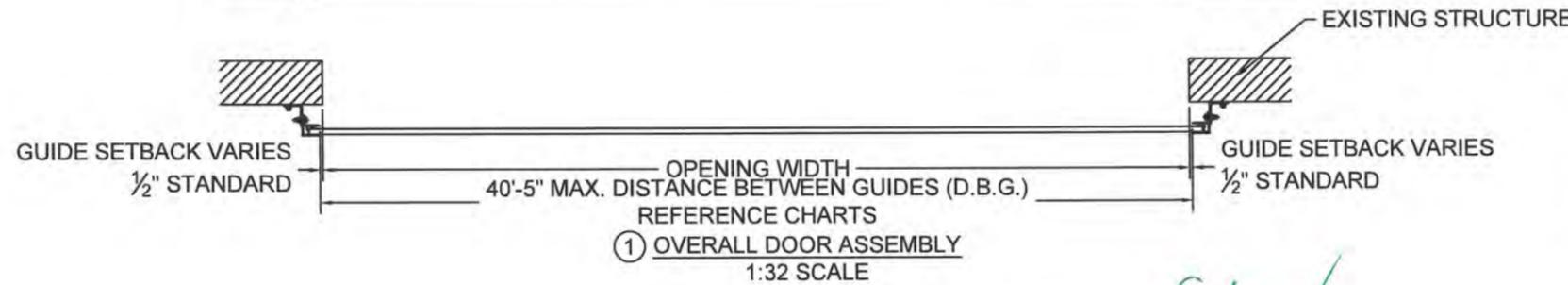
ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



② SLAT DETAIL  
TYPICAL SECTION

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

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

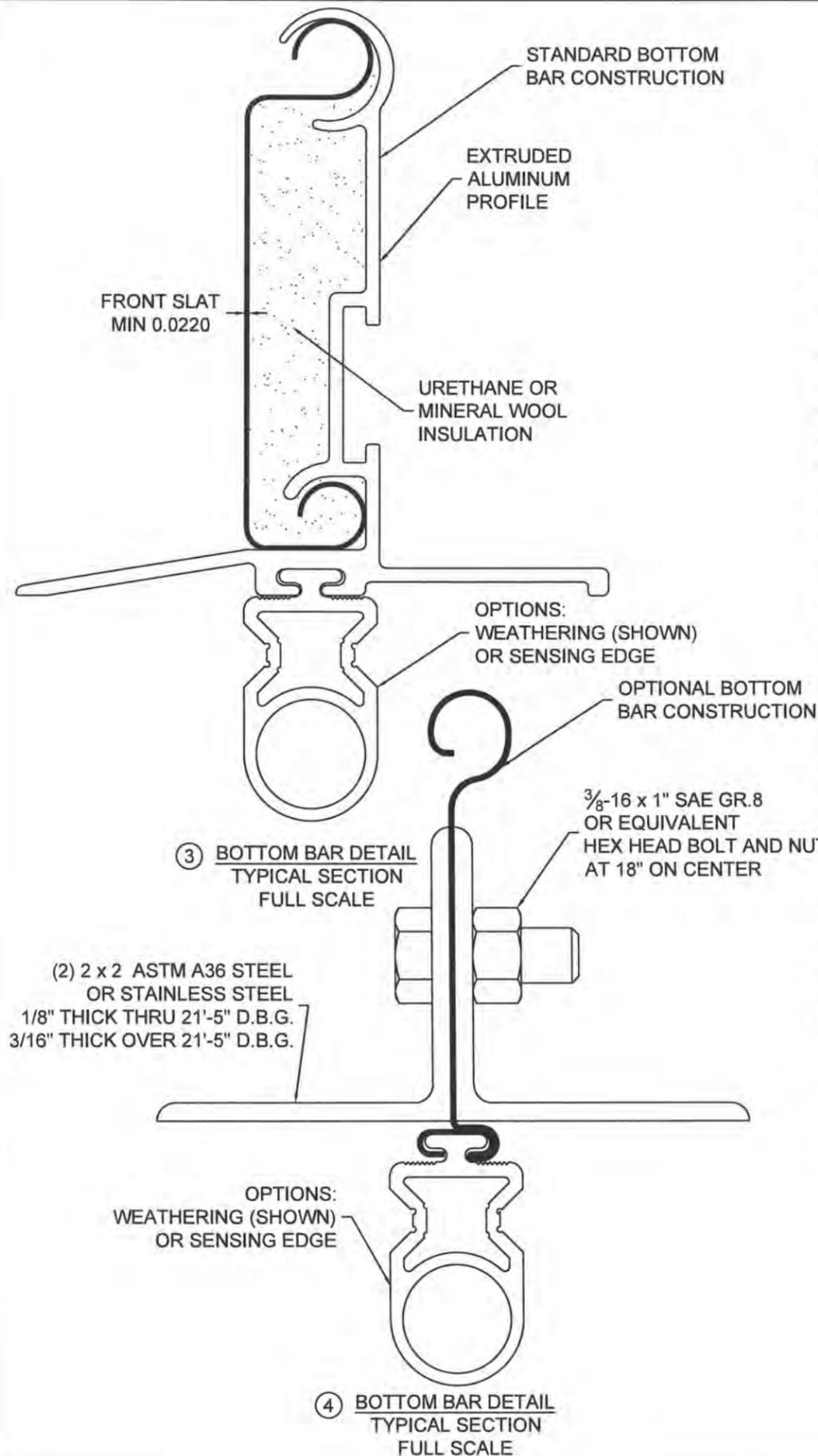


	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-65-CIW

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

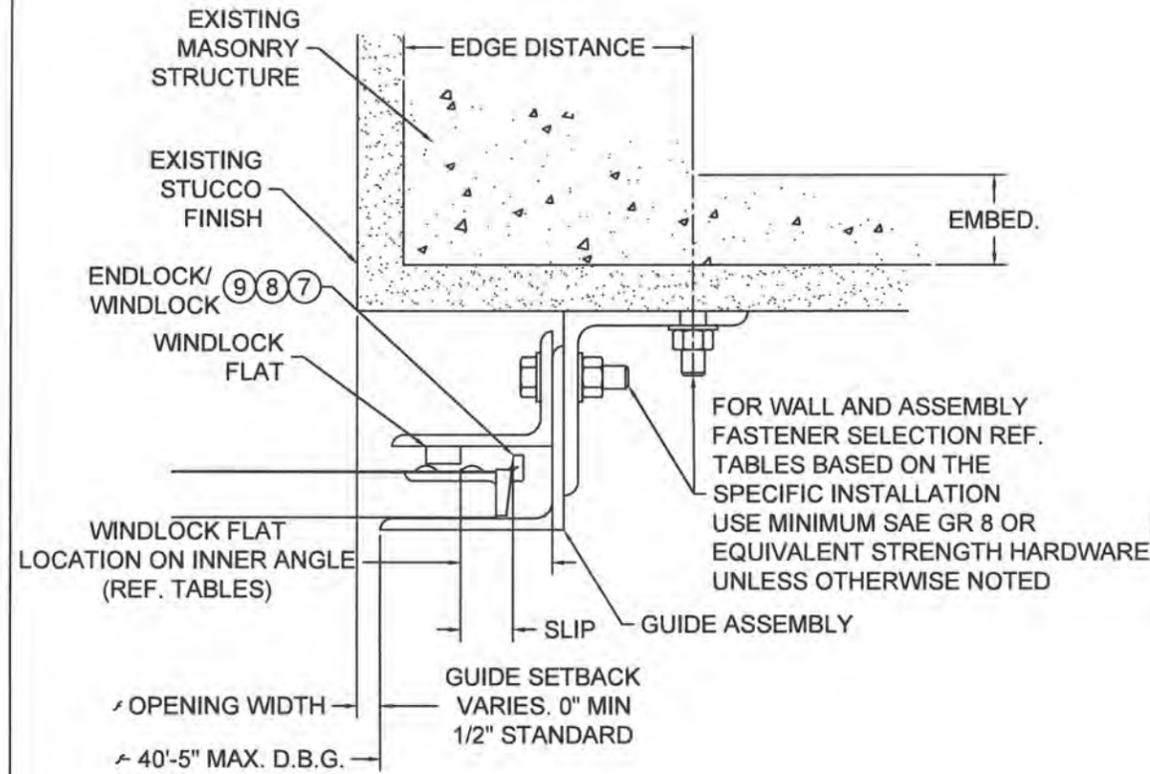
**GENERAL NOTES:**

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



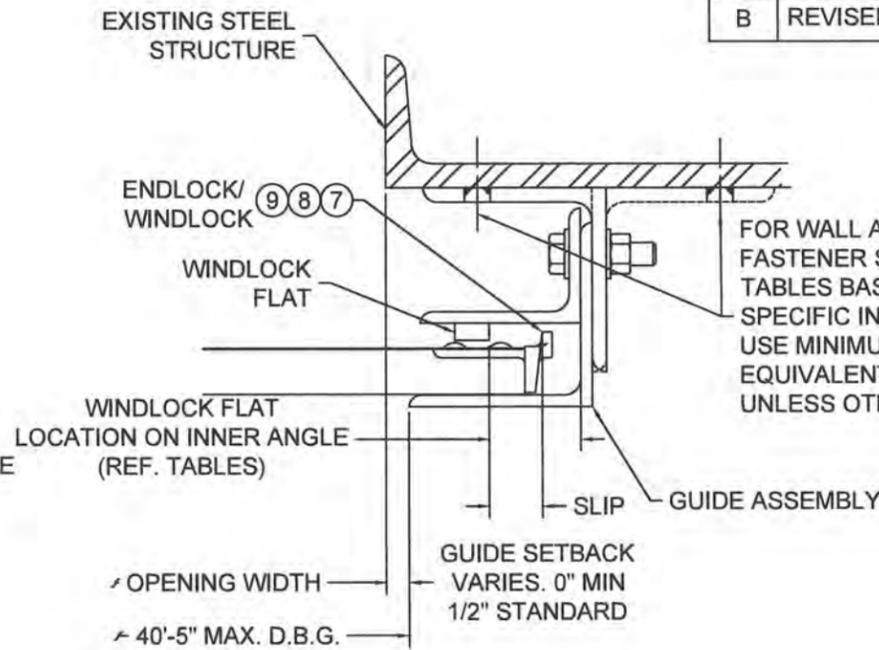
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		DRAWN BY:	SHEET:
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED			TJE	2/58
DWG NO:			ES-16-65-CIW	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

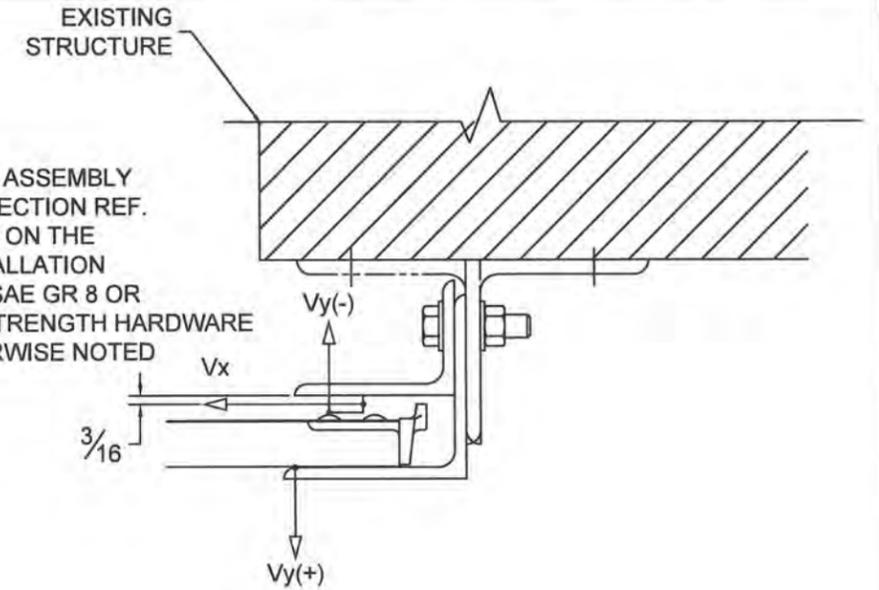


NOTE:  
THROUGH BOLTING TO FILLED BLOCK REQUIRES THE USE  
OF 1/4" THICK STEEL OR STAINLESS STEEL CRUSH PLATE

⑤ GUIDE ASSEMBLY  
CONCRETE & MASONRY STRUCTURE  
(Z-GUIDE)



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



NOTE:

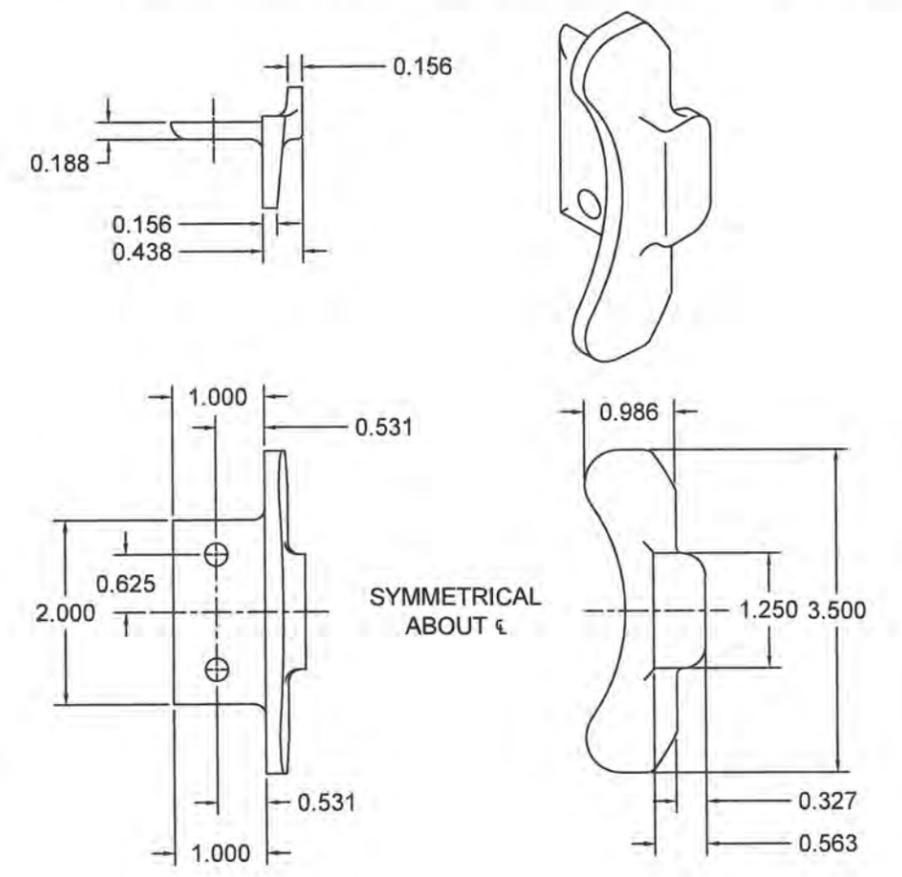
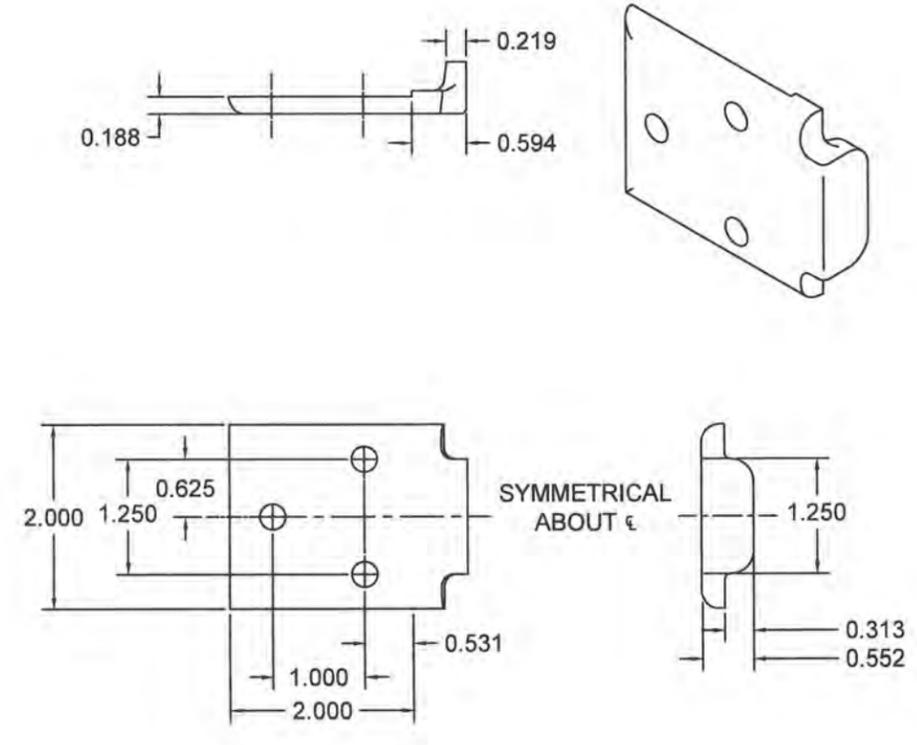
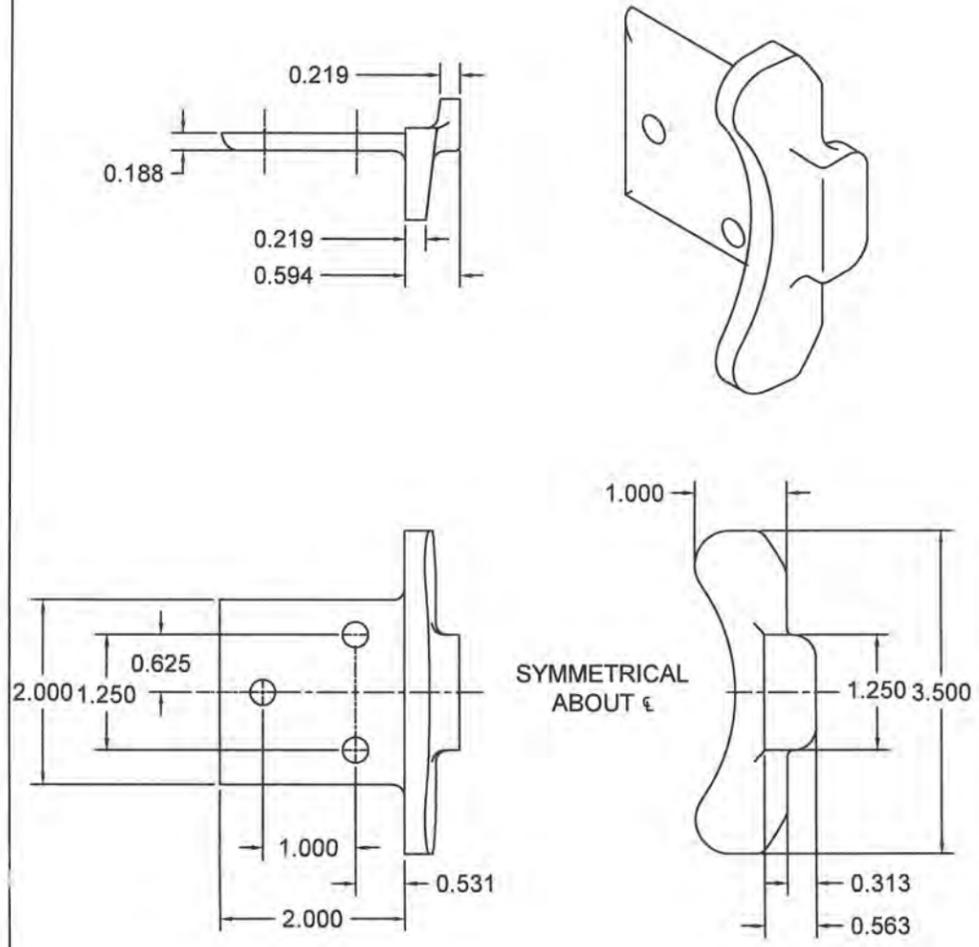
1.  $V_x$  &  $V_y$  ARE HORIZ. AND VERT. COMPONENTS OF THE REACTION, RESPECTIVELY, RESULTING FROM WIND LOADS ON THE ROLL-UP DOOR. THE EXISTING STRUCTURE SHALL BE CAPABLE OF RESISTING  $V_x$  &  $V_y$  FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE ECCENTRICITIES OF THE FORCES.

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



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED
DWG NO: ES-16-65-CIW					

L'TR	REVISION	DATE	BY	E.C.O.
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⑦ CP0630 ENDLOCK / WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH  
 ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE

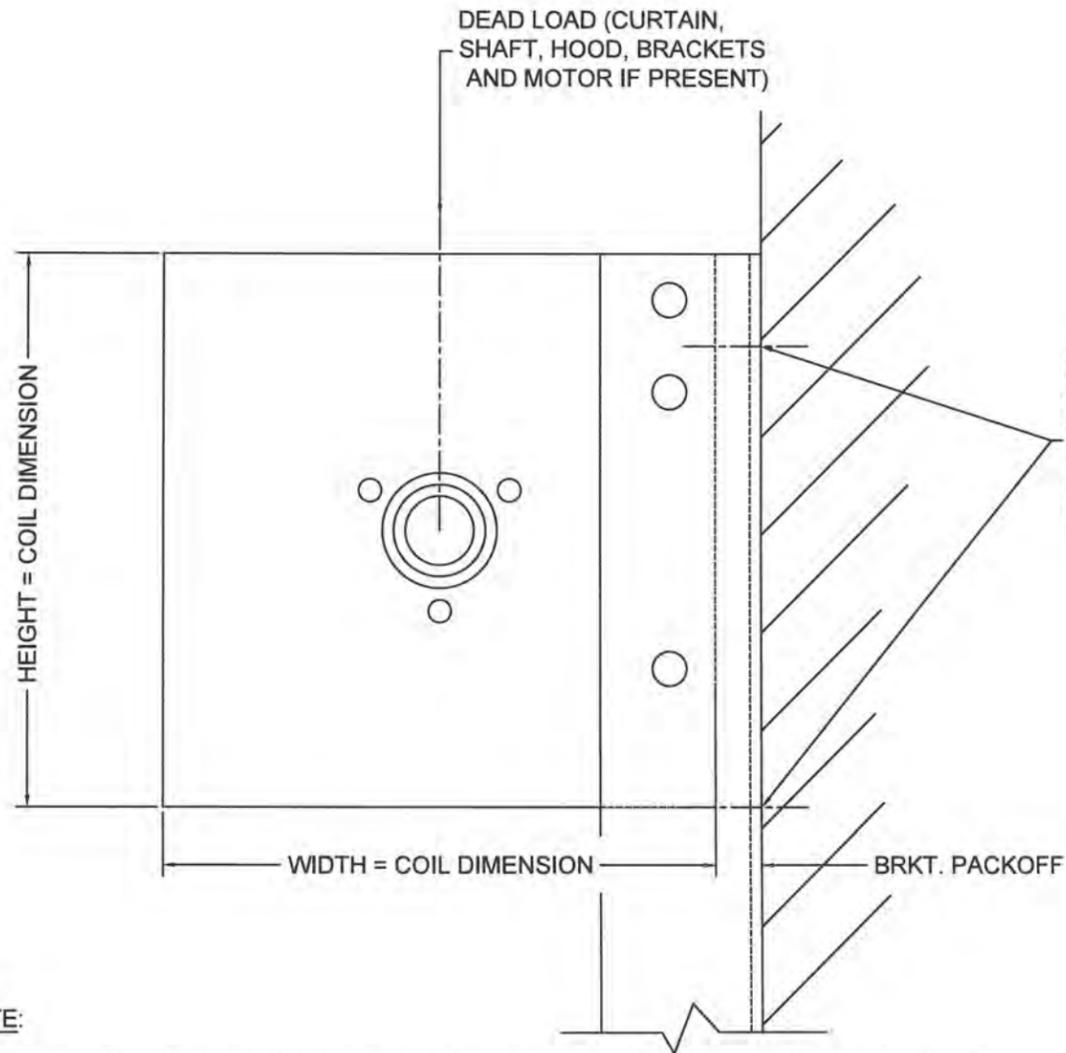
⑧ CP0647 WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN  
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE

⑨ CP0629 ENDLOCK / WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH  
 ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE

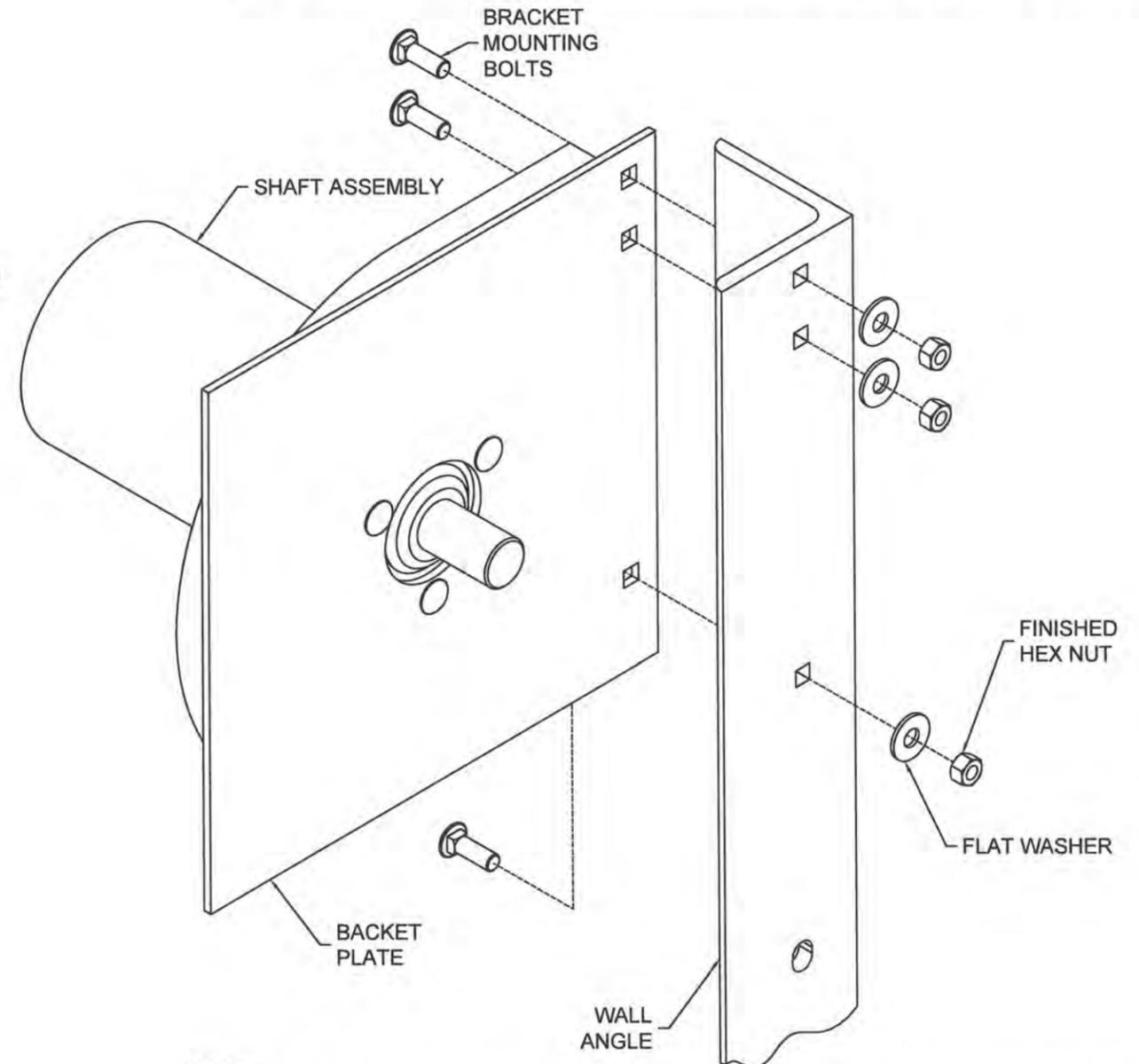


	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION</b> <b>INSULATED ROLLING STEEL DOOR</b> <b>CP0001/CP0651 SLAT NON-IMPACT RATED</b>
	SIZE: <b>B</b> SCALE: <b>AS NOTED</b> SHEET: <b>4/58</b>	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
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FOR "WALL ANGLE" TO WALL CONNECTION, REF. TABLE BASED ON THE SPECIFIC INSTALLATION. USE AT LEAST ONE FASTENER OR WELD AT THE INDICATED LOCATIONS.



**NOTE:**

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

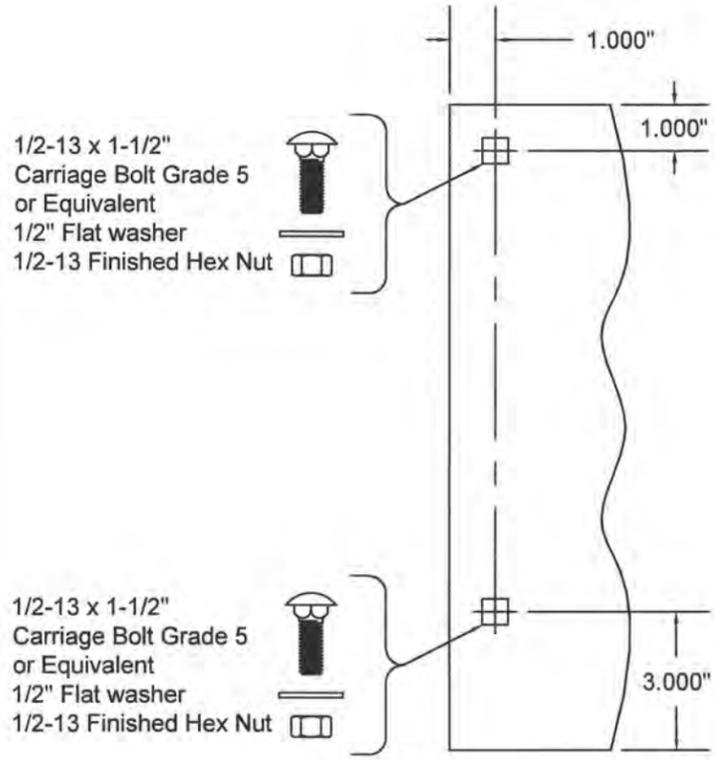
**NOTE:**

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



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION</b> <b>INSULATED ROLLING STEEL DOOR</b> <b>CP0001/CP0651 SLAT NON-IMPACT RATED</b>

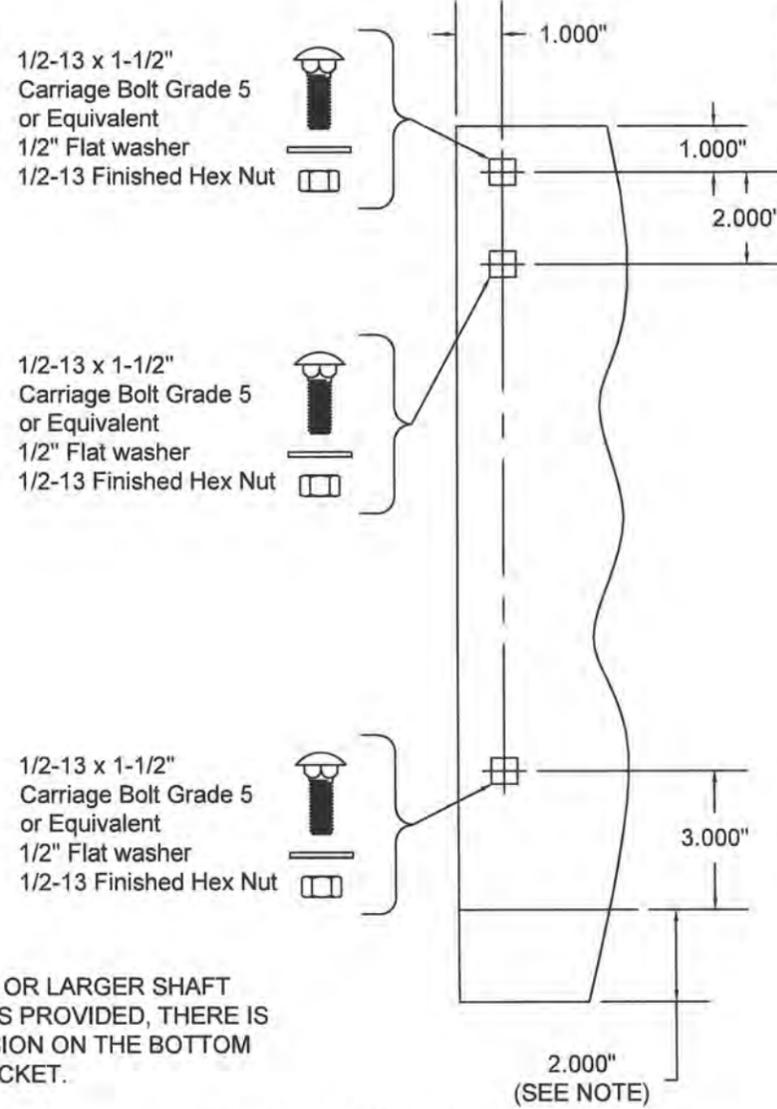
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1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

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



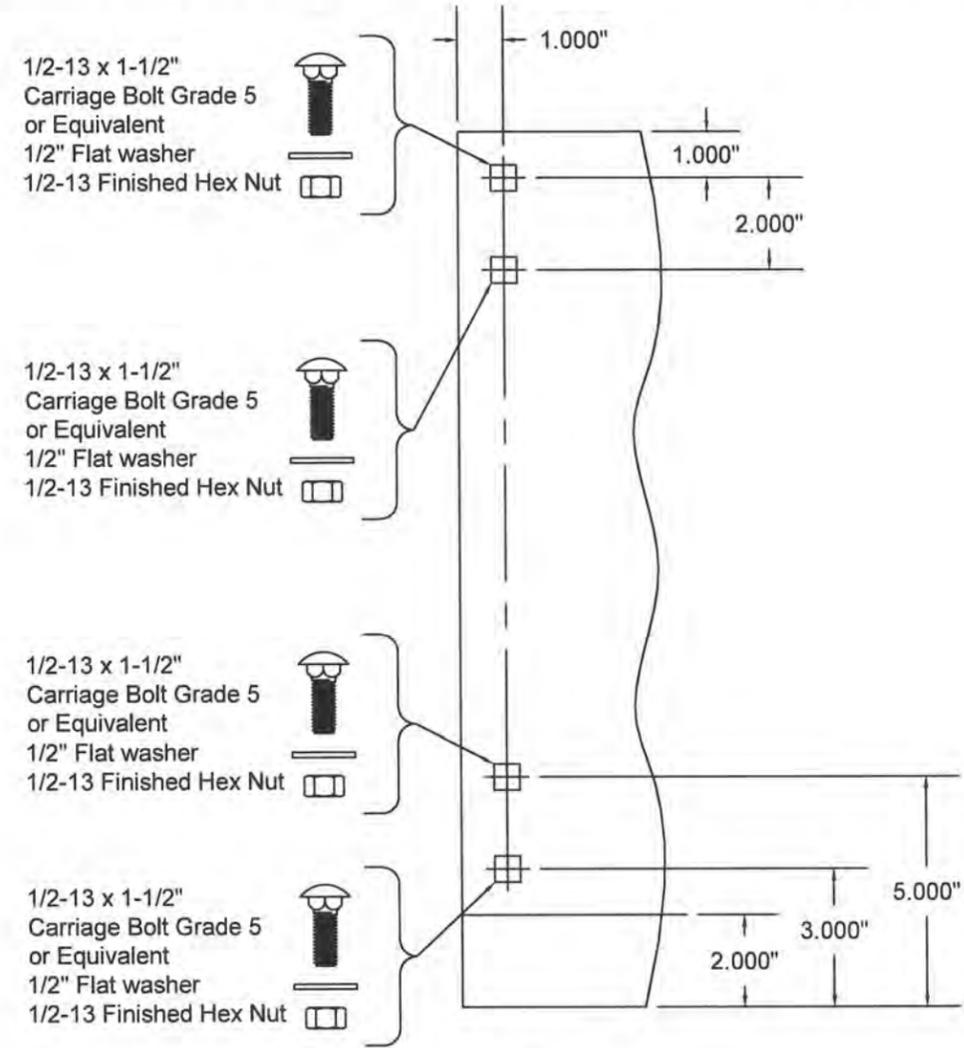
1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

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

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



1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

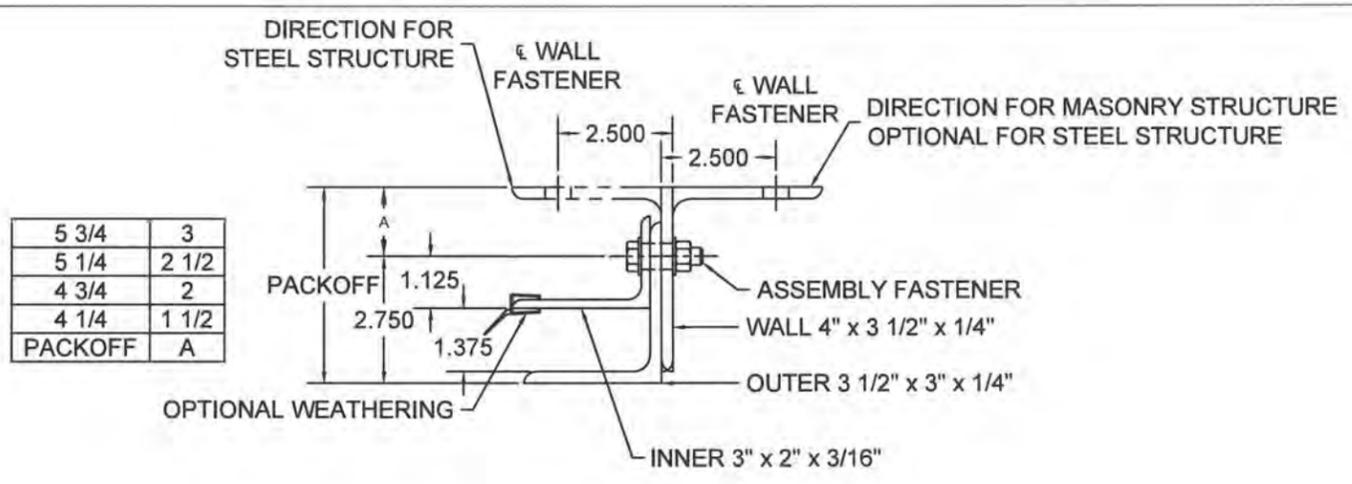
1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

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



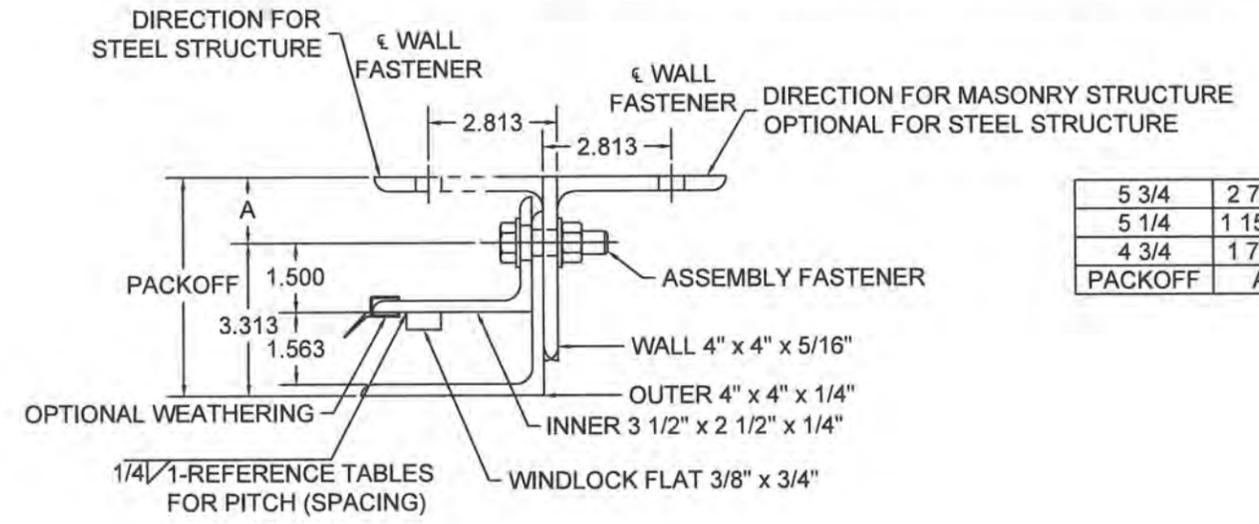
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>6/58</b>
TITLE: <b>WIND LOAD CONFIGURATION</b> <b>INSULATED ROLLING STEEL DOOR</b> <b>CP0001/CP0651 SLAT NON-IMPACT RATED</b>			DWG NO: <b>ES-16-65-CIW</b>			



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

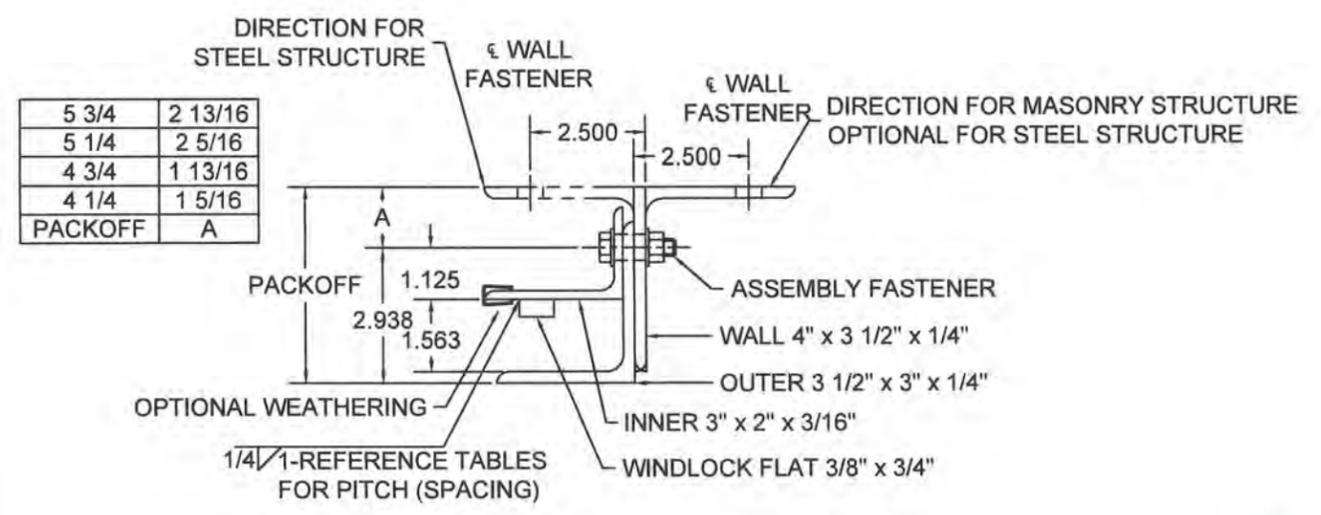
GUIDE ASSEMBLY TYPE 344\* (NON-WINDLOCK)  
SCALE: 3" = 1'-0"

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
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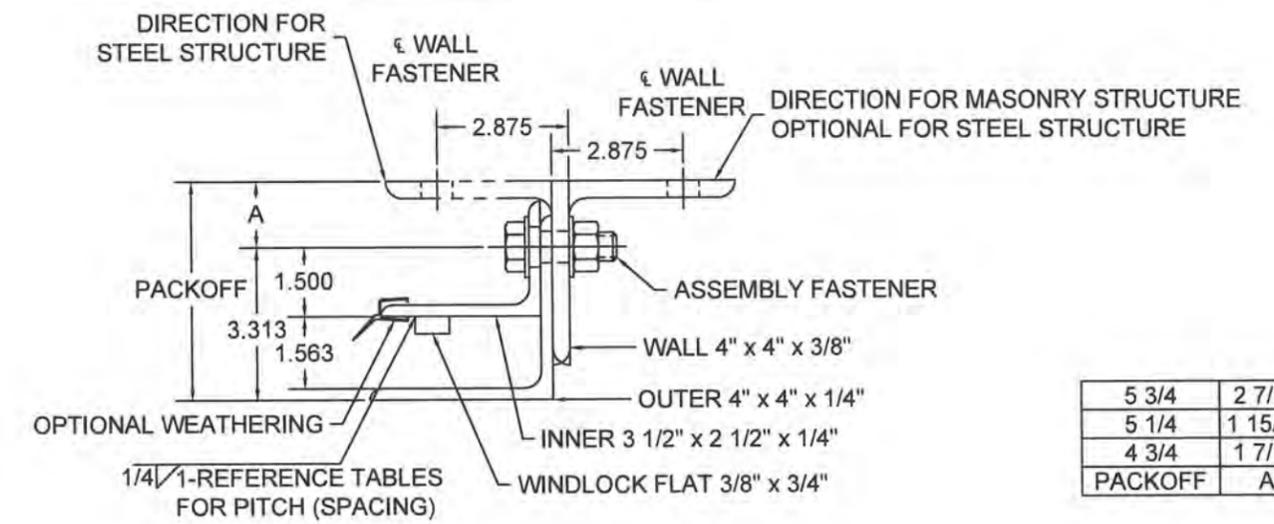
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A

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



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

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



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

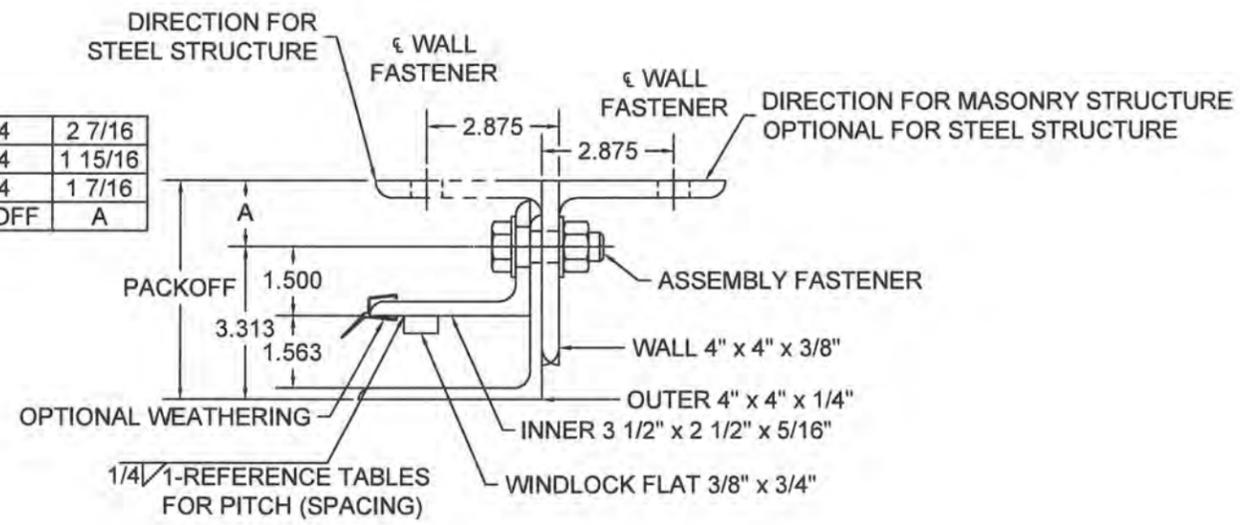
GUIDE ASSEMBLY TYPE 446  
SCALE: 3" = 1'-0"



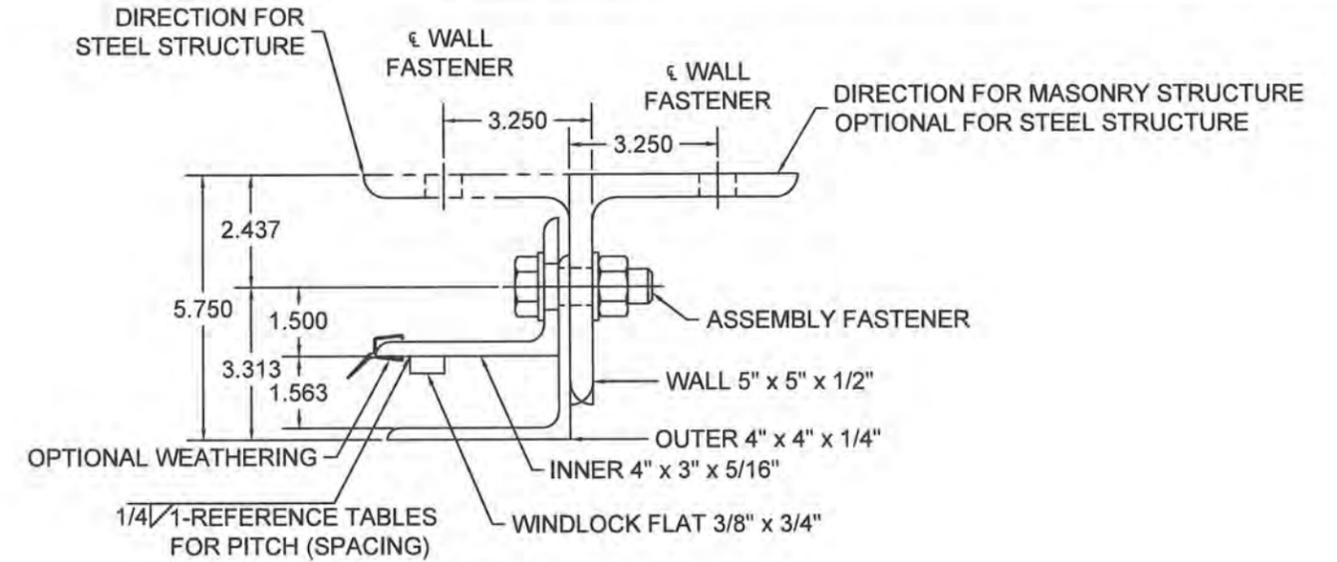
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION                  INSULATED ROLLING STEEL DOOR                  CP0001/CP0651 SLAT NON-IMPACT RATED</b>

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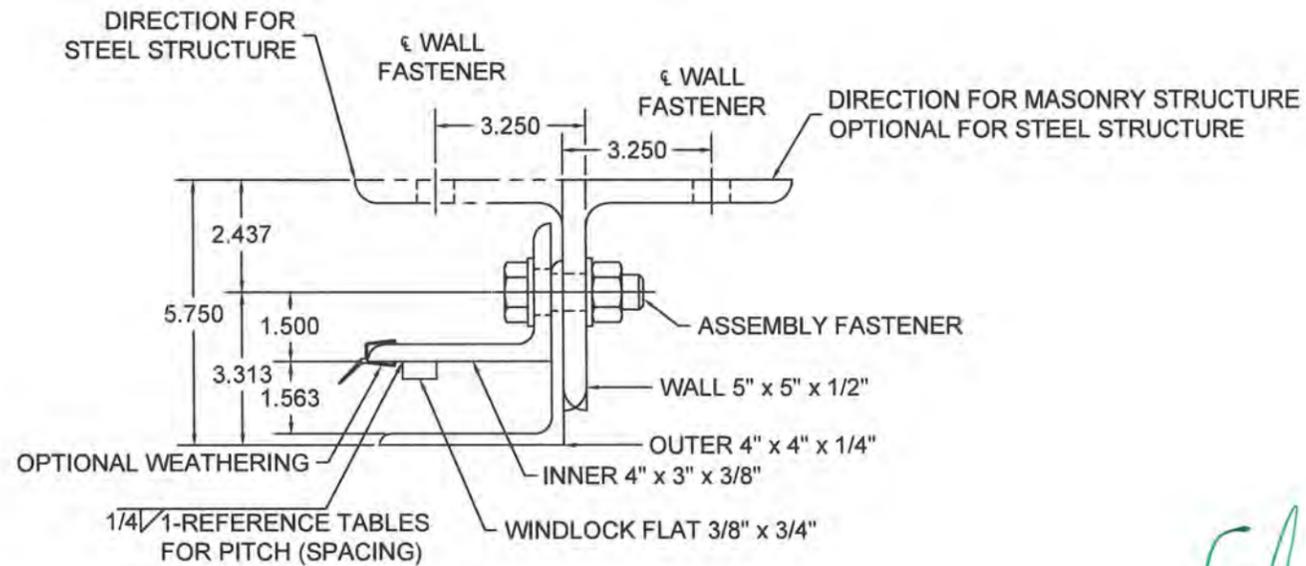
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A



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

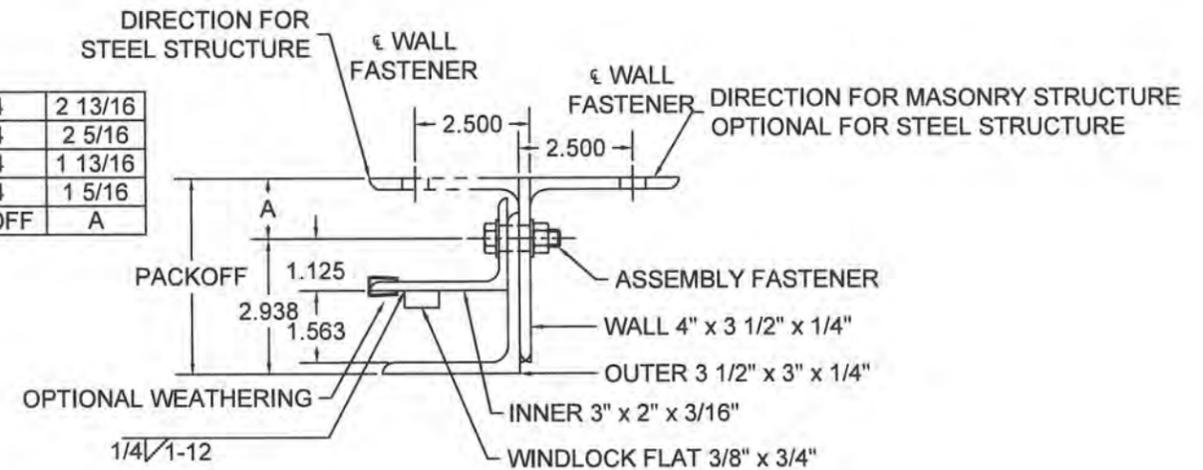


GUIDE ASSEMBLY TYPE 548  
SCALE: 3" = 1'-0"



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

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



GUIDE ASSEMBLY TYPE DC1  
SCALE: 3" = 1'-0"



**CORNELL**  
Innovative door solutions™

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MOUNTAINTOP, PA GOODYEAR, AZ  
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F: 800.526.0841  
E: ADS@CORNELLIRON.COM

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

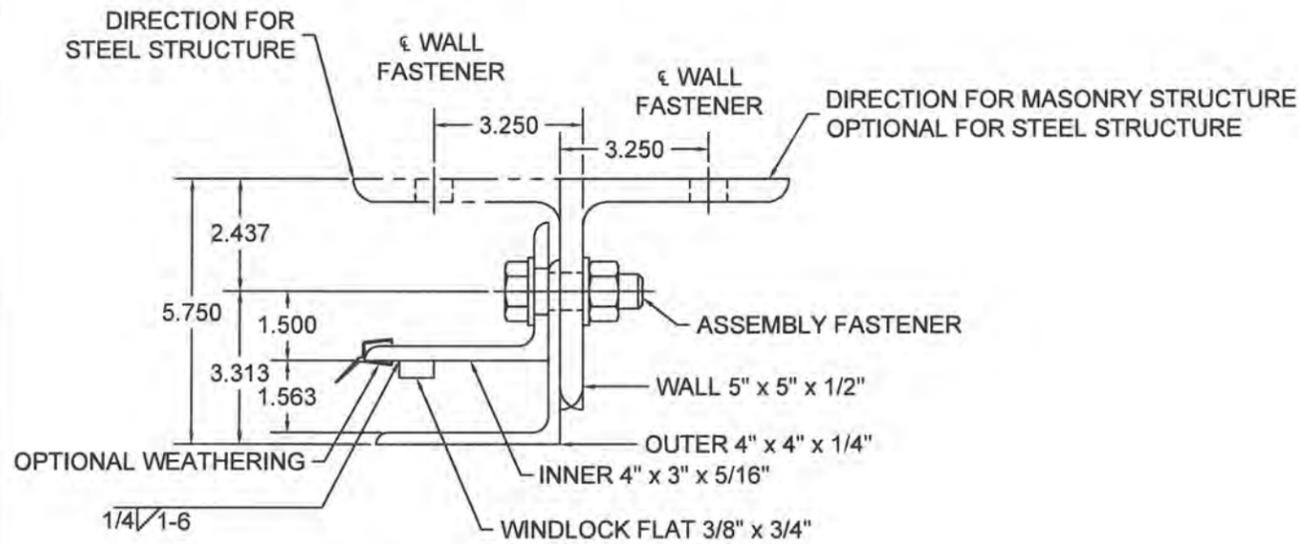
0.000 = +/- 0.031  
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ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
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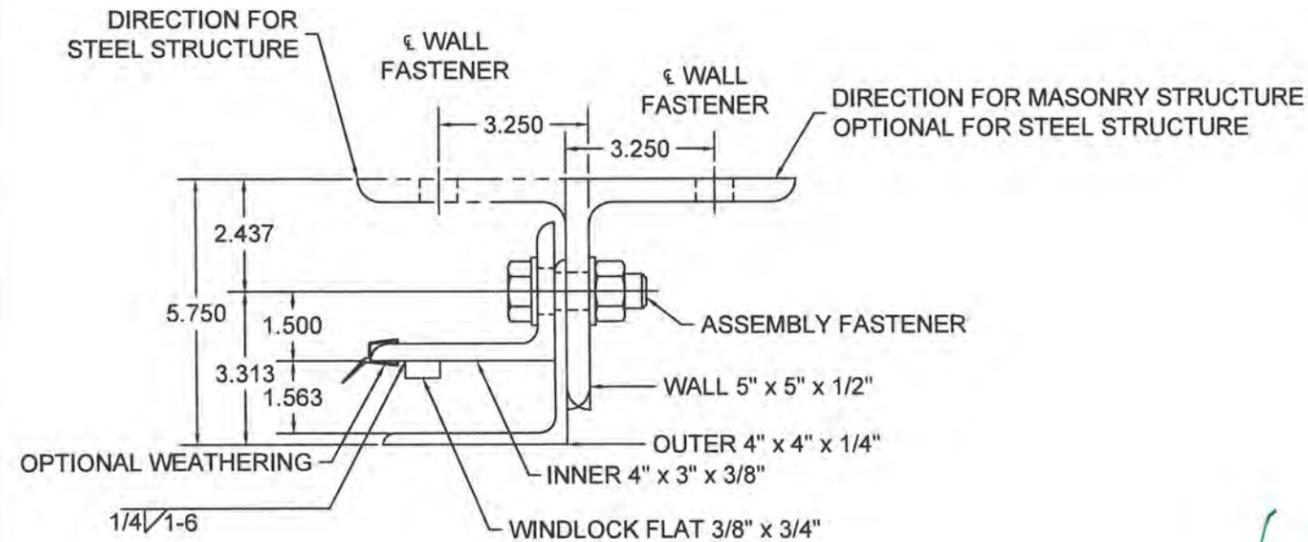
DRAWN BY: TJE  
SIZE: B  
SCALE: AS NOTED  
SHEET: 8/58

DWG NO: ES-16-65-CIW

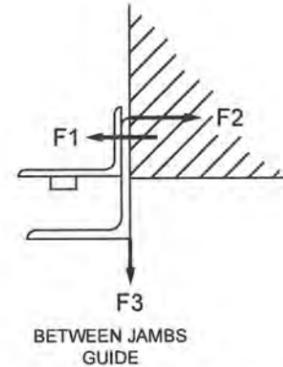
L/TR	REVISION	DATE	BY	E.C.O.
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GUIDE ASSEMBLY TYPE DC2  
SCALE: 3" = 1'-0"

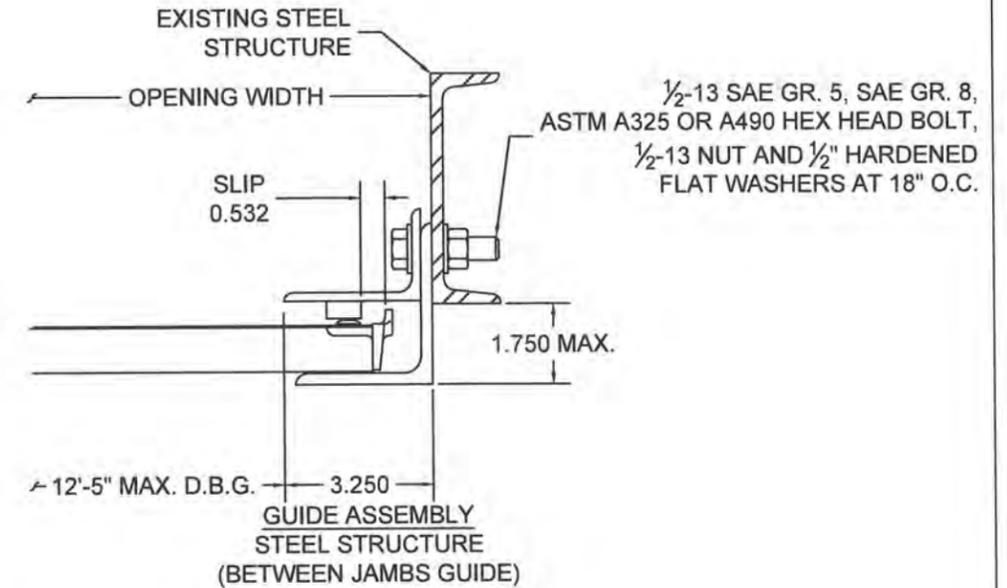


GUIDE ASSEMBLY TYPE DC3  
SCALE: 3" = 1'-0"



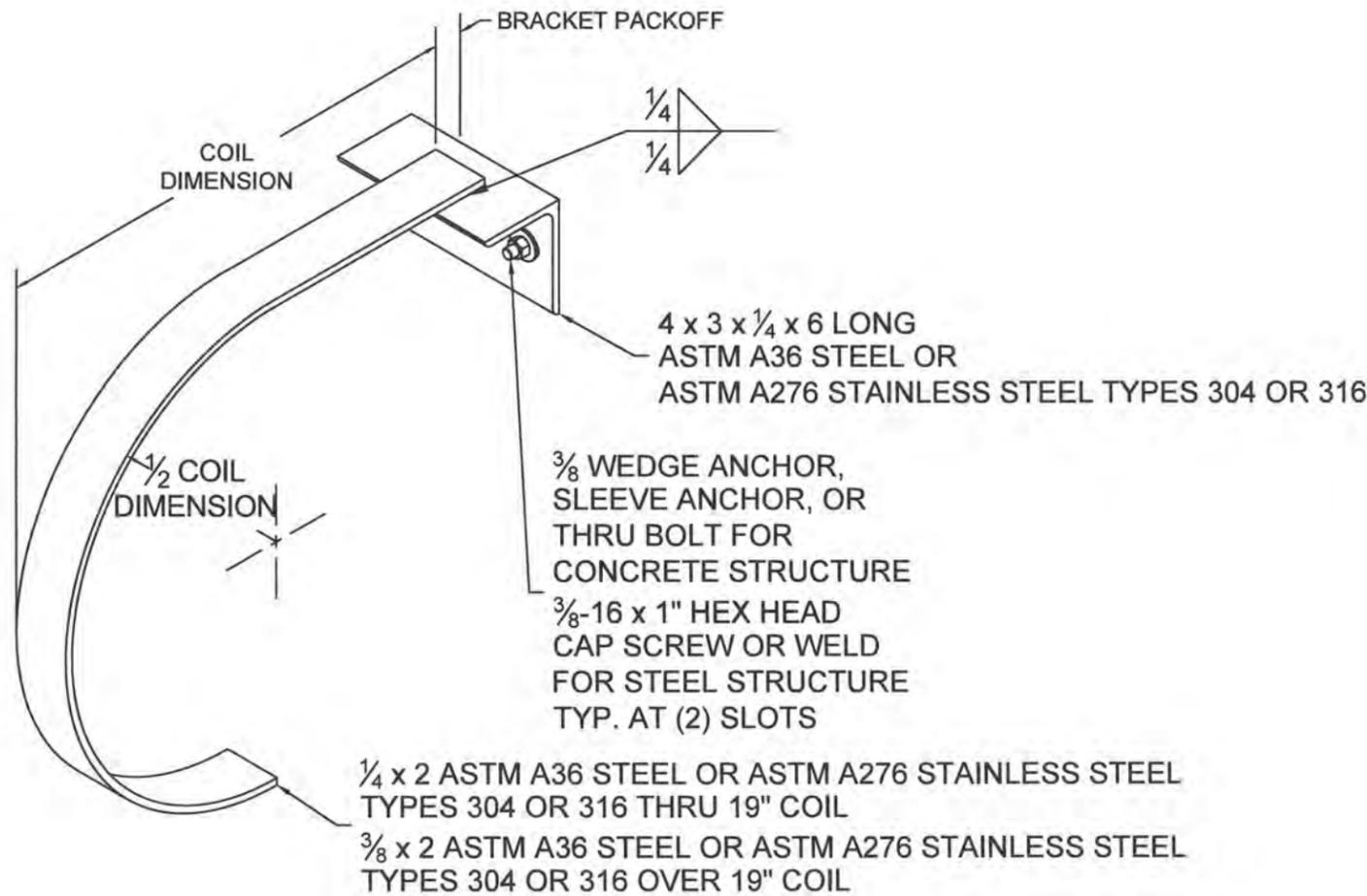
UNREDUCED WIND FORCES ON BUILDING STRUCTURE (LBS / FOOT OF HEIGHT)					
BETWEEN JAMBS GUIDE (12'-5" MAX. D.B.G.)					
POSITIVE			NEGATIVE		
F1	F2	F3	F1	F2	F3
609	238	413	3058	2687	413

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



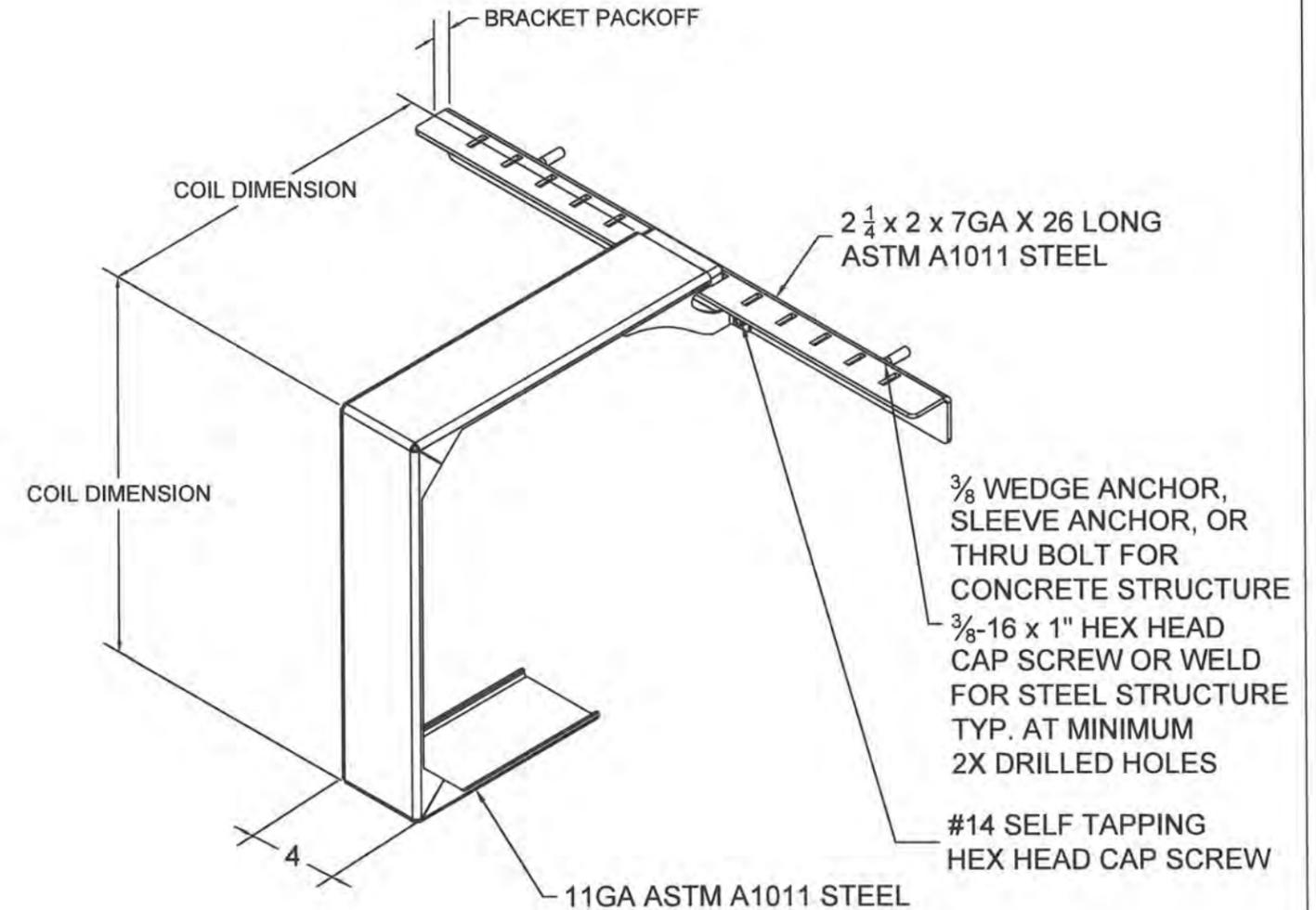
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
<b>TITLE:</b> WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	<b>DRAWN BY:</b> TJE	<b>SIZE:</b> B	<b>SCALE:</b> AS NOTED
<b>DWG NO:</b> ES-16-65-CIW		<b>SHEET:</b> 9/58	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	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



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
<b>TITLE:</b> WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	<b>DRAWN BY:</b> TJE	<b>SIZE:</b> B	<b>SCALE:</b> AS NOTED
<b>DWG NO:</b> ES-16-65-CIW		<b>SHEET:</b> 10/58	

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	36	2 5/8	3 15/16	5 3/4	36	3	4 1/2	5 3/4	30	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	32	2 5/8	3 15/16	5 3/4	33	3	4 1/2	5 3/4	25	2	3	5 3/4
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
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
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	17	2	3	5 3/4
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	15	2	3	5 3/4
11'-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	18	3	4 1/2	5 3/4	14	2	3	5 3/4
12'-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	17	3	4 1/2	5 3/4	13	2	3	5 3/4
13'-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	3	5 3/4
14'-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	11	2	3	5 3/4
15'-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
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	36	2 3/8	4	5 3/4	21	2 5/8	3 15/16	5 3/4	21	3	4 1/2	5 3/4	14	2	3	5 3/4
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	36	2 3/8	4	5 3/4	19	2 5/8	3 15/16	5 3/4	20	3	4 1/2	5 3/4	12	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	8	2	3	5 3/4
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	N/A				10	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	6	2	3	5 3/4
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
21'-5"	1 1/2	0.719	CP0629	344	11	3/8	13	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	4	2	3	5 3/4
22'-5"	1 1/2	0.719	CP0629	344	11	3/8	12	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
23'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	17	4 1/2	6 3/4	6 13/16	13	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
24'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
25'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
26'-5"	2	1.156	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
27'-5"	2	1.156	CP0630	445	9	1/2	17	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
28'-5"	2	1.156	CP0630	445	9	1/2	16	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
29'-5"	2	1.156	CP0630	445	9	1/2	15	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
30'-5"	2	1.156	CP0630 & CP0647	445	8	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
31'-5"	2	1.156	CP0630 & CP0647	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
32'-5"	2	1.156	CP0630 & CP0647	446	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
33'-5"	2	1.156	CP0630 & CP0647	446	8	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
34'-5"	2	1.156	CP0630 & CP0647	446	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
35'-5"	2	1.156	CP0630 & CP0647	446	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
36'-5"	2	1.156	CP0630 & CP0647	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
37'-5"	2	1.156	CP0630 & CP0647	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
38'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
39'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	DRAWN BY: TJE SIZE: B SCALE: AS NOTED SHEET: 11/58
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DWG NO: ES-16-65-CIW

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
5'-5"	9	3/8	1 5/8	5 3/4	15	3/8	2 5/8	5 3/4	36	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	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	55	0	55	
6'-5"	18	3/8	2 1/2	5 3/4	12	3/8	2 5/8	5 3/4	32	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	19	3/8	2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	65	0	65	
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	
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	
9'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	22	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	
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	
11'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	5 3/4	18	3/8	5 3/4	7 1/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	115	0	115	
12'-5"	9	3/8	2 1/2	5 3/4	8	1/2	3 1/2	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	125	0	125	
13'-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	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	135	0	135	
14'-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	22 3/4	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	145	0	145	
15'-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	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	12 5/8	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	155	0	155	
16'-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	105	165	89	165	
17'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	19	3/8	5 3/4	12 5/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	16 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	26	3/16	255	175	241	175	
18'-5"	8	3/8	2 1/2	5 3/4	12	3/4	5 1/4	5 3/4	13	3/8	5 3/4	36	1/2	3 5/8	6	5 3/4	28 1/2	3/8	2 7/8	4 1/2	5 3/4	19	1/2	3 3/4	6	5 3/4	27	7/16 x 5/8	27	17	3/16	395	185	382	185	
19'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	1/2	3 5/8	8	5 3/4	22 3/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	20	7/16 x 5/8	20	13	3/16	527	195	515	195	
20'-5"	10	3/4	4 3/8	5 3/4					8	3/8	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	16	7/16 x 5/8	16	10	3/16	653	205	642	205	
21'-5"	8	3/4	4 3/8	5 3/4					7	3/8	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					14	7/16 x 5/8	14	9	3/16	775	215	764	215		
22'-5"									6	3/8	5 3/4															12	7/16 x 5/8	12	8	3/16	893	225	883	225		
23'-5"	10	3/4	4 3/8	6 13/16	8	3/4	5 1/4	6 13/16	17	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	22 3/4	3/4	4 3/8	7	6 13/16	35	9/16 x 3/4	35	20	1/4	693	234	686	235	
24'-5"	9	3/4	4 3/8	6 13/16					15	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	28 1/2	3/4	4 3/8	8	6 13/16	31	9/16 x 3/4	31	17	1/4	786	244	780	245	
25'-5"	8	3/4	4 3/8	6 13/16					13	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16					28	9/16 x 3/4	28	15	1/4	879	254	872	255		
26'-5"									12	1/2	6 13/16															24	9/16 x 3/4	24	13	1/4	1004	265	997	265		
27'-5"									11	1/2	6 13/16															22	9/16 x 3/4	22	12	1/4	1095	275	1089	275		
28'-5"									10	1/2	6 13/16															20	9/16 x 3/4	20	11	1/4	1186	285	1180	285		
29'-5"									9	1/2	6 13/16															19	9/16 x 3/4	19	10	1/4	1277	295	1271	295		
30'-5"									9	1/2	6 13/16															18	9/16 x 3/4	18	10	1/4	1368	305	1361	306		
31'-5"									8	1/2	6 13/16															17	9/16 x 3/4	17	9	1/4	1458	315	1452	316		
32'-5"									11	5/8	6 7/8															24	11/16 x 7/8	24	13	5/16	1548	325	1542	326		
33'-5"									10	5/8	6 7/8															22	11/16 x 7/8	22	12	5/16	1639	335	1633	336		
34'-5"									9	5/8	6 7/8															21	11/16 x 7/8	21	12	5/16	1730	346	1724	346		
35'-5"									9	5/8	6 7/8															20	11/16 x 7/8	20	11	5/16	1821	356	1815	357		
36'-5"									8	5/8	6 7/8															19	11/16 x 7/8	19	10	5/16	1913	366	1907	367		
37'-5"									8	5/8	6 7/8															18	11/16 x 7/8	18	10	5/16	2006	376	1999	377		
38'-5"									8	5/8	6 7/8															17	11/16 x 7/8	17	9	5/16	2098	387	2092	387		
39'-5"									12	3/4	7 1/2															36	11/16 x 7/8	36	24	3/8	1807	395	1801	395		
40'-5"									11	3/4	7 1/2															36	11/16 x 7/8	36	23	3/8	1887	405	1881	406		



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>12/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	25	2 5/8	3 15/16	5 3/4	26	3	4 1/2	5 3/4	20	2	3	5 3/4
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
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	14	2	3	5 3/4
8'-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	17	3	4 1/2	5 3/4	13	2	3	5 3/4
9'-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	15	3	4 1/2	5 3/4	11	2	3	5 3/4
10'-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
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
14'-5"	1 5/16	0.532	CP0629	344	12	3/8	18	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	12	2	3	5 3/4
15'-5"	1 7/16	0.657	CP0629	344	12	3/8	18	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	9	2	3	5 3/4
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	17	N/A				10	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	6	2	3	5 3/4
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	11	3/8	11	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
19'-5"	1 7/8	1.094	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
20'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
21'-5"	2	1.156	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
22'-5"	2	1.156	CP0630	445	9	1/2	16	22	3 5/8	8	6 13/16	10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
23'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
24'-5"	2	1.156	CP0630 & CP0647	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
25'-5"	2	1.156	CP0630 & CP0647	446	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
26'-5"	2	1.156	CP0630 & CP0647	446	8	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	CP0630 & CP0647	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
28'-5"	2	1.156	CP0630 & CP0647	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
29'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
30'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
34'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
35'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
38'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
	SIZE: B SCALE: AS NOTED SHEET: 13/58	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
5'-5"	14	3/8	2 1/2	5 3/4	10	3/8	2 5/8	5 3/4	25	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	83	0	82	
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	
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	
8'-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	128	0	127	
9'-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	28 1/2	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	143	0	142	
10'-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	28 1/2	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	158	0	157	
11'-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	16 1/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	173	0	172	
12'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	188	0	187	
14'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	20	3/8	5 3/4	14 1/4	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	19	3/8	2	5	5 3/4	36	7/16 x 5/8	36	26	3/16	250	218	225	217	
15'-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	29	7/16 x 5/8	29	19	3/16	355	233	334	232	
16'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	10	3/8	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	36	3/4	4 3/8	7	5 3/4	21	7/16 x 5/8	21	13	3/16	502	248	484	247	
17'-5"	9	3/4	4 3/8	5 3/4					8	3/8	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	15	7/16 x 5/8	15	10	3/16	689	263	672	262	
18'-5"									6	3/8	5 3/4						36	3/4	5 3/4	8 3/4	5 3/4					12	7/16 x 5/8	12	8	3/16	866	278	850	278		
19'-5"	9	3/4	4 3/8	6 13/16					15	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	28 1/2	3/4	4 3/8	8	6 13/16	33	9/16 x 3/4	33	18	1/4	743	291	732	292	
20'-5"	8	3/4	4 3/8	6 13/16					14	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16					30	9/16 x 3/4	30	17	1/4	815	306	805	307		
21'-5"									12	1/2	6 13/16															25	9/16 x 3/4	25	14	1/4	987	321	977	322		
22'-5"									10	1/2	6 13/16															22	9/16 x 3/4	22	12	1/4	1120	337	1111	337		
23'-5"									9	1/2	6 13/16															19	9/16 x 3/4	19	11	1/4	1252	352	1243	352		
24'-5"									8	1/2	6 13/16															18	9/16 x 3/4	18	10	1/4	1382	367	1373	368		
25'-5"									11	5/8	6 7/8															24	11/16 x 7/8	24	13	5/16	1511	382	1502	383		
26'-5"									10	5/8	6 7/8															22	11/16 x 7/8	22	12	5/16	1639	397	1630	398		
27'-5"									9	5/8	6 7/8															21	11/16 x 7/8	21	11	5/16	1767	412	1758	413		
28'-5"									8	5/8	6 7/8															19	11/16 x 7/8	19	10	5/16	1895	428	1886	428		
29'-5"									8	5/8	6 7/8															18	11/16 x 7/8	18	10	5/16	2023	443	2014	444		
30'-5"									7	5/8	6 7/8															17	11/16 x 7/8	17	9	5/16	2152	458	2143	459		
31'-5"									11	3/4	7 1/2															36	13/16 x 1	36	23	3/8	1870	472	1861	472		
32'-5"									11	3/4	7 1/2															36	13/16 x 1	36	22	3/8	1980	487	1971	487		
33'-5"									10	3/4	7 1/2															36	13/16 x 1	36	21	3/8	2091	502	2082	503		
34'-5"									10	3/4	7 1/2															36	13/16 x 1	36	20	3/8	2202	517	2193	518		
35'-5"									9	3/4	7 1/2															35	13/16 x 1	35	19	3/8	2314	533	2305	533		
36'-5"									9	3/4	7 1/2															33	13/16 x 1	33	18	3/8	2427	548	2418	548		
37'-5"									8	3/4	7 1/2															32	13/16 x 1	32	17	3/8	2541	563	2532	564		
38'-5"									8	3/4	7 1/2															31	13/16 x 1	31	16	3/8	2655	579	2646	579		



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>14/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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
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	12	2	3	5 3/4
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	11	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	7	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	7	2	3	5 3/4
11'-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	7	2	3	5 3/4
15'-5"	1 5/16	0.532	CP0629	344	10	3/8	11	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	4	2 1/2	3 3/4	5 3/4
16'-5"	1 1/2	0.656	CP0630	445	10	1/2	18	19	3 5/8	6	6 13/16	12	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
17'-5"	1 1/2	0.656	CP0630	445	9	1/2	16	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
18'-5"	1 5/8	0.781	CP0630	445	9	1/2	15	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
19'-5"	1 3/4	0.906	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
20'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
21'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	18	N/A				11	4 1/2	6 3/4	6 7/8	N/A				10	5	7 1/2	6 7/8
22'-5"	2	1.156	CP0630 & CP0647	446	8	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	CP0630 & CP0647	546	7	5/8	16	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	CP0630 & CP0647	546	7	5/8	15	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	CP0630 & CP0647	546	7	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
28'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
29'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	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	CP0630 & CP0647	648	6	3/4	16	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	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-65-CIW	SIZE: B SCALE: AS NOTED SHEET: 15/58

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 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 (-)
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	12 5/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	16 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	110	0	109
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
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
8'-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	19	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	170	0	169
9'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	190	0	189
10'-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	19	1/2	3 5/8	8	5 3/4	16 1/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	210	0	209
11'-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	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	36	7/16 x 5/8	36	36	3/16	0	230	0	229
15'-5"	N/A				N/A				6	3/8	5 3/4	N/A				36	3/4	5 3/4	8 3/4	5 3/4	N/A				12	7/16 x 5/8	12	7	3/16	905	311	879	310		
16'-5"	N/A				N/A				12	1/2	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				25	9/16 x 3/4	25	14	1/4	976	330	955	330	
17'-5"	N/A				N/A				10	1/2	6 13/16	N/A				N/A				N/A				20	9/16 x 3/4	20	11	1/4	1208	350	1188	351			
18'-5"	N/A				N/A				9	1/2	6 13/16	N/A				N/A				N/A				19	9/16 x 3/4	19	10	1/4	1263	370	1245	370			
19'-5"	N/A				N/A				9	1/2	6 13/16	N/A				N/A				N/A				18	9/16 x 3/4	18	10	1/4	1324	389	1309	390			
20'-5"	N/A				N/A				9	1/2	6 13/16	N/A				N/A				N/A				19	9/16 x 3/4	19	10	1/4	1282	409	1270	409			
21'-5"	N/A				N/A				11	5/8	6 7/8	N/A				N/A				N/A				25	11/16 x 7/8	25	14	5/16	1451	429	1440	430			
22'-5"	N/A				N/A				10	5/8	6 7/8	N/A				N/A				N/A				23	11/16 x 7/8	23	12	5/16	1618	449	1606	450			
23'-5"	N/A				N/A				9	5/8	6 7/8	N/A				N/A				N/A				21	11/16 x 7/8	21	11	5/16	1783	469	1771	470			
24'-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	1947	489	1935	490			
25'-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	2111	510	2099	511			
26'-5"	N/A				N/A				11	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	24	3/8	1851	528	1840	529			
27'-5"	N/A				N/A				10	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	22	3/8	1991	548	1980	549			
28'-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	2131	569	2120	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	19	3/8	2272	589	2261	589			
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	2413	609	2402	610			
31'-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	2555	630	2544	630			
32'-5"	N/A				N/A				8	3/4	7 1/2	N/A				N/A				N/A				30	13/16 x 1	30	16	3/8	2698	650	2687	650			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-65-CIW
		SIZE: B SCALE: AS NOTED	SHEET: 16/58	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0220/0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	12	2	3	5 3/4
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	10	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24					9	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	7	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24					8	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	7	2	3	5 3/4
16'-5"	1 5/16	0.469	CP0630 & CP0647	446	7	5/8	18					9	4 1/2	6 3/4	6 7/8				8	5	7 1/2	6 7/8	
17'-5"	1 7/16	0.594	CP0630 & CP0647	446	7	5/8	18					9	4 1/2	6 3/4	6 7/8				8	5	7 1/2	6 7/8	
18'-5"	1 1/2	0.656	CP0630 & CP0647	546	7	5/8	16					8	4 1/2	6 3/4	6 7/8				7	5	7 1/2	6 7/8	
19'-5"	1 5/8	0.781	CP0630 & CP0647	546	7	5/8	16					8	4 1/2	6 3/4	6 7/8				7	5	7 1/2	6 7/8	
20'-5"	1 5/8	0.781	CP0630 & CP0647	546	7	5/8	14					7	4 1/2	6 3/4	6 7/8								
21'-5"	1 3/4	0.906	CP0630 & CP0647	548	6	3/4	18					10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2				
22'-5"	1 7/8	1.031	CP0630 & CP0647	548	6	3/4	18					9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2				
23'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	18					9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2				
24'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	18					9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2				
25'-5"	2 3/8	1.531	CP0630 & CP0647	548	6	3/4	18					9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2				
26'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17					9	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2				
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16					8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2				

CP0001/CP0651 - 0.0220/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
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
7'-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	188	0	186
8'-5"	11	3/4	4 3/8	5 3/4	9	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	213	0	211
9'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	238	0	236
16'-5"		N/A				N/A			9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1786	414	1756	415
17'-5"		N/A				N/A			9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1785	438	1759	439
18'-5"		N/A				N/A			8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1929	463	1905	464
19'-5"		N/A				N/A			8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1959	488	1938	489
20'-5"		N/A				N/A			7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2197	513	2176	515
21'-5"		N/A				N/A			10	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2235	539	2209	539
22'-5"		N/A				N/A			9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2275	563	2252	564
23'-5"		N/A				N/A			9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2322	588	2301	588
24'-5"		N/A				N/A			9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2249	611	2232	612
25'-5"		N/A				N/A			9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2314	636	2299	637
26'-5"		N/A				N/A			9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2380	661	2366	661
27'-5"		N/A				N/A			8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2550	686	2537	687



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

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F: 800.526.0841  
E: ADS@CORNELLIRON.COM

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

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

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

DRAWN BY: **TJE**

SIZE: **B**

SCALE: **AS NOTED**

SHEET: **17/58**

DWG NO: **ES-16-65-CIW**

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	36	2 5/8	3 15/16	5 3/4	36	3	4 1/2	5 3/4	30	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	32	2 5/8	3 15/16	5 3/4	33	3	4 1/2	5 3/4	25	2	3	5 3/4
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
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
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	17	2	3	5 3/4
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	15	2	3	5 3/4
11'-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	18	3	4 1/2	5 3/4	14	2	3	5 3/4
12'-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	17	3	4 1/2	5 3/4	13	2	3	5 3/4
13'-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	3	5 3/4
14'-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	11	2	3	5 3/4
15'-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
16'-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	10	2	3	5 3/4
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	36	2 3/8	4	5 3/4	16	2 5/8	3 15/16	5 3/4	17	3	4 1/2	5 3/4	10	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	16	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	7	2	3	5 3/4
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	17		N/A			9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	6	2	3	5 3/4
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	14		N/A			8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
21'-5"	1 1/2	0.719	CP0629	344	11	3/8	13		N/A			7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
22'-5"	1 1/2	0.719	CP0629	344	10	3/8	11		N/A			6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	4	2 1/2	3 3/4	5 3/4
23'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	13	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
24'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
25'-5"	2	1.219	CP0629	445	10	1/2	18	28	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
26'-5"	2	1.156	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
27'-5"	2	1.156	CP0630	445	9	1/2	17	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
28'-5"	2	1.156	CP0630	445	9	1/2	16		N/A			10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
29'-5"	2	1.156	CP0630	445	9	1/2	15		N/A			9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
30'-5"	2	1.156	CP0630	445	8	1/2	14		N/A			8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
31'-5"	2	1.156	CP0630 & CP0647	445	8	1/2	13		N/A			8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
32'-5"	2	1.156	CP0630 & CP0647	446	8	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
33'-5"	2	1.156	CP0630 & CP0647	446	8	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
34'-5"	2	1.156	CP0630 & CP0647	446	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
35'-5"	2	1.156	CP0630 & CP0647	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
36'-5"	2	1.156	CP0630 & CP0647	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
37'-5"	2	1.156	CP0630 & CP0647	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
38'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15		N/A			8	4 1/2	6 3/4	6 7/8			N/A					N/A
39'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2			N/A	
40'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2			N/A	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>18/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)		
	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
5'-5"	9	3/8	1 5/8	5 3/4	15	3/8	2 5/8	5 3/4	36	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	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	55	0	55
6'-5"	18	3/8	2 1/2	5 3/4	12	3/8	2 5/8	5 3/4	32	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	19	3/8	2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	65	0	65
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
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
9'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	22	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
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
11'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	5 3/4	18	3/8	5 3/4	7 1/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	115	0	115
12'-5"	9	3/8	2 1/2	5 3/4	8	1/2	3 1/2	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	125	0	125
13'-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	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	135	0	135
14'-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	22 3/4	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	145	0	145
15'-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	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	12 5/8	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	155	0	155
16'-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	22 3/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	28 1/2	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	165	0	165
17'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	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	34	7/16 x 5/8	34	22	3/16	312	175	299	175
18'-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	22 3/4	1/2	3 5/8	6	5 3/4	16 1/4	1/2	2 3/4	4 1/2	5 3/4	36	1/2	3 3/4	8	5 3/4	24	7/16 x 5/8	24	15	3/16	446	185	434	185
19'-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	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	19	7/16 x 5/8	19	12	3/16	573	195	562	195
20'-5"	9	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	8	3/8	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	15	7/16 x 5/8	15	10	3/16	695	205	684	205
21'-5"	8	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	7	3/8	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	N/A	N/A	N/A	13	7/16 x 5/8	13	8	3/16	813	215	803	215	
22'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	3/8	5 3/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	7/16 x 5/8	11	7	3/16	928	225	919	225
23'-5"	10	3/4	4 3/8	6 13/16	N/A	N/A	N/A	N/A	16	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	36	3/4	4 3/8	8	6 13/16	34	9/16 x 3/4	34	19	1/4	725	234	718	235
24'-5"	9	3/4	4 3/8	6 13/16	N/A	N/A	N/A	N/A	14	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	22 3/4	3/4	4 3/8	8	6 13/16	30	9/16 x 3/4	30	16	1/4	816	244	810	245
25'-5"	8	3/4	4 3/8	6 13/16	N/A	N/A	N/A	N/A	13	1/2	6 13/16	28 1/2	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A	N/A	N/A	N/A	27	9/16 x 3/4	27	15	1/4	906	254	900	255	
26'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	1/2	6 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	9/16 x 3/4	24	13	1/4	1029	265	1022	265
27'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	1/2	6 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22	9/16 x 3/4	22	12	1/4	1119	275	1112	275
28'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	1/2	6 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	9/16 x 3/4	20	11	1/4	1208	285	1202	285
29'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	1/2	6 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19	9/16 x 3/4	19	10	1/4	1297	295	1291	295
30'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	9/16 x 3/4	17	9	1/4	1387	305	1380	306
31'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	6 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	9/16 x 3/4	16	9	1/4	1476	315	1469	316
32'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	11/16 x 7/8	24	13	5/16	1565	325	1559	326
33'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22	11/16 x 7/8	22	12	5/16	1655	335	1648	336
34'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	11/16 x 7/8	21	11	5/16	1745	346	1738	346
35'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	11/16 x 7/8	20	11	5/16	1835	356	1829	356
36'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19	11/16 x 7/8	19	10	5/16	1926	366	1920	367
37'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18	11/16 x 7/8	18	10	5/16	2018	376	2012	377
38'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	11/16 x 7/8	17	9	5/16	2110	386	2104	387
39'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	3/4	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	36	13/16 x 1	36	24	3/8	1819	395	1813	395
40'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	3/4	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	36	13/16 x 1	36	23	3/8	1898	405	1892	406



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>19/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	25	2 5/8	3 15/16	5 3/4	26	3	4 1/2	5 3/4	20	2	3	5 3/4
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
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	14	2	3	5 3/4
8'-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	17	3	4 1/2	5 3/4	13	2	3	5 3/4
9'-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	15	3	4 1/2	5 3/4	11	2	3	5 3/4
10'-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
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
13'-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	8	2	3	5 3/4
14'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	12	2	3	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	8	2	3	5 3/4
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	N/A	N/A	N/A	N/A	9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	6	2	3	5 3/4
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	N/A	N/A	N/A	N/A	7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	4	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	10	3/8	11	N/A	N/A	N/A	N/A	6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	4	2 1/2	3 3/4	5 3/4
19'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
20'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
21'-5"	2	1.156	CP0630	445	10	1/2	17	36	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
22'-5"	2	1.156	CP0630	445	9	1/2	15	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
23'-5"	2	1.156	CP0630	445	9	1/2	14	N/A	N/A	N/A	N/A	9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
24'-5"	2	1.156	CP0630	445	8	1/2	13	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
25'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	18	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	9	5	7 1/2	6 7/8
26'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	18	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	9	5	7 1/2	6 7/8
27'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	17	N/A	N/A	N/A	N/A	9	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	8	5	7 1/2	6 7/8
28'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	16	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	7	5	7 1/2	6 7/8
29'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
31'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
32'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	10	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
33'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
34'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
35'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
36'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
37'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
38'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
39'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	
40'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
5'-5"	14	3/8	2 1/2	5 3/4	10	3/8	2 5/8	5 3/4	25	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	83	0	82	
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	
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	
8'-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	128	0	127	
9'-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	28 1/2	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	143	0	142	
10'-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	28 1/2	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	158	0	157	
11'-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	16 1/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	173	0	172	
12'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	188	0	187	
13'-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	28 1/2	1/2	3 5/8	8	5 3/4	22 3/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	203	0	202	
14'-5"	11	3/8	2 1/2	5 3/4	9	1/2	3 1/2	5 3/4	19	3/8	5 3/4	14 1/4	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	19	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	173	218	151	217	
15'-5"	8	3/8	2 1/2	5 3/4	12	3/4	5 1/4	5 3/4	13	3/8	5 3/4	36	1/2	3 5/8	6	5 3/4	28 1/2	3/8	2 7/8	4 1/2	5 3/4	19	1/2	3 3/4	6	5 3/4	28	7/16 x 5/8	28	18	3/16	377	233	358	232	
16'-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	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	19	7/16 x 5/8	19	12	3/16	567	248	550	247	
17'-5"	8	3/4	4 3/8	5 3/4					7	3/8	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	14	7/16 x 5/8	14	9	3/16	746	263	730	262	
18'-5"									6	3/8	5 3/4																11	7/16 x 5/8	11	7	3/16	918	278	903	278	
19'-5"	9	3/4	4 3/8	6 13/16					16	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	36	3/4	4 3/8	8	6 13/16	34	9/16 x 3/4	34	19	1/4	723	291	713	292	
20'-5"	8	3/4	4 3/8	6 13/16					13	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16					29	9/16 x 3/4	29	16	1/4	857	306	848	307		
21'-5"									11	1/2	6 13/16																24	9/16 x 3/4	24	13	1/4	1025	321	1016	322	
22'-5"									10	1/2	6 13/16																21	9/16 x 3/4	21	11	1/4	1155	336	1146	337	
23'-5"									9	1/2	6 13/16																19	9/16 x 3/4	19	10	1/4	1284	352	1275	352	
24'-5"									8	1/2	6 13/16																17	9/16 x 3/4	17	9	1/4	1412	367	1403	368	
25'-5"									10	5/8	6 7/8																24	11/16 x 7/8	24	13	5/16	1538	382	1529	383	
26'-5"									10	5/8	6 7/8																22	11/16 x 7/8	22	12	5/16	1664	397	1655	398	
27'-5"									9	5/8	6 7/8																21	11/16 x 7/8	21	11	5/16	1791	412	1782	413	
28'-5"									8	5/8	6 7/8																19	11/16 x 7/8	19	10	5/16	1917	427	1908	428	
29'-5"									8	5/8	6 7/8																18	11/16 x 7/8	18	10	5/16	2044	443	2035	444	
30'-5"									12	3/4	7 1/2																36	13/16 x 1	36	25	3/8	1779	456	1770	457	
31'-5"									11	3/4	7 1/2																36	13/16 x 1	36	23	3/8	1887	472	1879	472	
32'-5"									10	3/4	7 1/2																36	13/16 x 1	36	22	3/8	1997	487	1988	487	
33'-5"									10	3/4	7 1/2																36	13/16 x 1	36	21	3/8	2106	502	2098	502	
34'-5"									9	3/4	7 1/2																36	13/16 x 1	36	20	3/8	2217	517	2208	518	
35'-5"									9	3/4	7 1/2																35	13/16 x 1	35	19	3/8	2328	533	2319	533	
36'-5"									9	3/4	7 1/2																33	13/16 x 1	33	18	3/8	2440	548	2432	548	
37'-5"									8	3/4	7 1/2																32	13/16 x 1	32	17	3/8	2553	563	2544	564	
38'-5"									8	3/4	7 1/2																30	13/16 x 1	30	16	3/8	2667	578	2658	579	
39'-5"									8	3/4	7 1/2																29	13/16 x 1	29	16	3/8	2782	594	2773	594	
40'-5"									7	3/4	7 1/2																28	13/16 x 1	28	15	3/8	2897	609	2889	610	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-65-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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
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	12	2	3	5 3/4
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	11	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	7	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	7	2	3	5 3/4
11'-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	7	2	3	5 3/4
13'-5"	1 3/8	0.594	CP0629	344	12	3/8	18	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	11	2 1/2	3 3/4	5 3/4
14'-5"	1 1/2	0.719	CP0629	344	12	3/8	16	N/A				10	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	6	2	3	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	12	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	4	2	3	5 3/4
16'-5"	1 3/4	0.969	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
17'-5"	1 7/8	1.094	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
18'-5"	2	1.156	CP0630	445	10	1/2	17	36	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
19'-5"	2	1.156	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
20'-5"	2	1.156	CP0630	445	9	1/2	13	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
21'-5"	2	1.156	CP0630 & CP0647	446	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
22'-5"	2	1.156	CP0630 & CP0647	446	8	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	CP0630 & CP0647	546	7	5/8	16	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	CP0630 & CP0647	546	7	5/8	15	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	CP0630 & CP0647	546	7	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
28'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
29'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	N/A				8	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	CP0630 & CP0647	648	6	3/4	16	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	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)	
	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
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	12 5/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	16 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	110	0	109
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
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
8'-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	19	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	170	0	169
9'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	190	0	189
10'-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	19	1/2	3 5/8	8	5 3/4	16 1/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	210	0	209
11'-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	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	36	7/16 x 5/8	36	36	3/16	0	230	0	229
13'-5"	8	3/8	2 1/2	5 3/4	12	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	22 3/4	1/2	3 3/4	6	5 3/4	28	7/16 x 5/8	28	18	3/16	362	270	333	269
14'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	10	3/8	5 3/4	28 1/2	1/2	3 5/8	8	5 3/4	22 3/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	21	7/16 x 5/8	21	13	3/16	500	290	476	289
15'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	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	14	7/16 x 5/8	14	9	3/16	739	310	718	310
16'-5"	9	3/4	4 3/8	6 13/16	N/A				15	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	28 1/2	3/4	4 3/8	8	6 13/16	33	9/16 x 3/4	33	18	1/4	739	329	724	329
17'-5"	8	3/4	4 3/8	6 13/16	N/A				13	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A				29	9/16 x 3/4	29	16	1/4	846	348	832	349	
18'-5"	N/A				N/A				11	1/2	6 13/16	N/A				N/A				N/A				25	9/16 x 3/4	25	14	1/4	985	368	973	369			
19'-5"	N/A				N/A				10	1/2	6 13/16	N/A				N/A				N/A				21	9/16 x 3/4	21	11	1/4	1157	388	1145	389			
20'-5"	N/A				N/A				9	1/2	6 13/16	N/A				N/A				N/A				18	9/16 x 3/4	18	10	1/4	1325	408	1313	409			
21'-5"	N/A				N/A				11	5/8	6 7/8	N/A				N/A				N/A				25	11/16 x 7/8	25	14	5/16	1490	429	1478	430			
22'-5"	N/A				N/A				10	5/8	6 7/8	N/A				N/A				N/A				22	11/16 x 7/8	22	12	5/16	1653	449	1641	450			
23'-5"	N/A				N/A				9	5/8	6 7/8	N/A				N/A				N/A				20	11/16 x 7/8	20	11	5/16	1815	469	1804	470			
24'-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	1977	489	1965	490			
25'-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	2138	510	2127	511			
26'-5"	N/A				N/A				11	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	23	3/8	1876	528	1865	529			
27'-5"	N/A				N/A				10	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	22	3/8	2014	548	2003	549			
28'-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	2153	569	2142	569			
29'-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	2292	589	2281	589			
30'-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	2432	609	2421	610			
31'-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	2573	629	2562	630			
32'-5"	N/A				N/A				8	3/4	7 1/2	N/A				N/A				N/A				30	13/16 x 1	30	16	3/8	2715	650	2704	650			
33'-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	2858	670	2847	671			



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	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM			
<b>TITLE:</b> WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	<b>DRAWN BY:</b> TJE	<b>SIZE:</b> B	<b>SCALE:</b> AS NOTED	<b>SHEET:</b> 23/58
<b>DWG NO:</b> ES-16-65-CIW				

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	12	2	3	5 3/4
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	10	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
8'-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	10	3	4 1/2	5 3/4	7	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	7	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
13'-5"	1 5/16	0.532	CP0629	344	11	3/8	12	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
14'-5"	1 3/8	0.531	CP0630	445	9	1/2	17	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
15'-5"	1 1/2	0.656	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
16'-5"	1 5/8	0.781	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
17'-5"	1 7/8	1.031	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
18'-5"	2	1.156	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
19'-5"	2	1.156	CP0630 & CP0647	446	8	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	CP0630 & CP0647	546	7	5/8	16	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	CP0630 & CP0647	546	7	5/8	15	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 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			
23'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
25'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	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	CP0630 & CP0647	648	6	3/4	16	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	CP0630 & CP0647	648	6	3/4	15	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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L'TR	REVISION	DATE	BY	E.C.O.
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CP0001/CP0651 - 0.0236/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
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	
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	
7'-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	188	0	186	
8'-5"	11	3/4	4 3/8	5 3/4	9	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	213	0	211	
9'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	238	0	236	
10'-5"	9	3/4	4 3/8	5 3/4	N/A			8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	263	0	261		
13'-5"	8	3/4	4 3/8	5 3/4	N/A			7	3/8	5 3/4	13	7/16 x 5/8	13	9	3/16	781	338	748	337		
14'-5"	N/A				N/A				11	1/2	6 13/16	22	9/16 x 3/4	22	12	1/4	1100	362	1072	363	
15'-5"	N/A				N/A				10	1/2	6 13/16	20	9/16 x 3/4	20	11	1/4	1189	387	1165	388	
16'-5"	N/A				N/A				9	1/2	6 13/16	19	9/16 x 3/4	19	10	1/4	1283	412	1262	413	
17'-5"	N/A				N/A				9	1/2	6 13/16	19	9/16 x 3/4	19	11	1/4	1252	436	1236	437	
18'-5"	N/A				N/A				8	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1356	460	1341	461	
19'-5"	N/A				N/A				10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1558	485	1544	487	
20'-5"	N/A				N/A				9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1757	511	1743	512	
21'-5"	N/A				N/A				8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1954	536	1940	537	
22'-5"	N/A				N/A				12	3/4	7 1/2	36	13/16 x 1	36	25	3/8	1735	560	1722	560	
23'-5"	N/A				N/A				11	3/4	7 1/2	36	13/16 x 1	36	23	3/8	1903	585	1889	585	
24'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	21	3/8	2070	610	2056	610	
25'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2237	635	2224	636	
26'-5"	N/A				N/A				8	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2405	661	2391	661	
27'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2573	686	2560	686	
28'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2743	711	2729	712	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	10	2	3	5 3/4
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	8	2	3	5 3/4
7'-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	7	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24		N/A			8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24		N/A			7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
14'-5"	1 3/8	0.531	CP0630 & CP0647	445	8	1/2	13		N/A			8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
15'-5"	1 7/16	0.594	CP0630 & CP0647	446	8	5/8	18		N/A			10	4 1/2	6 3/4	6 7/8					9	5	7 1/2	6 7/8
16'-5"	1 1/2	0.656	CP0630 & CP0647	546	7	5/8	16		N/A			9	4 1/2	6 3/4	6 7/8					8	5	7 1/2	6 7/8
17'-5"	1 5/8	0.781	CP0630 & CP0647	546	7	5/8	15		N/A			8	4 1/2	6 3/4	6 7/8					7	5	7 1/2	6 7/8
18'-5"	1 3/4	0.906	CP0630 & CP0647	546	7	5/8	15		N/A			8	4 1/2	6 3/4	6 7/8								N/A
19'-5"	1 7/8	1.031	CP0630 & CP0647	546	7	5/8	14		N/A			7	4 1/2	6 3/4	6 7/8								N/A
20'-5"	2 1/8	1.281	CP0630 & CP0647	548	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
21'-5"	2 1/4	1.406	CP0630 & CP0647	548	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	CP0630 & CP0647	548	7	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	CP0630 & CP0647	548	6	3/4	17		N/A			9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2				N/A
24'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16		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	CP0630 & CP0647	648	6	3/4	15		N/A			7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2				N/A

CP0001/CP0651 - 0.0236/0.0220 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 Distance	Max O.C.	Slot Size	Max O.C.	Max O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
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
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
7'-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	223
8'-5"	9	3/4	4 3/8	5 3/4		N/A			8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	255	0	253
9'-5"	8	3/4	4 3/8	5 3/4		N/A			7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	285	0	283
14'-5"		N/A				N/A			8	1/2	6 13/16	16	9/16 x 3/4	16	9	1/4	1486	435	1454	436
15'-5"		N/A				N/A			10	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	1691	465	1661	466
16'-5"		N/A				N/A			9	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1880	495	1853	496
17'-5"		N/A				N/A			8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1948	525	1924	526
18'-5"		N/A				N/A			8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2024	554	2003	556
19'-5"		N/A				N/A			7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2106	584	2087	585
20'-5"		N/A				N/A			10	3/4	7 1/2	36	13/16 x 1	36	21	3/8	2065	614	2043	614
21'-5"		N/A				N/A			10	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2160	643	2140	643
22'-5"		N/A				N/A			9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2149	672	2133	672
23'-5"		N/A				N/A			9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2344	702	2329	703
24'-5"		N/A				N/A			8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2540	732	2524	733
25'-5"		N/A				N/A			7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2736	763	2721	763



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
	SIZE: B SCALE: AS NOTED SHEET: 26/58	

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 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	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
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	6	2 3/8	5	5 3/4	9	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	7	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	6	2	3	5 3/4
14'-5"	1 5/16	0.469	CP0630 & CP0647	446	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
15'-5"	1 3/8	0.531	CP0630 & CP0647	546	7	5/8	15	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 1/2	0.656	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	1 1/2	0.656	CP0630 & CP0647	548	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			
18'-5"	1 5/8	0.781	CP0630 & CP0647	548	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"	1 3/4	0.906	CP0630 & CP0647	548	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			
20'-5"	1 7/8	1.031	CP0630 & CP0647	548	6	3/4	17	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	2	1.156	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
22'-5"	2 1/4	1.406	CP0630 & CP0647	648	6	3/4	16	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 3/8	1.531	CP0630 & CP0647	648	6	3/4	15	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			

CP0001/CP0651 - 0.0236/0.0220 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"	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	
6'-5"	12	3/4	4 3/8	5 3/4	9	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	212	0	209	
7'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	244	0	242	
8'-5"	9	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	277	0	274	
14'-5"	N/A				N/A				9	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1844	472	1806	473	
15'-5"	N/A				N/A				8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2044	505	2010	506	
16'-5"	N/A				N/A				8	5/8	6 7/8	18	11/16 x 7/8	18	9	5/16	2090	536	2060	538	
17'-5"	N/A				N/A				9	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2423	571	2383	571	
18'-5"	N/A				N/A				9	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2463	603	2428	603	
19'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2521	635	2489	635	
20'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2588	667	2559	667	
21'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2662	699	2636	699	
22'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2595	730	2574	730	
23'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2685	762	2666	762	
24'-5"	N/A				N/A				7	3/4	7 1/2	29	13/16 x 1	29	16	3/8	2775	794	2758	794	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0236/0.0220 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	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	8	2	3	5 3/4
6'-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	7	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
15'-5"	1 5/16	0.469	CP0630 & CP0647	548	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			
16'-5"	1 3/8	0.531	CP0630 & CP0647	548	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			
17'-5"	1 7/16	0.594	CP0630 & CP0647	548	6	3/4	17	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			

CP0001/CP0651 - 0.0236/0.0220 Minimum Thickness Galvanized or Stainless Steel - 70 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)	
	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					
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	
6'-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	228	0	225	
7'-5"	9	3/4	4 3/8	5 3/4	N/A			8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	263	0	260		
8'-5"	8	3/4	4 3/8	5 3/4	N/A			7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	298	0	295		
15'-5"	N/A				N/A				9	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2469	546	2416	546	
16'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	16	3/8	2648	581	2599	582	
17'-5"	N/A				N/A				8	3/4	7 1/2	29	13/16 x 1	29	15	3/8	2821	616	2775	617	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED			DRAWN BY: TJE
DWG NO: ES-16-65-CIW			SIZE: B SCALE: AS NOTED SHEET: 28/58

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	36	2 5/8	3 15/16	5 3/4	36	3	4 1/2	5 3/4	30	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	32	2 5/8	3 15/16	5 3/4	33	3	4 1/2	5 3/4	25	2	3	5 3/4
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
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
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	17	2	3	5 3/4
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	15	2	3	5 3/4
11'-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	18	3	4 1/2	5 3/4	14	2	3	5 3/4
12'-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	17	3	4 1/2	5 3/4	13	2	3	5 3/4
13'-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	3	5 3/4
14'-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	11	2	3	5 3/4
15'-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
16'-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	10	2	3	5 3/4
17'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	19	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	36	2 3/8	4	5 3/4	17	2 5/8	3 15/16	5 3/4	17	3	4 1/2	5 3/4	11	2	3	5 3/4
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	16	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	7	2	3	5 3/4
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	17	N/A				9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	6	2	3	5 3/4
21'-5"	1 1/2	0.719	CP0629	344	12	3/8	14	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
22'-5"	1 1/2	0.719	CP0629	344	11	3/8	12	N/A				6	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
23'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	18	4 1/2	6 3/4	6 13/16	14	4 1/8	6 3/16	6 13/16	8	2 1/2	3 3/4	6 13/16
24'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	16	4 1/2	6 3/4	6 13/16	13	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
25'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
26'-5"	2	1.219	CP0629	445	10	1/2	18	28	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
27'-5"	2	1.156	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
28'-5"	2	1.156	CP0630	445	9	1/2	16	22	3 5/8	8	6 13/16	10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
29'-5"	2	1.156	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
30'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
31'-5"	2	1.156	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
32'-5"	2	1.156	CP0630	446	8	5/8	18	N/A				11	4 1/2	6 3/4	6 7/8	N/A				10	5	7 1/2	6 7/8
33'-5"	2	1.156	CP0630	446	8	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
34'-5"	2	1.156	CP0630	446	8	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
35'-5"	2	1.156	CP0630 & CP0647	446	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
36'-5"	2	1.156	CP0630 & CP0647	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
37'-5"	2	1.156	CP0630 & CP0647	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
38'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
39'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	9	5	7 1/2	7 1/2
40'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION</b> <b>INSULATED ROLLING STEEL DOOR</b> <b>CP0001/CP0651 SLAT NON-IMPACT RATED</b>

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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 (-)	
5'-5"	9	3/8	1 5/8	5 3/4	15	3/8	2 5/8	5 3/4	36	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	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	55	0	55	
6'-5"	18	3/8	2 1/2	5 3/4	12	3/8	2 5/8	5 3/4	32	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	19	3/8	2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	65	0	65	
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	
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	
9'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	22	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	
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	
11'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	5 3/4	18	3/8	5 3/4	7 1/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	115	0	115	
12'-5"	9	3/8	2 1/2	5 3/4	8	1/2	3 1/2	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	125	0	125	
13'-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	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	135	0	135	
14'-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	22 3/4	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	145	0	145	
15'-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	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	12 5/8	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	155	0	155	
16'-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	22 3/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	28 1/2	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	165	0	165	
17'-5"	9	3/4	3 1/4	5 3/4	11	3/4	5 1/4	5 3/4	12	3/8	5 3/4	36	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	19	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	175	0	175	
18'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	5 3/4	17	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	35	7/16 x 5/8	35	23	3/16	296	185	282	185	
19'-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	28 1/2	1/2	3 5/8	6	5 3/4	19	1/2	2 3/4	4 1/2	5 3/4	36	1/2	3 3/4	8	5 3/4	24	7/16 x 5/8	24	16	3/16	438	195	425	195	
20'-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	19	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	19	7/16 x 5/8	19	12	3/16	573	205	561	205	
21'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	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	1/2	3/4	4 3/8	8	5 3/4	15	7/16 x 5/8	15	10	3/16	702	215	691	215
22'-5"	8	3/4	4 3/8	5 3/4	N/A				6	3/8	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				13	7/16 x 5/8	13	8	3/16	827	225	816	225		
23'-5"	11	3/4	4 3/8	6 13/16	8	3/4	5 1/4	6 13/16	18	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	28 1/2	3/4	4 1/8	6 3/4	6 13/16	36	3/4	4 3/8	7	6 13/16	36	9/16 x 3/4	36	21	1/4	631	234	624	235	
24'-5"	10	3/4	4 3/8	6 13/16	N/A				16	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	36	3/4	4 3/8	8	6 13/16	34	9/16 x 3/4	34	18	1/4	730	244	723	245	
25'-5"	8	3/4	4 3/8	6 13/16	N/A				14	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	19	3/4	4 3/8	8	6 13/16	30	9/16 x 3/4	30	16	1/4	827	254	820	255	
26'-5"	8	3/4	4 3/8	6 13/16	N/A				13	1/2	6 13/16	28 1/2	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A				27	9/16 x 3/4	27	15	1/4	921	264	915	265		
27'-5"	N/A				N/A				11	1/2	6 13/16	N/A				N/A				N/A				23	9/16 x 3/4	23	13	1/4	1051	275	1044	275				
28'-5"	N/A				N/A				10	1/2	6 13/16	N/A				N/A				N/A				21	9/16 x 3/4	21	12	1/4	1145	285	1138	285				
29'-5"	N/A				N/A				10	1/2	6 13/16	N/A				N/A				N/A				20	9/16 x 3/4	20	11	1/4	1238	295	1232	295				
30'-5"	N/A				N/A				9	1/2	6 13/16	N/A				N/A				N/A				18	9/16 x 3/4	18	10	1/4	1331	305	1325	305				
31'-5"	N/A				N/A				8	1/2	6 13/16	N/A				N/A				N/A				17	9/16 x 3/4	17	9	1/4	1424	315	1417	316				
32'-5"	N/A				N/A				11	5/8	6 7/8	N/A				N/A				N/A				24	11/16 x 7/8	24	13	5/16	1516	325	1510	326				
33'-5"	N/A				N/A				10	5/8	6 7/8	N/A				N/A				N/A				23	11/16 x 7/8	23	12	5/16	1609	335	1602	336				
34'-5"	N/A				N/A				10	5/8	6 7/8	N/A				N/A				N/A				22	11/16 x 7/8	22	12	5/16	1702	345	1695	346				
35'-5"	N/A				N/A				9	5/8	6 7/8	N/A				N/A				N/A				20	11/16 x 7/8	20	11	5/16	1795	355	1788	356				
36'-5"	N/A				N/A				9	5/8	6 7/8	N/A				N/A				N/A				19	11/16 x 7/8	19	11	5/16	1888	366	1881	366				
37'-5"	N/A				N/A				8	5/8	6 7/8	N/A				N/A				N/A				18	11/16 x 7/8	18	10	5/16	1982	376	1975	377				
38'-5"	N/A				N/A				8	5/8	6 7/8	N/A				N/A				N/A				18	11/16 x 7/8	18	10	5/16	2076	386	2069	387				
39'-5"	N/A				N/A				12	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	25	3/8	1786	395	1780	395				
40'-5"	N/A				N/A				11	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	24	3/8	1866	405	1860	405				



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>
	SIZE: <b>B</b> SCALE: <b>AS NOTED</b> SHEET: <b>30/58</b>	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	25	2 5/8	3 15/16	5 3/4	26	3	4 1/2	5 3/4	20	2	3	5 3/4
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
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	14	2	3	5 3/4
8'-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	17	3	4 1/2	5 3/4	13	2	3	5 3/4
9'-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	15	3	4 1/2	5 3/4	11	2	3	5 3/4
10'-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
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
13'-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	8	2	3	5 3/4
14'-5"	1 3/8	0.594	CP0629	344	12	3/8	18	14	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	11	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	11	2	3	5 3/4
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	8	2	3	5 3/4
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	N/A				9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	5	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	11	3/8	12	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	4	2	3	5 3/4
19'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	19	4 1/2	6 3/4	6 13/16	15	4 1/8	6 3/16	6 13/16	8	2 1/2	3 3/4	6 13/16
20'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
21'-5"	2	1.219	CP0629	445	11	1/2	18	28	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
22'-5"	2	1.156	CP0630	445	10	1/2	17	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
23'-5"	2	1.156	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
24'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
25'-5"	2	1.156	CP0630	446	8	5/8	18	N/A				11	4 1/2	6 3/4	6 7/8	N/A				7	4	6	6 7/8
26'-5"	2	1.156	CP0630	446	8	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	CP0630	446	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
28'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	16	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	CP0630 & CP0647	546	7	5/8	15	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	CP0630 & CP0647	546	7	5/8	14	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
34'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
35'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	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	CP0630 & CP0647	548	6	3/4	16	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
39'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
	SIZE: B SCALE: AS NOTED SHEET: 31/58	

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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 (-)
5'-5"	14	3/8	2 1/2	5 3/4	10	3/8	2 5/8	5 3/4	25	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	83	0	82
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
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
8'-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	128	0	127
9'-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	28 1/2	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	143	0	142
10'-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	28 1/2	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	158	0	157
11'-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	16 1/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	173	0	172
12'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	188	0	187
13'-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	28 1/2	1/2	3 5/8	8	5 3/4	22 3/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	203	0	202
14'-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	28 1/2	1/2	3 5/8	8	5 3/4	22 3/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	27	218	0	217
15'-5"	9	3/8	2 1/2	5 3/4	14	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	163	233	141	232
16'-5"	8	3/8	2 1/2	5 3/4	12	3/4	5 1/4	5 3/4	13	3/8	5 3/4	36	1/2	3 5/8	6	5 3/4	28 1/2	3/8	2 7/8	4 1/2	5 3/4	19	1/2	3 3/4	6	5 3/4	27	7/16 x 5/8	27	18	3/16	378	248	358	247
17'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	9	3/8	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	18	7/16 x 5/8	18	12	3/16	578	263	560	262
18'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	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					14	7/16 x 5/8	14	9	3/16	768	278	751	277
19'-5"	11	3/4	4 3/8	6 13/16	8	3/4	5 1/4	6 13/16	19	1/2	6 13/16	22 3/4	1/2	3 5/8	8	6 13/16	36	3/4	4 1/8	6 3/4	6 13/16	36	3/4	4 3/8	7	6 13/16	36	9/16 x 3/4	36	23	1/4	587	291	577	292
20'-5"	9	3/4	4 3/8	6 13/16	N/A				15	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	28 1/2	3/4	4 3/8	8	6 13/16	33	9/16 x 3/4	33	18	1/4	734	306	724	307
21'-5"	8	3/4	4 3/8	6 13/16	N/A				13	1/2	6 13/16	28 1/2	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A					28	9/16 x 3/4	28	15	1/4	876	321	866	322
22'-5"	N/A				N/A				11	1/2	6 13/16	N/A					N/A					23	9/16 x 3/4	23	13	1/4	1054	336	1044	337					
23'-5"	N/A				N/A				10	1/2	6 13/16	N/A					N/A					20	9/16 x 3/4	20	11	1/4	1191	352	1181	352					
24'-5"	N/A				N/A				9	1/2	6 13/16	N/A					N/A					18	9/16 x 3/4	18	10	1/4	1326	367	1316	367					
25'-5"	N/A				N/A				11	5/8	6 7/8	N/A					N/A					25	11/16 x 7/8	25	14	5/16	1459	382	1450	383					
26'-5"	N/A				N/A				10	5/8	6 7/8	N/A					N/A					23	11/16 x 7/8	23	13	5/16	1591	397	1582	398					
27'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					21	11/16 x 7/8	21	12	5/16	1723	412	1713	413					
28'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					20	11/16 x 7/8	20	11	5/16	1854	427	1844	428					
29'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					18	11/16 x 7/8	18	10	5/16	1985	442	1975	443					
30'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					17	11/16 x 7/8	17	9	5/16	2116	458	2107	459					
31'-5"	N/A				N/A				11	3/4	7 1/2	N/A					N/A					36	13/16 x 1	36	24	3/8	1836	471	1827	472					
32'-5"	N/A				N/A				11	3/4	7 1/2	N/A					N/A					36	13/16 x 1	36	22	3/8	1948	487	1939	487					
33'-5"	N/A				N/A				10	3/4	7 1/2	N/A					N/A					36	13/16 x 1	36	21	3/8	2061	502	2052	502					
34'-5"	N/A				N/A				10	3/4	7 1/2	N/A					N/A					36	13/16 x 1	36	20	3/8	2174	517	2165	517					
35'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					36	13/16 x 1	36	19	3/8	2288	532	2279	533					
36'-5"	N/A				N/A				9	3/4	7 1/2	N/A					N/A					34	13/16 x 1	34	18	3/8	2402	547	2393	548					
37'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					32	13/16 x 1	32	17	3/8	2517	563	2508	563					
38'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					31	13/16 x 1	31	17	3/8	2633	578	2624	578					
39'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					30	13/16 x 1	30	16	3/8	2749	593	2740	594					
40'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					28	13/16 x 1	28	15	3/8	2866	609	2857	609					



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
		SIZE: B SCALE: AS NOTED SHEET: 32/58

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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
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	12	2	3	5 3/4
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	11	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	7	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	7	2	3	5 3/4
11'-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	7	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4	N/A				N/A			
14'-5"	1 3/8	0.593	CP0629	344	12	3/8	18	28	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	8	2	3	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	N/A				9	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	6	2	3	5 3/4
16'-5"	1 1/2	0.719	CP0629	344	11	3/8	11	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
17'-5"	1 3/4	0.969	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
18'-5"	1 7/8	1.094	CP0629	445	11	1/2	18	28	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
19'-5"	2	1.156	CP0630	445	10	1/2	16	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
20'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
21'-5"	2	1.156	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
22'-5"	2	1.156	CP0630	446	8	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	CP0630	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
24'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	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	CP0630 & CP0647	546	7	5/8	14	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
28'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
29'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	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	CP0630 & CP0647	648	6	3/4	16	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	CP0630 & CP0647	648	6	3/4	15	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	CP0630 & CP0647	648	6	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
35'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
36'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
37'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	
DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: AS NOTED	SHEET: <b>33/58</b>
DWG NO:		<b>ES-16-65-CIW</b>	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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 (-)
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		12 5/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	16 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	110	0	109
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
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
8'-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		19	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	170	0	169
9'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	190	0	189
10'-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		19	1/2	3 5/8	8	5 3/4	16 1/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	210	0	209
11'-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	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	36	7/16 x 5/8	36	36	3/16	0	230	0	229
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4		N/A				N/A				N/A						N/A				18	9/16 x 3/4	18	18	1/4	0	250	0	248
14'-5"	9	1/2	3 1/2	5 3/4	11	3/4	5 1/4	5 3/4	13	3/8	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	36	1/2	3 3/4	8	5 3/4	26	7/16 x 5/8	26	17	3/16	389	290	359	289
15'-5"	11	3/4	4 3/8	5 3/4	9	3/4	5 1/4	5 3/4	9	3/8	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	20	7/16 x 5/8	20	13	3/16	525	310	500	309
16'-5"	8	3/4	4 3/8	5 3/4		N/A			7	3/8	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					13	7/16 x 5/8	13	9	3/16	776	330	753	330	
17'-5"	9	3/4	4 3/8	6 13/16		N/A			15	1/2	6 13/16		36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	22 3/4	3/4	4 3/8	8	6 13/16	32	9/16 x 3/4	32	18	1/4	767	349	750	349
18'-5"	8	3/4	4 3/8	6 13/16		N/A			13	1/2	6 13/16		28 1/2	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16					28	9/16 x 3/4	28	15	1/4	876	368	862	369	
19'-5"		N/A				N/A			11	1/2	6 13/16			N/A					N/A									24	9/16 x 3/4	24	13	1/4	1021	388	1008	389
20'-5"		N/A				N/A			9	1/2	6 13/16			N/A					N/A									20	9/16 x 3/4	20	11	1/4	1202	408	1189	409
21'-5"		N/A				N/A			8	1/2	6 13/16			N/A					N/A									18	9/16 x 3/4	18	10	1/4	1378	428	1366	429
22'-5"		N/A				N/A			10	5/8	6 7/8			N/A					N/A									24	11/16 x 7/8	24	13	5/16	1551	449	1539	450
23'-5"		N/A				N/A			9	5/8	6 7/8			N/A					N/A									21	11/16 x 7/8	21	12	5/16	1722	469	1710	470
24'-5"		N/A				N/A			8	5/8	6 7/8			N/A					N/A									19	11/16 x 7/8	19	11	5/16	1891	489	1879	490
25'-5"		N/A				N/A			8	5/8	6 7/8			N/A					N/A									18	11/16 x 7/8	18	10	5/16	2059	509	2047	510
26'-5"		N/A				N/A			11	3/4	7 1/2			N/A					N/A									36	13/16 x 1	36	24	3/8	1803	528	1791	528
27'-5"		N/A				N/A			11	3/4	7 1/2			N/A					N/A									36	13/16 x 1	36	22	3/8	1947	548	1935	549
28'-5"		N/A				N/A			10	3/4	7 1/2			N/A					N/A									36	13/16 x 1	36	21	3/8	2090	568	2078	569
29'-5"		N/A				N/A			9	3/4	7 1/2			N/A					N/A									36	13/16 x 1	36	20	3/8	2233	589	2222	589
30'-5"		N/A				N/A			9	3/4	7 1/2			N/A					N/A									34	13/16 x 1	34	18	3/8	2377	609	2366	609
31'-5"		N/A				N/A			8	3/4	7 1/2			N/A					N/A									32	13/16 x 1	32	17	3/8	2522	629	2510	630
32'-5"		N/A				N/A			8	3/4	7 1/2			N/A					N/A									30	13/16 x 1	30	16	3/8	2667	649	2656	650
33'-5"		N/A				N/A			7	3/4	7 1/2			N/A					N/A									29	13/16 x 1	29	15	3/8	2813	670	2802	670
34'-5"		N/A				N/A			7	3/4	7 1/2			N/A					N/A									27	13/16 x 1	27	15	3/8	2960	690	2949	691
35'-5"		N/A				N/A			7	3/4	7 1/2			N/A					N/A									26	13/16 x 1	26	14	3/8	3108	710	3097	711
36'-5"		N/A				N/A				N/A				N/A					N/A									25	13/16 x 1	25	13	3/8	3257	731	3246	731
37'-5"		N/A				N/A				N/A				N/A					N/A									24	13/16 x 1	24	13	3/8	3407	751	3396	752



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	12	2	3	5 3/4
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	10	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
8'-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	10	3	4 1/2	5 3/4	7	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	7	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4	N/A				N/A			
14'-5"	1 5/16	0.532	CP0629	344	11	3/8	11	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.656	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
16'-5"	1 5/8	0.781	CP0630	445	10	1/2	16	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
17'-5"	1 3/4	0.906	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
18'-5"	1 7/8	1.031	CP0630	445	9	1/2	13	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
19'-5"	2	1.156	CP0630	446	8	5/8	18	N/A				11	4 1/2	6 3/4	6 7/8	N/A				7	4	6	6 7/8
20'-5"	2	1.156	CP0630	546	8	5/8	17	N/A				10	4 1/2	6 3/4	6 7/8	N/A				9	5	7 1/2	6 7/8
21'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
22'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	14	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
23'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
25'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	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	CP0630 & CP0647	548	6	3/4	17	N/A				9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
28'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	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	CP0630 & CP0647	648	6	3/4	15	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	CP0630 & CP0647	648	6	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
31'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
32'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
	SIZE: B SCALE: AS NOTED SHEET: 35/58	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
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
7'-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	188	0	186
8'-5"	11	3/4	4 3/8	5 3/4	9	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	213	0	211
9'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	238	0	236
10'-5"	9	3/4	4 3/8	5 3/4	N/A			8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	263	0	261	
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4	N/A			18	9/16 x 3/4	18	18	1/4	105	312	62	310
14'-5"	N/A				N/A				6	3/8	5 3/4	12	7/16 x 5/8	12	8	3/16	854	363	819	362
15'-5"	N/A				N/A				12	1/2	6 13/16	25	9/16 x 3/4	25	14	1/4	971	387	945	387
16'-5"	N/A				N/A				11	1/2	6 13/16	22	9/16 x 3/4	22	12	1/4	1091	412	1069	412
17'-5"	N/A				N/A				9	1/2	6 13/16	20	9/16 x 3/4	20	11	1/4	1207	436	1187	437
18'-5"	N/A				N/A				9	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1317	461	1300	462
19'-5"	N/A				N/A				11	5/8	6 7/8	26	11/16 x 7/8	26	14	5/16	1422	485	1407	486
20'-5"	N/A				N/A				10	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	1635	511	1620	512
21'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1843	536	1828	537
22'-5"	N/A				N/A				8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2049	561	2034	562
23'-5"	N/A				N/A				11	3/4	7 1/2	36	13/16 x 1	36	24	3/8	1811	585	1796	585
24'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	22	3/8	1985	610	1971	610
25'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2159	635	2145	635
26'-5"	N/A				N/A				9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2332	660	2318	661
27'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2506	686	2492	686
28'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2680	711	2666	711
29'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2855	736	2841	737
30'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	14	3/8	3030	762	3017	762
31'-5"	N/A				N/A				N/A			25	13/16 x 1	25	13	3/8	3207	787	3194	788
32'-5"	N/A				N/A				N/A			24	13/16 x 1	24	13	3/8	3385	813	3372	813



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG	
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-65-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	10	2	3	5 3/4
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	8	2	3	5 3/4
7'-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	7	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4	N/A				N/A			
14'-5"	1 5/16	0.469	CP0630	445	8	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
15'-5"	1 3/8	0.531	CP0630	446	8	5/8	18	N/A				10	4 1/2	6 3/4	6 7/8	8	7 1/2	11 1/4	6 7/8	9	5	7 1/2	6 7/8
16'-5"	1 1/2	0.656	CP0630	446	8	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
17'-5"	1 5/8	0.781	CP0630 & CP0647	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"	1 3/4	0.906	CP0630 & CP0647	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"	1 7/8	1.031	CP0630 & CP0647	546	7	5/8	15	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	CP0630 & CP0647	546	7	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2 1/8	1.281	CP0630 & CP0647	548	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 3/8	1.531	CP0630 & CP0647	548	7	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	CP0630 & CP0647	548	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			
24'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
25'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
26'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
28'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
29'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:			
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
<b>TITLE:</b> WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED			<b>DRAWN BY:</b> TJE	<b>SIZE:</b> B	<b>SCALE:</b> AS NOTED	<b>SHEET:</b> 37/58
<b>DWG NO:</b> ES-16-65-CIW						

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
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
7'-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	223
8'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	255	0	253
9'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	285	0	283
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4	N/A			18	9/16 X 3/4	18	18	1/4	412	375	365	373
14'-5"	N/A				N/A				9	1/2	6 13/16	17	9/16 x 3/4	17	9	1/4	1388	435	1351	436
15'-5"	N/A				N/A				10	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	1613	465	1579	466
16'-5"	N/A				N/A				10	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	1688	495	1659	496
17'-5"	N/A				N/A				9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1777	524	1752	525
18'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1873	554	1851	555
19'-5"	N/A				N/A				8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1970	583	1951	585
20'-5"	N/A				N/A				7	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2067	613	2050	614
21'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2173	644	2150	644
22'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2152	672	2133	673
23'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2252	702	2235	702
24'-5"	N/A				N/A				8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2455	732	2439	733
25'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2658	762	2642	763
26'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2861	793	2845	793
27'-5"	N/A				N/A				7	3/4	7 1/2	26	13/16 x 1	26	14	3/8	3065	823	3049	824
28'-5"	N/A				N/A				N/A			25	13/16 x 1	25	13	3/8	3270	854	3254	854
29'-5"	N/A				N/A				N/A			23	13/16 x 1	23	12	3/8	3476	884	3460	885



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM			
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED	SHEET: 38/58
DWG NO: ES-16-65-CIW				

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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	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
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	6	2 3/8	5	5 3/4	9	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	7	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	6	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				6	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4	N/A				N/A			
15'-5"	1 3/8	0.531	CP0630 & CP0647	546	7	5/8	17	N/A				9	4 1/2	6 3/4	6 7/8	6	7 1/2	11 1/4	6 7/8	8	5	7 1/2	6 7/8
16'-5"	1 7/16	0.594	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
17'-5"	1 1/2	0.656	CP0630 & CP0647	548	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			
18'-5"	1 5/8	0.781	CP0630 & CP0647	548	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"	1 3/4	0.906	CP0630 & CP0647	548	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"	1 7/8	1.031	CP0630 & CP0647	548	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			
21'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	17	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 1/4	1.406	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A			
23'-5"	2 3/8	1.531	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A			
24'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
25'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
26'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>
DWG NO: <b>ES-16-65-CIW</b>		

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
6'-5"	12	3/4	4 3/8	5 3/4	9	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	212	0	209
7'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	244	0	242
8'-5"	9	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	277	0	274
9'-5"	8	3/4	4 3/8	5 3/4	N/A				6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	309	0	307
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4	N/A			18	9/16 X 3/4	18	18	1/4	566	406	517	404
15'-5"	N/A				N/A				9	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1826	504	1790	505
16'-5"	N/A				N/A				8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2040	537	2007	538
17'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2254	570	2211	571
18'-5"	N/A				N/A				9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2312	602	2274	603
19'-5"	N/A				N/A				9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2385	634	2351	635
20'-5"	N/A				N/A				9	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2465	666	2435	667
21'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2550	698	2524	699
22'-5"	N/A				N/A				8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2494	729	2472	730
23'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2592	761	2573	762
24'-5"	N/A				N/A				7	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2690	793	2673	794
25'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2908	826	2890	827
26'-5"	N/A				N/A				N/A			26	13/16 x 1	26	14	3/8	3126	859	3108	860
27'-5"	N/A				N/A				N/A			24	13/16 x 1	24	13	3/8	3344	892	3327	893



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0296/0.0220 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	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	8	2	3	5 3/4
6'-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	7	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
15'-5"	1 5/16	0.469	CP0630 & CP0647	546	6	5/8	14	N/A				7	4 1/2	6 3/4	6 7/8	N/A				N/A			
16'-5"	1 3/8	0.531	CP0630 & CP0647	548	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			
17'-5"	1 7/16	0.594	CP0630 & CP0647	548	6	3/4	18	N/A				8	5	7 1/2	7 1/2	N/A				N/A			
18'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	16	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
19'-5"	1 5/8	0.781	CP0630 & CP0647	648	6	3/4	16	N/A				7	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
20'-5"	1 3/4	0.906	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	1 7/8	1.031	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
22'-5"	2	1.156	CP0630 & CP0647	648	5	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
23'-5"	2 1/8	1.281	CP0630 & CP0647	648	5	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
24'-5"	2 3/8	1.531	CP0630 & CP0647	648	5	3/4	13	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
25'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
26'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															

CP0001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 70 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
6'-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	228	0	225
7'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	263	0	260
8'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	298	0	295
15'-5"	N/A				N/A				7	5/8	6 7/8	16	11/16 x 7/8	16	9	5/16	2234	544	2193	545
16'-5"	N/A				N/A				9	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2457	580	2405	580
17'-5"	N/A				N/A				8	3/4	7 1/2	31	13/16 x 1	31	16	3/8	2651	615	2603	616
18'-5"	N/A				N/A				8	3/4	7 1/2	29	13/16 x 1	29	15	3/8	2837	651	2793	651
19'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2866	685	2826	685
20'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2917	719	2881	720
21'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	2981	753	2950	754
22'-5"	N/A				N/A				7	3/4	7 1/2	26	13/16 x 1	26	14	3/8	3055	788	3026	788
23'-5"	N/A				N/A				7	3/4	7 1/2	26	13/16 x 1	26	14	3/8	3134	822	3108	823
24'-5"	N/A				N/A				7	3/4	7 1/2	26	13/16 x 1	26	14	3/8	3062	855	3041	856
25'-5"	N/A				N/A				N/A			25	13/16 x 1	25	14	3/8	3157	890	3139	891
26'-5"	N/A				N/A				N/A			24	13/16 x 1	24	13	3/8	3390	925	3371	926



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 20 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	36	2 5/8	3 15/16	5 3/4	36	3	4 1/2	5 3/4	30	2	3	5 3/4
6'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	32	2 5/8	3 15/16	5 3/4	33	3	4 1/2	5 3/4	25	2	3	5 3/4
7'-5"	N/A	N/A	CP0407	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
8'-5"	N/A	N/A	CP0407	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
9'-5"	N/A	N/A	CP0407	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	17	2	3	5 3/4
10'-5"	N/A	N/A	CP0407	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	15	2	3	5 3/4
11'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	18	2 5/8	3 15/16	5 3/4	18	3	4 1/2	5 3/4	14	2	3	5 3/4
12'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	16	2 5/8	3 15/16	5 3/4	17	3	4 1/2	5 3/4	13	2	3	5 3/4
13'-5"	N/A	N/A	CP0407	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	3	5 3/4
14'-5"	N/A	N/A	CP0407	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	11	2	3	5 3/4
15'-5"	N/A	N/A	CP0407	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
16'-5"	N/A	N/A	CP0407	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	10	2	3	5 3/4
17'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	19	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
18'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	11	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	9	2	3	5 3/4
19'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	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	9	2	3	5 3/4
20'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	12	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	6	2	3	5 3/4
21'-5"	1 1/2	0.719	CP0629	344	12	3/8	15	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
22'-5"	1 1/2	0.719	CP0629	344	11	3/8	13	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	4	2	3	5 3/4
23'-5"	1 1/2	0.719	CP0629	344	11	3/8	11	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	4	2 1/2	3 3/4	5 3/4
24'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	17	4 1/2	6 3/4	6 13/16	13	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
25'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
26'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
27'-5"	2	1.156	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
28'-5"	2	1.156	CP0630	445	9	1/2	17	28	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
29'-5"	2	1.156	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
30'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
31'-5"	2	1.156	CP0630	445	8	1/2	14	N/A				8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
32'-5"	2	1.156	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
33'-5"	2	1.156	CP0630	446	8	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
34'-5"	2	1.156	CP0630	446	8	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	CP0630	446	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
36'-5"	2	1.156	CP0630 & CP0647	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
37'-5"	2	1.156	CP0630 & CP0647	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
38'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
39'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
40'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
SIZE: B SCALE: AS NOTED SHEET: 42/58		

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
5'-5"	9	3/8	1 5/8	5 3/4	15	3/8	2 5/8	5 3/4	36	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	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	55	0	55	
6'-5"	18	3/8	2 1/2	5 3/4	12	3/8	2 5/8	5 3/4	32	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	19	3/8	2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	65	0	65	
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	
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	
9'-5"	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	22	3/8	5 3/4	36	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	
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	
11'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	5 3/4	18	3/8	5 3/4	7 1/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	115	0	115	
12'-5"	9	3/8	2 1/2	5 3/4	8	1/2	3 1/2	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	125	0	125	
13'-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	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	135	0	135	
14'-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	22 3/4	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	145	0	145	
15'-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	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	12 5/8	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	155	0	155	
16'-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	22 3/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	28 1/2	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	165	0	165	
17'-5"	9	3/4	3 1/4	5 3/4	11	3/4	5 1/4	5 3/4	12	3/8	5 3/4	36	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	19	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	175	0	175	
18'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	185	0	185	
19'-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	19	1/2	2 1/2	4	5 3/4	29	7/16 x 5/8	29	19	3/16	359	195	345	195	
20'-5"	8	3/4	3 1/4	5 3/4	9	3/4	5 1/4	5 3/4	10	3/8	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	16 1/4	1/2	3 3/4	8	5 3/4	21	7/16 x 5/8	21	14	3/16	502	205	489	205	
21'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	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	17	7/16 x 5/8	17	11	3/16	637	215	625	215	
22'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	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	14	7/16 x 5/8	14	9	3/16	768	225	756	225	
23'-5"	N/A				N/A				6	3/8	5 3/4	N/A				N/A				N/A				12	7/16 x 5/8	12	8	3/16	894	235	883	235				
24'-5"	10	3/4	4 3/8	6 13/16	8	3/4	5 1/4	6 13/16	17	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	19	3/4	4 1/8	6 3/4	6 13/16	22 3/4	3/4	4 3/8	7	6 13/16	36	9/16 x 3/4	36	20	1/4	680	244	673	245	
25'-5"	9	3/4	4 3/8	6 13/16	N/A				15	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	28 1/2	3/4	4 3/8	8	6 13/16	31	9/16 x 3/4	31	17	1/4	781	254	774	255	
26'-5"	8	3/4	4 3/8	6 13/16	N/A				13	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A				28	9/16 x 3/4	28	15	1/4	879	264	872	265		
27'-5"	N/A				N/A				12	1/2	6 13/16	N/A				N/A				N/A				24	9/16 x 3/4	24	13	1/4	1011	274	1004	275				
28'-5"	N/A				N/A				11	1/2	6 13/16	N/A				N/A				N/A				22	9/16 x 3/4	22	12	1/4	1108	285	1101	285				
29'-5"	N/A				N/A				10	1/2	6 13/16	N/A				N/A				N/A				20	9/16 x 3/4	20	11	1/4	1204	295	1197	295				
30'-5"	N/A				N/A				9	1/2	6 13/16	N/A				N/A				N/A				19	9/16 x 3/4	19	10	1/4	1299	305	1292	305				
31'-5"	N/A				N/A				8	1/2	6 13/16	N/A				N/A				N/A				17	9/16 x 3/4	17	9	1/4	1394	315	1387	315				
32'-5"	N/A				N/A				8	1/2	6 13/16	N/A				N/A				N/A				16	9/16 x 3/4	16	9	1/4	1488	325	1482	325				
33'-5"	N/A				N/A				10	5/8	6 7/8	N/A				N/A				N/A				23	11/16 x 7/8	23	13	5/16	1582	335	1576	336				
34'-5"	N/A				N/A				10	5/8	6 7/8	N/A				N/A				N/A				22	11/16 x 7/8	22	12	5/16	1677	345	1670	346				
35'-5"	N/A				N/A				9	5/8	6 7/8	N/A				N/A				N/A				21	11/16 x 7/8	21	11	5/16	1771	355	1764	356				
36'-5"	N/A				N/A				9	5/8	6 7/8	N/A				N/A				N/A				20	11/16 x 7/8	20	11	5/16	1866	365	1859	366				
37'-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	1960	375	1954	376				
38'-5"	N/A				N/A				8	5/8	6 7/8	N/A				N/A				N/A				18	11/16 x 7/8	18	10	5/16	2056	386	2049	386				
39'-5"	N/A				N/A				8	5/8	6 7/8	N/A				N/A				N/A				17	11/16 x 7/8	17	9	5/16	2151	396	2144	397				
40'-5"	N/A				N/A				12	3/4	7 1/2	N/A				N/A				N/A				36	13/16 x 1	36	24	3/8	1848	405	1842	405				



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
		SIZE: B SCALE: AS NOTED SHEET: 43/58

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 30 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	25	2 5/8	3 15/16	5 3/4	26	3	4 1/2	5 3/4	20	2	3	5 3/4
6'-5"	N/A	N/A	CP0407	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
7'-5"	N/A	N/A	CP0407	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	3	5 3/4
8'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	16	2 5/8	3 15/16	5 3/4	17	3	4 1/2	5 3/4	13	2	3	5 3/4
9'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	36	2 3/8	4	5 3/4	14	2 5/8	3 15/16	5 3/4	15	3	4 1/2	5 3/4	11	2	3	5 3/4
10'-5"	N/A	N/A	CP0407	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
11'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
12'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
13'-5"	N/A	N/A	CP0407	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	8	2	3	5 3/4
14'-5"	N/A	N/A	CP0407	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	7	2	3	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	8	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	7	2	3	5 3/4
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	36	2 3/8	4	5 3/4	17	2 5/8	3 15/16	5 3/4	18	3	4 1/2	5 3/4	11	2	3	5 3/4
17'-5"	1 1/2	0.719	CP0629	344	12	3/8	17	14	2 3/8	5	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	6	2	3	5 3/4
18'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
19'-5"	1 1/2	0.719	CP0629	344	11	3/8	11	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
20'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	17	4 1/2	6 3/4	6 13/16	13	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
21'-5"	2	1.219	CP0629	445	11	1/2	18	36	3 5/8	6	6 13/16	14	4 1/2	6 3/4	6 13/16	11	4 1/8	6 3/16	6 13/16	6	2 1/2	3 3/4	6 13/16
22'-5"	2	1.156	CP0630	445	10	1/2	17	36	3 5/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
23'-5"	2	1.156	CP0630	445	9	1/2	15	19	3 5/8	8	6 13/16	10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
24'-5"	2	1.156	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
25'-5"	2	1.156	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
26'-5"	2	1.156	CP0630	446	8	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	CP0630	446	8	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	CP0630 & CP0647	546	7	5/8	16	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	CP0630 & CP0647	546	7	5/8	15	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	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
31'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
33'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
34'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
35'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	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	CP0630 & CP0647	548	6	3/4	17	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	CP0630 & CP0647	648	6	3/4	16	N/A				8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A			
40'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>
		SCALE: <b>AS NOTED</b> SHEET: <b>44/58</b>

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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 T2					Simpson Strong-Bolt 2					ITW Redhead Trubolt+					Welded		Through Bolt	Tapped		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
5'-5"	14	3/8	2 1/2	5 3/4	10	3/8	2 5/8	5 3/4	25	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	83	0	82
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
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
8'-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	128	0	127
9'-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	28 1/2	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	143	0	142
10'-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	28 1/2	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	10 5/16	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	36	3/16	0	158	0	157
11'-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	16 1/4	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	173	0	172
12'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	188	0	187
13'-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	28 1/2	1/2	3 5/8	8	5 3/4	22 3/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	203	0	202
14'-5"	11	3/4	4 3/8	5 3/4	9	3/4	5 1/4	5 3/4	9	3/8	5 3/4	14 1/4	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	7/16 x 5/8	36	36	3/16	0	218	0	217
15'-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	22 3/4	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	7/16 x 5/8	36	36	3/16	38	233	14	232
16'-5"	10	3/8	2 1/2	5 3/4	8	1/2	3 1/2	5 3/4	17	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	24	3/16	268	248	246	247
17'-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	1/2	3 5/8	8	5 3/4	28 1/2	1/2	3 7/8	6	5 3/4	16 1/4	1/2	3 3/4	8	5 3/4	22	7/16 x 5/8	22	14	3/16	481	263	461	262
18'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	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	15	7/16 x 5/8	15	10	3/16	680	278	662	277
19'-5"	N/A				N/A				6	3/8	5 3/4	N/A					36	3/4	5 3/4	8 3/4	5 3/4	N/A					12	7/16 x 5/8	12	8	3/16	870	293	853	292
20'-5"	10	3/4	4 3/8	6 13/16	8	3/4	5 1/4	6 13/16	17	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	22 3/4	3/4	4 3/8	7	6 13/16	36	9/16 x 3/4	36	20	1/4	663	306	652	307
21'-5"	8	3/4	4 3/8	6 13/16	N/A				14	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	N/A					30	9/16 x 3/4	30	17	1/4	811	321	801	322
22'-5"	N/A				N/A				12	1/2	6 13/16	N/A					N/A					N/A					25	9/16 x 3/4	25	13	1/4	994	336	984	337
23'-5"	N/A				N/A				10	1/2	6 13/16	N/A					N/A					N/A					21	9/16 x 3/4	21	12	1/4	1136	351	1127	352
24'-5"	N/A				N/A				9	1/2	6 13/16	N/A					N/A					N/A					19	9/16 x 3/4	19	10	1/4	1276	366	1266	367
25'-5"	N/A				N/A				8	1/2	6 13/16	N/A					N/A					N/A					17	9/16 x 3/4	17	9	1/4	1413	382	1403	382
26'-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	1548	397	1539	397
27'-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	1683	412	1674	413
28'-5"	N/A				N/A				9	5/8	6 7/8	N/A					N/A					N/A					20	11/16 x 7/8	20	11	5/16	1817	427	1807	428
29'-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	1950	442	1941	443
30'-5"	N/A				N/A				8	5/8	6 7/8	N/A					N/A					N/A					18	11/16 x 7/8	18	10	5/16	2084	457	2074	458
31'-5"	N/A				N/A				12	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	24	3/8	1806	471	1797	472
32'-5"	N/A				N/A				11	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	23	3/8	1920	486	1911	487
33'-5"	N/A				N/A				10	3/4	7 1/2	N/A					N/A					N/A					36	13/16 x 1	36	22	3/8	2034	501	2025	502
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	2149	517	2140	517
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	2264	532	2255	532
36'-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	2380	547	2371	547
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	2496	562	2487	563
38'-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	2613	577	2604	578
39'-5"	N/A				N/A				8	3/4	7 1/2	N/A					N/A					N/A					30	13/16 x 1	30	16	3/8	2730	593	2721	593
40'-5"	N/A				N/A				7	3/4	7 1/2	N/A					N/A					N/A					29	13/16 x 1	29	15	3/8	2848	608	2839	608



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TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>45/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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
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	12	2	3	5 3/4
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	11	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	22	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	9	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	8	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	7	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	7	2	3	5 3/4
11'-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	7	2	3	5 3/4
12'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
14'-5"	1 3/8	0.594	CP0629	344	12	3/8	18	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	12	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	12	3/8	18	19	2 3/8	4	5 3/4	12	2 5/8	3 15/16	5 3/4	12	3	4 1/2	5 3/4	7	2	3	5 3/4
16'-5"	1 1/2	0.719	CP0629	344	12	3/8	13	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	5	2	3	5 3/4
17'-5"	1 3/4	0.969	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	17	4 1/2	6 3/4	6 13/16	13	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
18'-5"	2	1.219	CP0629	445	12	1/2	18	36	3 5/8	6	6 13/16	15	4 1/2	6 3/4	6 13/16	12	4 1/8	6 3/16	6 13/16	7	2 1/2	3 3/4	6 13/16
19'-5"	2	1.219	CP0629	445	11	1/2	18	22	3 5/8	6	6 13/16	12	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
20'-5"	2	1.156	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
21'-5"	2	1.156	CP0630	445	9	1/2	13	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
22'-5"	2	1.156	CP0630	446	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
23'-5"	2	1.156	CP0630	546	8	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
24'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	16	N/A				9	4 1/2	6 3/4	6 7/8	N/A				8	5	7 1/2	6 7/8
25'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
26'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	12	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A				11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
28'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
29'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	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	CP0630 & CP0647	548	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	CP0630 & CP0647	548	6	3/4	17	N/A				8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A			
32'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	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	CP0630 & CP0647	648	6	3/4	15	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	CP0630 & CP0647	648	6	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
35'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
36'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
37'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
38'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															



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TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>46/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
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	12 5/8	3/8	2 5/16	5	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	16 1/4	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	110	0	109	
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	
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	
8'-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	19	1/2	3 5/8	6	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	22 3/4	1/2	3 3/4	8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	170	0	169	
9'-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	1/2	3 5/8	8	5 3/4	36	3/8	2 7/8	4 1/2	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	190	0	189	
10'-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	19	1/2	3 5/8	8	5 3/4	16 1/4	1/2	3 7/8	6	5 3/4	36	3/4	4 3/8	7	5 3/4	36	7/16 x 5/8	36	36	3/16	0	210	0	209	
11'-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	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	36	7/16 x 5/8	36	36	3/16	0	230	0	229	
12'-5"	10	3/4	4 3/8	5 3/4	N/A				8	3/8	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	36	7/16 x 5/8	36	36	3/16	0	250	0	249	
14'-5"	8	3/8	2 1/2	5 3/4	13	3/4	5 1/4	5 3/4	15	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	28 1/2	1/2	2 1/2	4	5 3/4	36	7/16 x 5/8	36	26	3/16	245	290	213	289	
15'-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	28 1/2	1/2	3 5/8	6	5 3/4	19	1/2	2 3/4	4 1/2	5 3/4	36	1/2	3 3/4	8	5 3/4	26	7/16 x 5/8	26	16	3/16	400	310	373	309	
16'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	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	16	7/16 x 5/8	16	10	3/16	666	330	641	329	
17'-5"	10	3/4	4 3/8	6 13/16	N/A				17	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	19	3/4	4 3/8	7	6 13/16	36	9/16 x 3/4	36	20	1/4	668	349	651	349	
18'-5"	9	3/4	4 3/8	6 13/16	N/A				15	1/2	6 13/16	36	3/4	5 9/16	8	6 13/16	36	3/4	5 3/4	8 3/4	6 13/16	28 1/2	3/4	4 3/8	8	6 13/16	35	9/16 x 3/4	35	19	1/4	706	368	693	369	
19'-5"	N/A				N/A				12	1/2	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						27	9/16 x 3/4	27	15	1/4	899	388	886	389
20'-5"	N/A				N/A				10	1/2	6 13/16	N/A						N/A						22	9/16 x 3/4	22	12	1/4	1130	408	1117	409				
21'-5"	N/A				N/A				9	1/2	6 13/16	N/A						N/A						18	9/16 x 3/4	18	10	1/4	1313	428	1301	429				
22'-5"	N/A				N/A				11	5/8	6 7/8	N/A						N/A						25	11/16 x 7/8	25	14	5/16	1492	448	1479	449				
23'-5"	N/A				N/A				9	5/8	6 7/8	N/A						N/A						22	11/16 x 7/8	22	12	5/16	1667	469	1655	470				
24'-5"	N/A				N/A				9	5/8	6 7/8	N/A						N/A						20	11/16 x 7/8	20	11	5/16	1841	489	1829	490				
25'-5"	N/A				N/A				8	5/8	6 7/8	N/A						N/A						18	11/16 x 7/8	18	10	5/16	2013	509	2001	510				
26'-5"	N/A				N/A				12	3/4	7 1/2	N/A						N/A						36	13/16 x 1	36	25	3/8	1761	528	1749	528				
27'-5"	N/A				N/A				11	3/4	7 1/2	N/A						N/A						36	13/16 x 1	36	23	3/8	1907	548	1895	548				
28'-5"	N/A				N/A				10	3/4	7 1/2	N/A						N/A						36	13/16 x 1	36	21	3/8	2053	568	2042	568				
29'-5"	N/A				N/A				9	3/4	7 1/2	N/A						N/A						36	13/16 x 1	36	20	3/8	2199	588	2188	589				
30'-5"	N/A				N/A				9	3/4	7 1/2	N/A						N/A						34	13/16 x 1	34	19	3/8	2345	608	2334	609				
31'-5"	N/A				N/A				8	3/4	7 1/2	N/A						N/A						32	13/16 x 1	32	17	3/8	2492	629	2480	629				
32'-5"	N/A				N/A				8	3/4	7 1/2	N/A						N/A						31	13/16 x 1	31	16	3/8	2639	649	2627	649				
33'-5"	N/A				N/A				7	3/4	7 1/2	N/A						N/A						29	13/16 x 1	29	16	3/8	2787	669	2775	670				
34'-5"	N/A				N/A				7	3/4	7 1/2	N/A						N/A						28	13/16 x 1	28	15	3/8	2935	689	2924	690				
35'-5"	N/A				N/A				7	3/4	7 1/2	N/A						N/A						26	13/16 x 1	26	14	3/8	3085	710	3073	710				
36'-5"	N/A				N/A				13	3/4	0	N/A						N/A						25	13/16 x 1	25	13	3/8	3235	730	3223	731				
37'-5"	N/A				N/A				13	3/4	0	N/A						N/A						24	13/16 x 1	24	13	3/8	3387	750	3375	751				
38'-5"	N/A				N/A				12	3/4	0	N/A						N/A						23	13/16 x 1	23	12	3/8	3539	771	3528	771				



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:			
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG			
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED			DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>	SHEET: <b>47/58</b>
			DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	12	2	3	5 3/4
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	10	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	9	2 3/8	4	5 3/4	11	2 5/8	3 15/16	5 3/4	11	3	4 1/2	5 3/4	8	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24					9	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	7	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24					8	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	7	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24					8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
11'-5"	N/A	N/A	N/A	344*	N/A	3/8	24					7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4								
14'-5"	1 3/8	0.594	CP0629	344	12	3/8	13					8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2 1/2	3 3/4	5 3/4
15'-5"	1 1/2	0.719	CP0629	344	11	3/8	11					7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2 1/2	3 3/4	5 3/4
16'-5"	1 5/8	0.844	CP0629	445	10	1/2	18	22	3 5/8	6	6 13/16	13	4 1/2	6 3/4	6 13/16	10	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
17'-5"	1 7/8	1.031	CP0630	445	10	1/2	16	36	3 5/8	8	6 13/16	11	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	8	3 1/2	5 1/4	6 13/16
18'-5"	2	1.156	CP0630	445	9	1/2	14					10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	7	3 1/2	5 1/4	6 13/16
19'-5"	2	1.156	CP0630	445	9	1/2	12					8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
20'-5"	2	1.156	CP0630	446	8	5/8	18					10	4 1/2	6 3/4	6 7/8					9	5	7 1/2	6 7/8
21'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	16					9	4 1/2	6 3/4	6 7/8					8	5	7 1/2	6 7/8
22'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	14					8	4 1/2	6 3/4	6 7/8								
23'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	28	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2				
24'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18					10	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2				
25'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18					10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2				
26'-5"	2 1/2	1.656	CP0630 & CP0647	548	6	3/4	18					9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2				
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	17					8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2				
28'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16					8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2				
29'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15					7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2				
30'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14					7	5	7 1/2	7 1/2								
31'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13																
32'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13																



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: AS NOTED	SHEET: <b>48/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
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
7'-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	188	0	186
8'-5"	11	3/4	4 3/8	5 3/4	9	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	213	0	211
9'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	238	0	236
10'-5"	9	3/4	4 3/8	5 3/4	N/A			8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	263	0	261	
11'-5"	8	3/4	4 3/8	5 3/4	N/A			7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	288	0	286	
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4	N/A			18	9/16 x 3/4	18	18	1/4	0	313	0	310
14'-5"	10	3/4	4 3/8	5 3/4	N/A			8	3/8	5 3/4	17	7/16 x 5/8	17	11	3/16	607	363	571	362	
15'-5"	8	3/4	4 3/8	5 3/4	N/A			7	3/8	5 3/4	14	7/16 x 5/8	14	9	3/16	762	387	733	387	
16'-5"	N/A			N/A			13	1/2	6 13/16	27	9/16 x 3/4	27	15	1/4	905	411	883	411		
17'-5"	N/A			N/A			11	1/2	6 13/16	25	9/16 x 3/4	25	14	1/4	984	436	966	436		
18'-5"	N/A			N/A			10	1/2	6 13/16	22	9/16 x 3/4	22	12	1/4	1117	460	1101	461		
19'-5"	N/A			N/A			8	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1343	485	1328	486		
20'-5"	N/A			N/A			10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1563	510	1548	511		
21'-5"	N/A			N/A			9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1778	535	1763	537		
22'-5"	N/A			N/A			8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	1989	561	1974	562		
23'-5"	N/A			N/A			11	3/4	7 1/2	36	13/16 x 1	36	25	3/8	1757	585	1742	585		
24'-5"	N/A			N/A			10	3/4	7 1/2	36	13/16 x 1	36	22	3/8	1936	610	1921	610		
25'-5"	N/A			N/A			10	3/4	7 1/2	36	13/16 x 1	36	21	3/8	2113	635	2098	635		
26'-5"	N/A			N/A			9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2290	660	2276	660		
27'-5"	N/A			N/A			8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2467	685	2452	686		
28'-5"	N/A			N/A			8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2643	710	2629	711		
29'-5"	N/A			N/A			7	3/4	7 1/2	29	13/16 x 1	29	15	3/8	2821	736	2807	736		
30'-5"	N/A			N/A			7	3/4	7 1/2	27	13/16 x 1	27	14	3/8	2999	761	2985	762		
31'-5"	N/A			N/A			14	3/4	0	25	13/16 x 1	25	14	3/8	3178	786	3164	787		
32'-5"	N/A			N/A			13	3/4	0	24	13/16 x 1	24	13	3/8	3357	812	3343	812		



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ		Unless otherwise specified, dimensions are in inches & tolerances are:		
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: AS NOTED	SHEET: <b>49/58</b>
		DWG NO: <b>ES-16-65-CIW</b>			

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																							
Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																							
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	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	10	2	3	5 3/4
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	8	2	3	5 3/4
7'-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	7	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
10'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4	N/A				N/A			
14'-5"	1 7/16	0.594	CP0630	445	10	1/2	18	36	3 5/8	8	6 13/16	12	4 1/2	6 3/4	6 13/16	9	4 1/8	6 3/16	6 13/16	10	4	6	6 13/16
15'-5"	1 1/2	0.656	CP0630	445	9	1/2	14	N/A				9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
16'-5"	1 5/8	0.781	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16
17'-5"	1 7/8	1.031	CP0630	445	9	1/2	12	N/A				8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
18'-5"	2	1.156	CP0630	446	8	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	CP0630	546	7	5/8	16	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	CP0630 & CP0647	546	7	5/8	14	N/A				8	4 1/2	6 3/4	6 7/8	N/A				N/A			
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
22'-5"	2 1/2	1.656	CP0630 & CP0647	548	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			
23'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	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			
25'-5"	2 1/2	1.656	CP0630 & CP0647	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			
26'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
28'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
29'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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				
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
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
7'-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	223
8'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	255	0	253
9'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	285	0	283
10'-5"	8	3/4	4 3/8	5 3/4	N/A				6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	315	0	313
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4	N/A			18	9/16 x 3/4	18	18	1/4	219	375	169	373
14'-5"	N/A				N/A				12	1/2	6 13/16	25	9/16 x 3/4	25	14	1/4	964	434	930	434
15'-5"	N/A				N/A				9	1/2	6 13/16	20	9/16 x 3/4	20	11	1/4	1226	464	1196	465
16'-5"	N/A				N/A				8	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1363	494	1336	495
17'-5"	N/A				N/A				8	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1347	523	1326	524
18'-5"	N/A				N/A				10	5/8	6 7/8	25	11/16 x 7/8	25	14	5/16	1488	552	1470	553
19'-5"	N/A				N/A				9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1745	582	1727	584
20'-5"	N/A				N/A				8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	1996	613	1978	614
21'-5"	N/A				N/A				11	3/4	7 1/2	36	13/16 x 1	36	24	3/8	1779	641	1761	642
22'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	22	3/8	1990	672	1972	672
23'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2198	702	2181	702
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2612	761	2595	762
26'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2819	792	2802	793
27'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	14	3/8	3026	822	3009	823
28'-5"	N/A				N/A				N/A			25	13/16 x 1	25	13	3/8	3233	853	3217	854
29'-5"	N/A				N/A				N/A			23	13/16 x 1	23	12	3/8	3442	883	3426	884



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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	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
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	6	2 3/8	5	5 3/4	9	2 5/8	3 15/16	5 3/4	10	3	4 1/2	5 3/4	7	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	6	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				6	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
12'-5"	1 5/16	0.532	CP0629	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	5 3/4	N/A				N/A			
14'-5"	1 7/16	0.594	CP0630	445	9	1/2	15	N/A				10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	8	4	6	6 13/16
15'-5"	1 1/2	0.656	CP0630	445	8	1/2	13	N/A				8	4 1/2	6 3/4	6 13/16	6	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
16'-5"	1 5/8	0.781	CP0630	446	8	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"	1 7/8	1.031	CP0630	446	8	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	CP0630	546	8	5/8	16	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	CP0630 & CP0647	546	7	5/8	14	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 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	22	5 5/8	8	7 1/2	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A			
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	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	CP0630 & CP0647	548	7	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			
25'-5"	2 1/2	1.656	CP0630 & CP0647	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			
26'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A															
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A															

CP0001/CP0651 - 0.0405/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)	
	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						
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		
6'-5"	12	3/4	4 3/8	5 3/4	9	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	212	0	209		
7'-5"	10	3/4	4 3/8	5 3/4	8	3/4	5 1/4	5 3/4	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	244	0	242		
8'-5"	9	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	277	0	274		
9'-5"	8	3/4	4 3/8	5 3/4	N/A				6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	309	0	307		
12'-5"	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	5 3/4	N/A				18	9/16 x 3/4	18	18	1/4	373	406	321	404	
14'-5"	N/A				N/A				10	1/2	6 13/16	21	9/16 x 3/4	21	12	1/4	1146	470	1111	471		
15'-5"	N/A				N/A				8	1/2	6 13/16	17	9/16 x 3/4	17	9	1/4	1417	503	1385	504		
16'-5"	N/A				N/A				10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1555	535	1527	536		
17'-5"	N/A				N/A				10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1528	566	1506	567		
18'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	1674	598	1654	600		
19'-5"	N/A				N/A				8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1946	631	1927	632		
20'-5"	N/A				N/A				11	3/4	7 1/2	36	13/16 x 1	36	25	3/8	1745	662	1725	663		
21'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	22	3/8	1972	695	1953	695		
22'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2197	727	2178	728		
25'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2861	825	2844	826		
26'-5"	N/A				N/A				N/A				26	13/16 x 1	26	14	3/8	3083	858	3066	859	
27'-5"	N/A				N/A				N/A				24	13/16 x 1	24	13	3/8	3305	891	3288	892	



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
SIZE: B SCALE: AS NOTED SHEET: 52/58		

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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	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	8	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	7	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
9'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2	3	5 3/4
13'-5"	1 5/16	0.469	CP0630	445	9	1/2	15	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 13/16	8	4 1/8	6 3/16	6 13/16	8	4	6	6 13/16
14'-5"	1 7/16	0.594	CP0630	445	9	1/2	13	N/A	N/A	N/A	N/A	9	4 1/2	6 3/4	6 13/16	7	4 1/8	6 3/16	6 13/16	7	4	6	6 13/16
15'-5"	1 1/2	0.656	CP0630	446	8	5/8	18	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	9	5	7 1/2	6 7/8
16'-5"	1 5/8	0.781	CP0630	546	7	5/8	16	N/A	N/A	N/A	N/A	9	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	8	5	7 1/2	6 7/8
17'-5"	1 7/8	1.031	CP0630	546	7	5/8	16	N/A	N/A	N/A	N/A	9	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	8	5	7 1/2	6 7/8
18'-5"	2	1.156	CP0630 & CP0647	546	7	5/8	15	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	7	5	7 1/2	6 7/8
19'-5"	2 1/4	1.406	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	11	5	7 1/2	7 1/2	12	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
20'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
21'-5"	2 1/2	1.656	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
22'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	16	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	8	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
23'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	6	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
24'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A	N/A	N/A	N/A												
26'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A	N/A	N/A	N/A												



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 70 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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					
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	
6'-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	228	0	225	
7'-5"	9	3/4	4 3/8	5 3/4	N/A				8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	263	0	260	
8'-5"	8	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	298	0	295	
9'-5"	N/A				N/A				6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	333	0	330	
13'-5"	N/A				N/A				10	1/2	6 13/16	21	9/16 x 3/4	21	11	1/4	1173	472	1128	472	
14'-5"	N/A				N/A				9	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1328	507	1291	507	
15'-5"	N/A				N/A				10	5/8	6 7/8	23	11/16 x 7/8	23	13	5/16	1608	541	1574	542	
16'-5"	N/A				N/A				9	5/8	6 7/8	21	11/16 x 7/8	21	11	5/16	1746	576	1717	577	
17'-5"	N/A				N/A				9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	1709	610	1686	611	
18'-5"	N/A				N/A				8	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1859	644	1839	646	
19'-5"	N/A				N/A				11	3/4	7 1/2	36	13/16 x 1	36	23	3/8	1887	680	1862	680	
20'-5"	N/A				N/A				10	3/4	7 1/2	36	13/16 x 1	36	22	3/8	1925	713	1904	713	
21'-5"	N/A				N/A				9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2166	748	2145	749	
22'-5"	N/A				N/A				8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2404	783	2384	784	
23'-5"	N/A				N/A				8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2640	819	2621	819	
24'-5"	N/A				N/A				7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2876	854	2857	854	
25'-5"	N/A				N/A				N/A				26	13/16 x 1	26	14	3/8	3112	889	3093	890
26'-5"	N/A				N/A				N/A				24	13/16 x 1	24	13	3/8	3348	925	3329	925



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION          INSULATED ROLLING STEEL DOOR          CP0001/CP0651 SLAT NON-IMPACT RATED</b>
		SIZE: <b>B</b> SCALE: <b>AS NOTED</b> SHEET: <b>54/58</b>

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	9	2 5/8	3 15/16	5 3/4	9	3	4 1/2	5 3/4	7	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	4	2	3	5 3/4
13'-5"	1 5/16	0.469	CP0630	446	8	5/8	18	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	9	5	7 1/2	6 7/8
14'-5"	1 7/16	0.594	CP0630	546	8	5/8	17	N/A	N/A	N/A	N/A	9	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	8	5	7 1/2	6 7/8
15'-5"	1 1/2	0.656	CP0630 & CP0647	546	7	5/8	15	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	7	5	7 1/2	6 7/8
16'-5"	1 5/8	0.781	CP0630 & CP0647	546	7	5/8	14	N/A	N/A	N/A	N/A	7	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17'-5"	1 7/8	1.031	CP0630 & CP0647	548	7	3/4	18	N/A	N/A	N/A	N/A	10	5	7 1/2	7 1/2	11	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
18'-5"	2	1.156	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
19'-5"	2 1/4	1.406	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
20'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	17	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
22'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A	N/A	N/A	N/A												
24'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A	N/A	N/A	N/A												

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 80 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	3/4	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		
6'-5"	9	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	260	0	257		
7'-5"	8	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	300	0	297		
8'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	340	0	337		
13'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	5/8	6 7/8	24	11/16 x 7/8	24	13	5/16	1543	539	1494	540		
14'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	5/8	6 7/8	22	11/16 x 7/8	22	12	5/16	1693	579	1651	580		
15'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	1991	619	1953	620		
16'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	5/8	6 7/8	17	11/16 x 7/8	17	9	5/16	2129	659	2097	660		
17'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	3/4	7 1/2	36	13/16 x 1	36	21	3/8	2086	699	2047	699		
18'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	3/4	7 1/2	36	13/16 x 1	36	19	3/8	2244	738	2209	738		
19'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2251	777	2223	777		
20'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2285	815	2262	815		
21'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	31	13/16 x 1	31	17	3/8	2552	855	2530	856		
22'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2817	895	2795	896		
23'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26	13/16 x 1	26	14	3/8	3082	936	3060	936		
24'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	13/16 x 1	24	13	3/8	3346	976	3325	977		



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	8	2 5/8	3 15/16	5 3/4	8	3	4 1/2	5 3/4	6	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	5	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	4	2	3	5 3/4
8'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A	N/A	N/A	N/A	5	2 5/8	3 15/16	5 3/4	N/A	N/A	N/A	N/A	5	2 1/2	3 3/4	5 3/4
13'-5"	1 5/16	0.469	CP0630 & CP0647	546	7	5/8	16	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	7	5	7 1/2	6 7/8
14'-5"	1 7/16	0.594	CP0630 & CP0647	546	7	5/8	14	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15'-5"	1 1/2	0.656	CP0630 & CP0647	548	6	3/4	18	N/A	N/A	N/A	N/A	9	5	7 1/2	7 1/2	10	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
16'-5"	1 5/8	0.781	CP0630 & CP0647	548	6	3/4	17	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	9	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
17'-5"	1 3/4	0.906	CP0630 & CP0647	648	6	3/4	16	N/A	N/A	N/A	N/A	8	5	7 1/2	7 1/2	7	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
18'-5"	1 7/8	1.031	CP0630 & CP0647	648	6	3/4	15	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
19'-5"	2 1/8	1.281	CP0630 & CP0647	648	6	3/4	15	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A	N/A	N/A	N/A
20'-5"	2 1/4	1.406	CP0630 & CP0647	648	6	3/4	14	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	13	N/A	N/A	N/A	N/A	7	5	7 1/2	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A	N/A	N/A	N/A												

CP0001/CP0651 - 0.0405/0.0220 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)	
	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
5'-5"	10	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	8	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	248	0	244
6'-5"	8	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	293	0	289
7'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	338	0	334
8'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	383	0	379
13'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	19	11/16 x 7/8	19	10	5/16	1913	607	1859	608
14'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2057	652	2012	653
15'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2392	699	2333	698
16'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	32	13/16 x 1	32	17	3/8	2530	743	2478	743
17'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	30	13/16 x 1	30	16	3/8	2674	787	2628	788
18'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2820	832	2779	832
19'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	3/4	7 1/2	29	13/16 x 1	29	15	3/8	2777	875	2743	875
20'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	2932	919	2902	920
21'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	2938	962	2914	963
22'-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	13/16 x 1	25	13	3/8	3231	1008	3207	1008



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ	Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: <b>WIND LOAD CONFIGURATION</b> <b>INSULATED ROLLING STEEL DOOR</b> <b>CP0001/CP0651 SLAT NON-IMPACT RATED</b>

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 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
5'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				7	2 5/8	3 15/16	5 3/4	7	3	4 1/2	5 3/4	6	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2	3	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				5	2 5/8	3 15/16	5 3/4	N/A				6	2 1/2	3 3/4	5 3/4
14'-5"	1 1/2	0.656	CP0630 & CP0647	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			
15'-5"	1 7/16	0.594	CP0630 & CP0647	648	6	3/4	15	N/A				7	5	7 1/2	7 1/2	5	6 5/8	9 15/16	7 1/2	N/A			
16'-5"	1 1/2	0.656	CP0630 & CP0647	648	5	3/4	14	N/A				7	5	7 1/2	7 1/2	N/A				N/A			
17'-5"	1 5/8	0.781	CP0630 & CP0647	648	5	3/4	13	N/A															
18'-5"	1 3/4	0.906	CP0630 & CP0647	648	5	3/4	13	N/A															
19'-5"	1 7/8	1.031	CP0630 & CP0647	648	5	3/4	12	N/A															
20'-5"	2 1/8	1.281	CP0630 & CP0647	648	5	3/4	12	N/A															

CP0001/CP0651 - 0.0405/0.0220 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 (-)
5'-5"	9	3/4	4 3/8	5 3/4	N/A				7	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	275	0	271
6'-5"	N/A				N/A				6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	325	0	321
7'-5"	N/A				N/A				5	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	375	0	371
14'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2261	725	2195	725
15'-5"	N/A				N/A				7	3/4	7 1/2	27	13/16 x 1	27	15	3/8	2976	778	2909	778
16'-5"	N/A				N/A				7	3/4	7 1/2	25	13/16 x 1	25	13	3/8	3274	828	3211	828
17'-5"	N/A				N/A				N/A		24	13/16 x 1	24	13	3/8	3371	877	3316	877	
18'-5"	N/A				N/A				N/A		23	13/16 x 1	23	12	3/8	3486	926	3437	926	
19'-5"	N/A				N/A				N/A		22	13/16 x 1	22	12	3/8	3611	975	3568	976	
20'-5"	N/A				N/A				N/A		23	13/16 x 1	23	12	3/8	3518	1023	3482	1024	



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	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED
DWG NO: ES-16-65-CIW		

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615
A	REMOVED SPECIFIC ENDLOCK, ADD INNER ANGLE NOTE	12/13/17	CJR	1663
B	REVISED BOTTOM BAR DETAIL; HOOD SUPPORT UPDATE	02/19/20	MAN	2027

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 120 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	344*	N/A	3/8	24	N/A				6	2 5/8	3 15/16	5 3/4	6	3	4 1/2	5 3/4	5	2	3	5 3/4
6'-5"	N/A	N/A	N/A	344*	N/A	3/8	24	N/A				5	2 5/8	3 15/16	5 3/4	N/A				5	2 1/2	3 3/4	5 3/4
7'-5"	N/A	N/A	N/A	344*	N/A	3/8	23	N/A				4	2 5/8	3 15/16	5 3/4	N/A				5	2 1/2	3 3/4	5 3/4
14'-5"	1 1/2	0.656	CP0630 & CP0647	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			

CP0001/CP0651 - 0.0405/0.0220 Minimum Thickness Galvanized or Stainless Steel - 120 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)
	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						
5'-5"	N/A				N/A				6	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	330	0	325		
6'-5"	N/A				N/A				5	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	390	0	385		
7'-5"	N/A				N/A				4	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	450	0	445		
14'-5"	N/A				N/A				8	3/4	7 1/2	15	13/16 x 1	15	15	3/8	2956	871	2881	871		



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	P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED