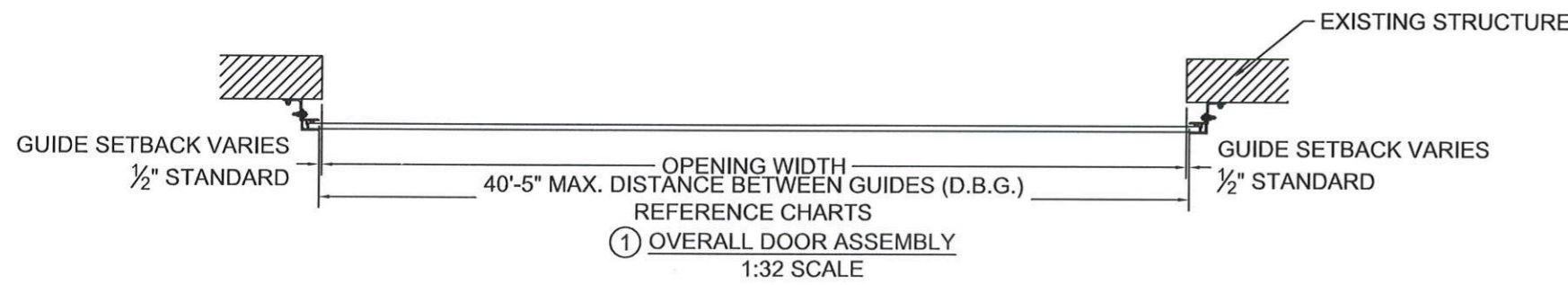
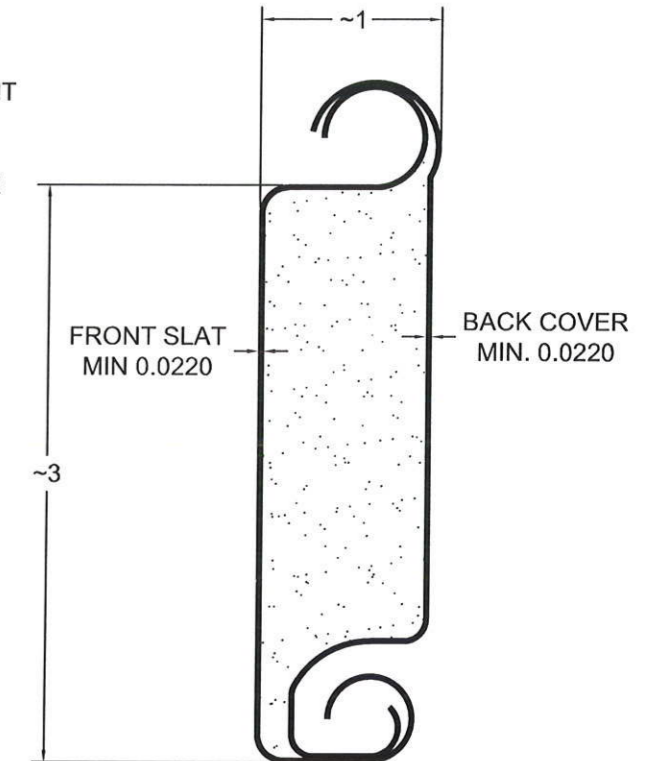
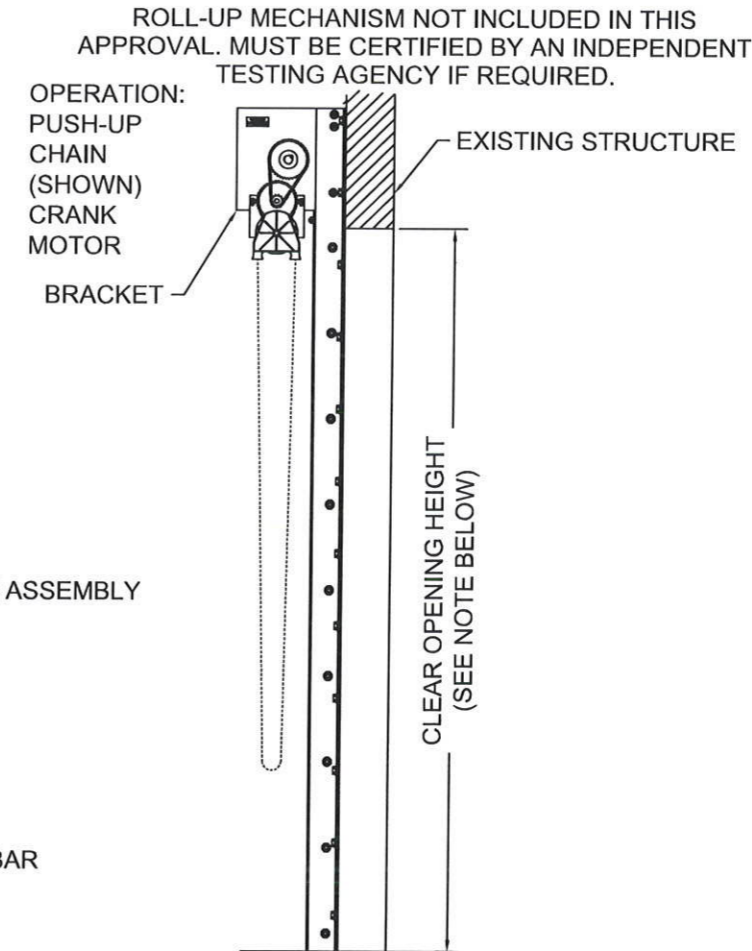
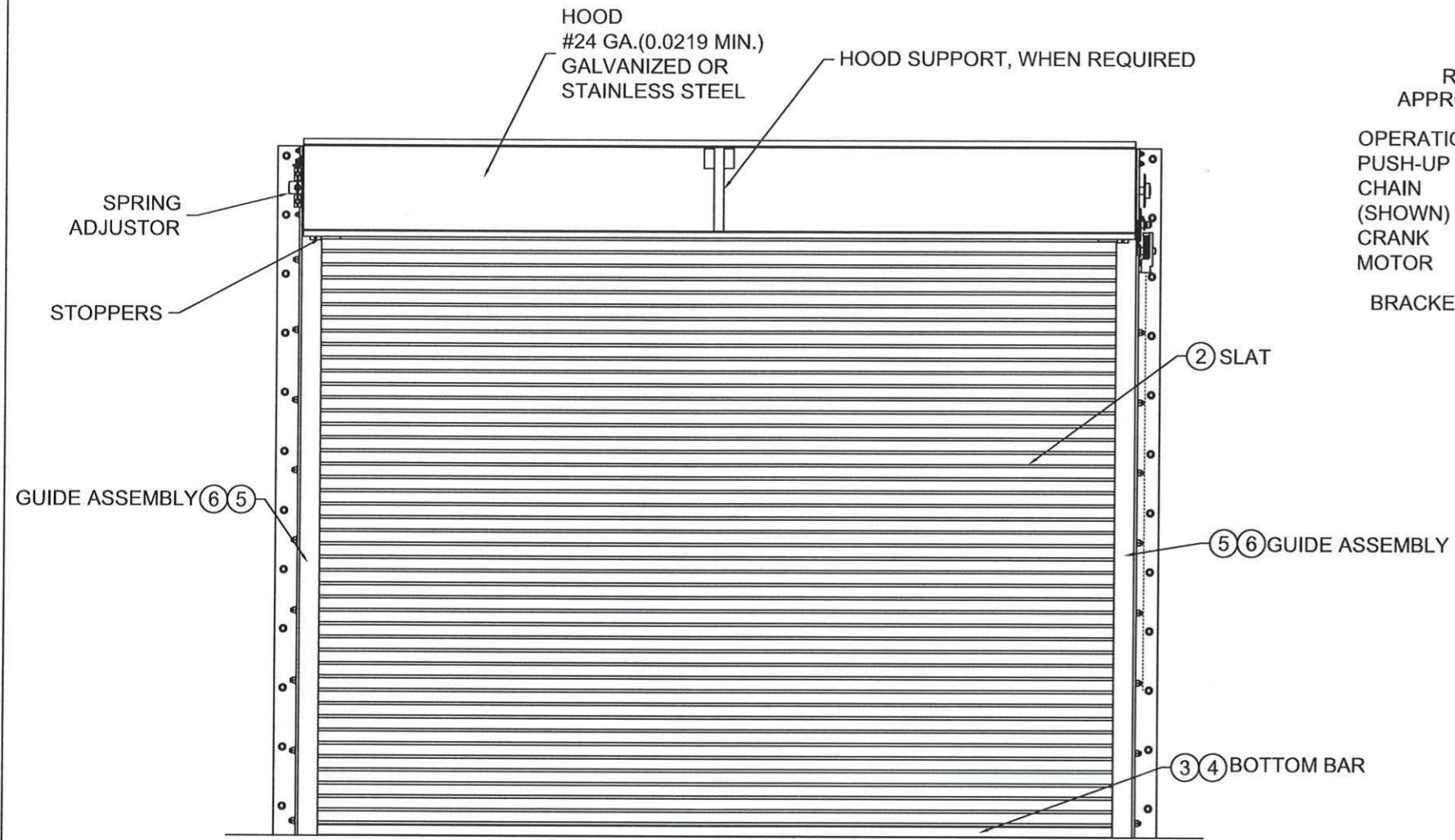


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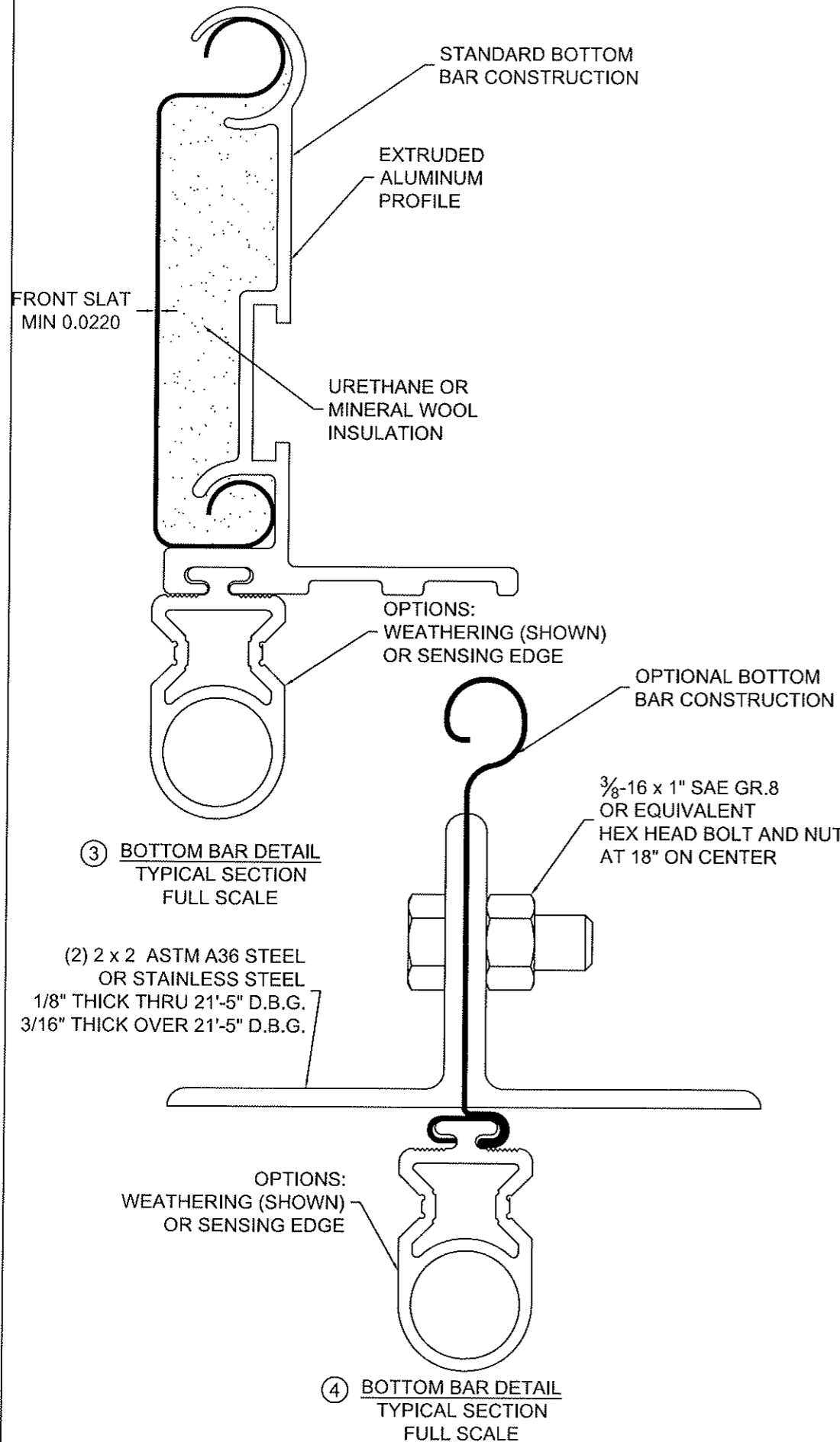
NOTE: WIND LOADS SPECIFIED IN TABLES ARE ACCEPTABLE FOR ANY C.O.H.. FOR GREATER THAN 30 FT, C.O.H., MOUNTING CONDITIONS SHALL BE DETERMINED ON A SITE SPECIFIC BASIS.

② SLAT DETAIL 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



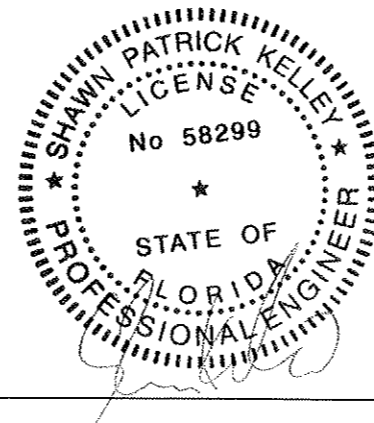
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: <b>AS NOTED</b>
DWG NO:			<b>ES-16-65-CIW</b>		

L'TR	REVISION	DATE	BY	E.C.O.
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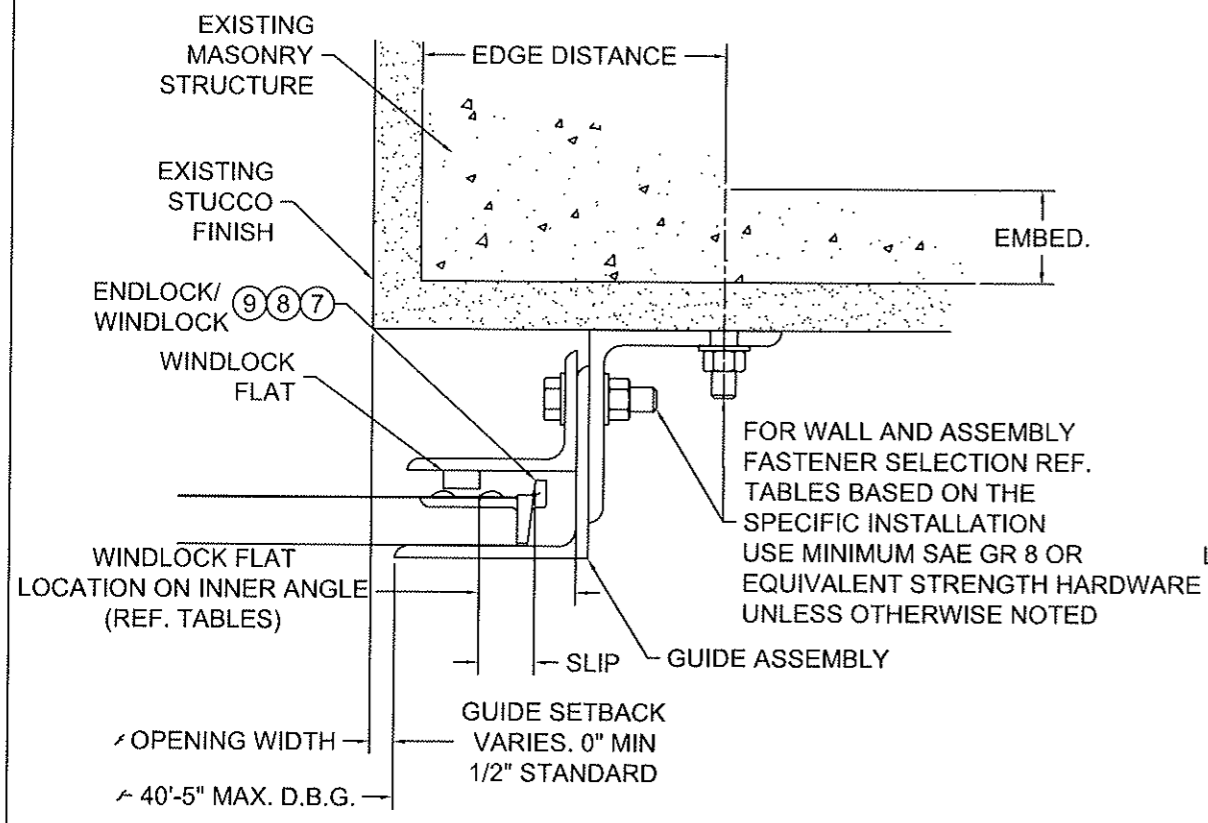
**GENERAL NOTES:**

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



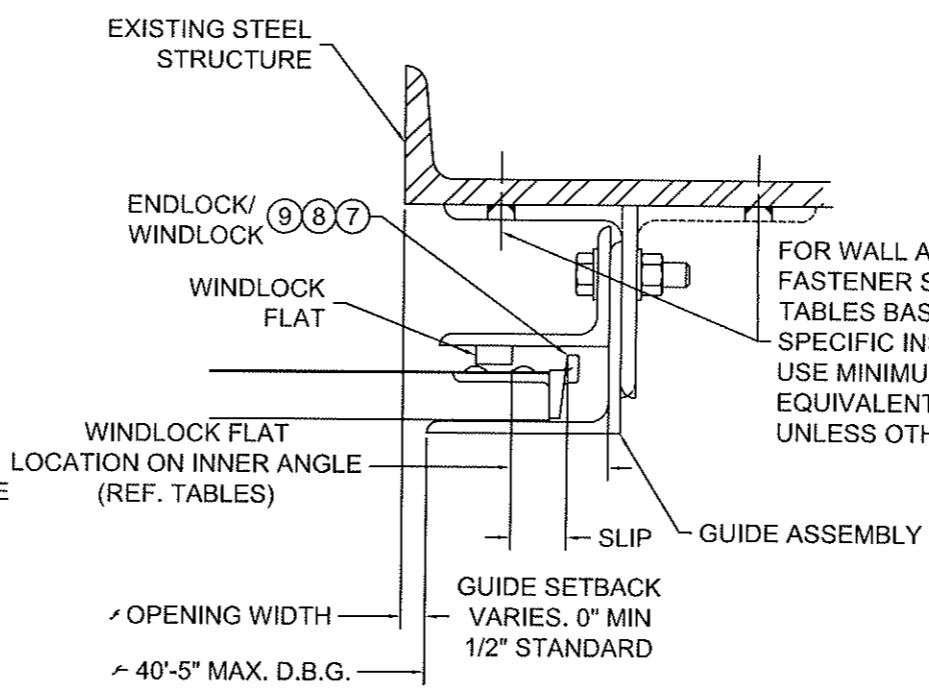
	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED
			DWG NO: ES-16-65-CIW		

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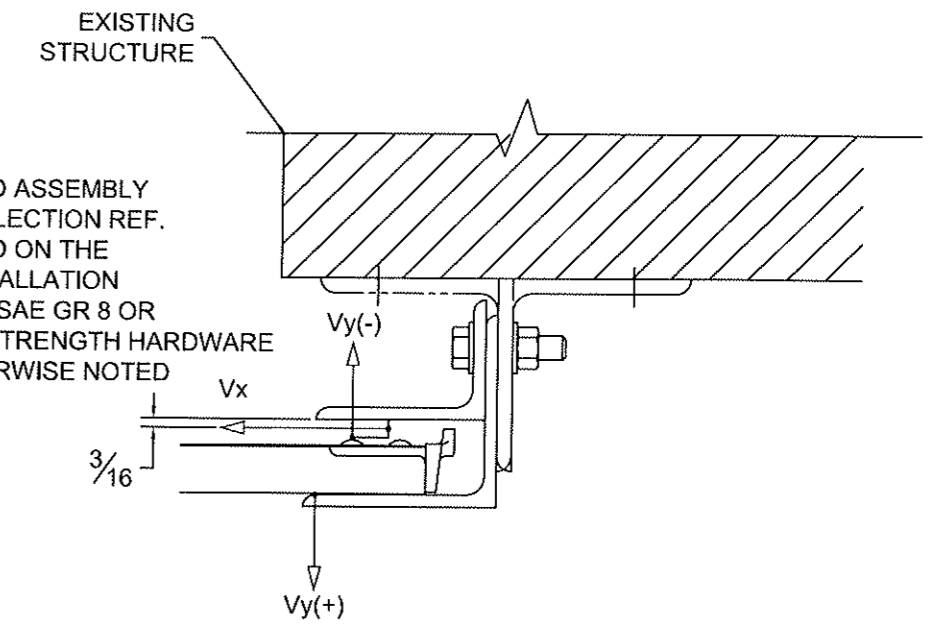


NOTE:  
THROUGH BOLTING TO FILLED BLOCK REQUIRES THE USE  
OF 1/4" THICK STEEL OR STAINLESS STEEL CRUSH PLATE

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



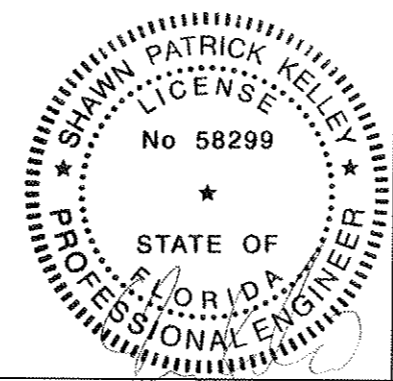
⑥ GUIDE ASSEMBLY  
STEEL STRUCTURE  
(Z-GUIDE OR E-GUIDE)



NOTE:

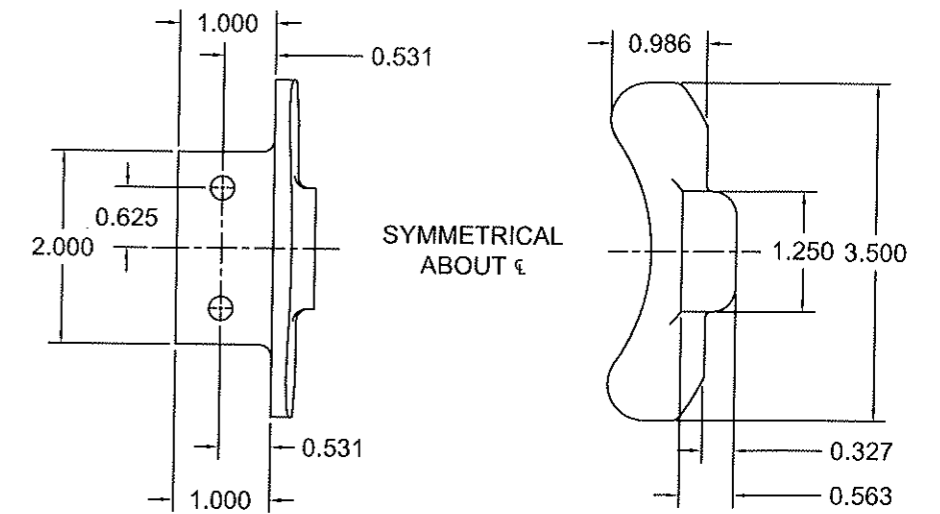
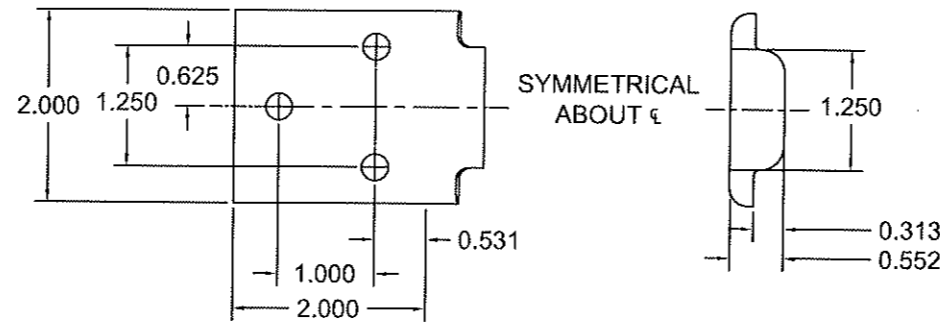
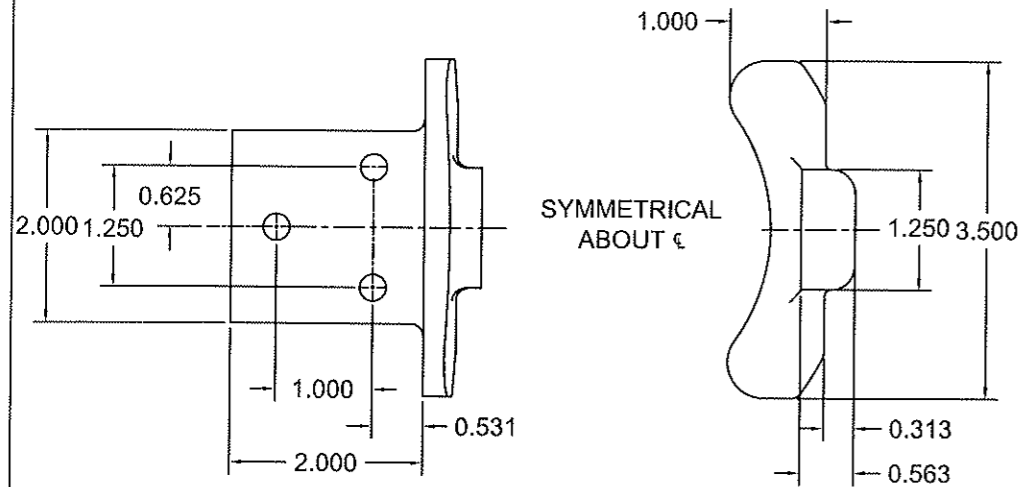
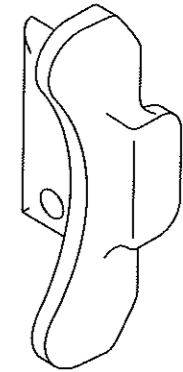
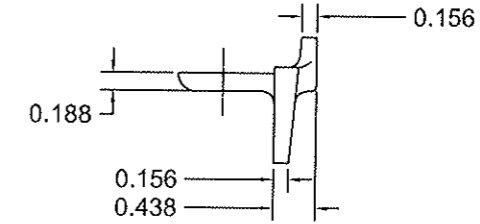
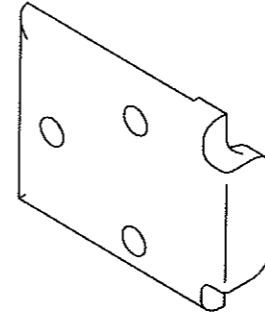
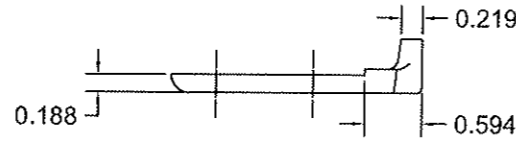
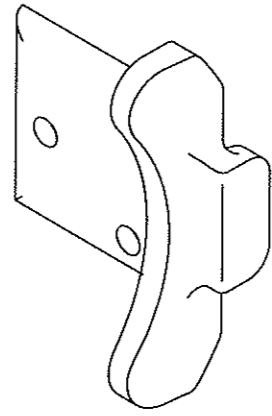
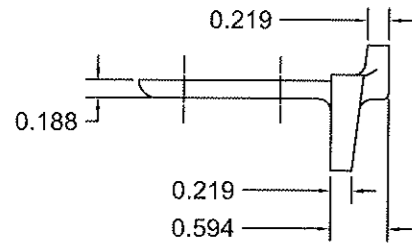
1. Vx & Vy ARE HORIZ. AND VERT. COMPONENTS OF THE REACTION,  
RESPECTIVELY, RESULTING FROM WIND LOADS ON THE ROLL-UP DOOR.  
THE EXISTING STRUCTURE SHALL BE CAPABLE OF RESISTING Vx & Vy  
FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE  
ECCENTRICITIES OF THE FORCES.

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



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	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				

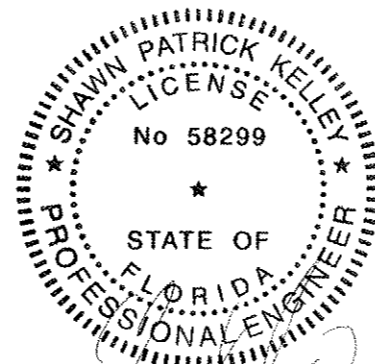
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⑦ CP0630 ENDLOCK / WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH  
 ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE

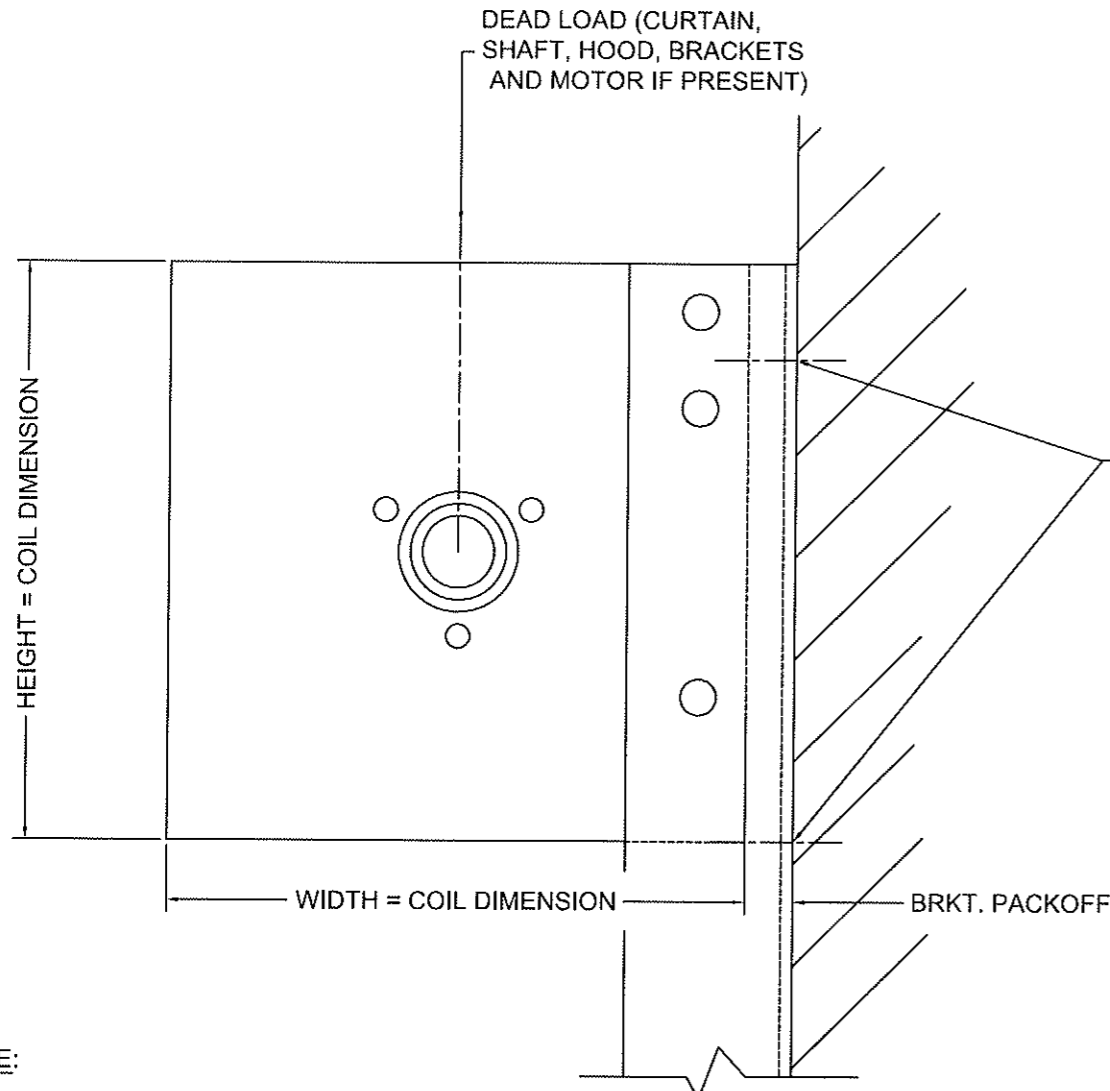
⑧ CP0647 WINDLOCK DETAIL  
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR  
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN  
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING  
 1/2 SCALE

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

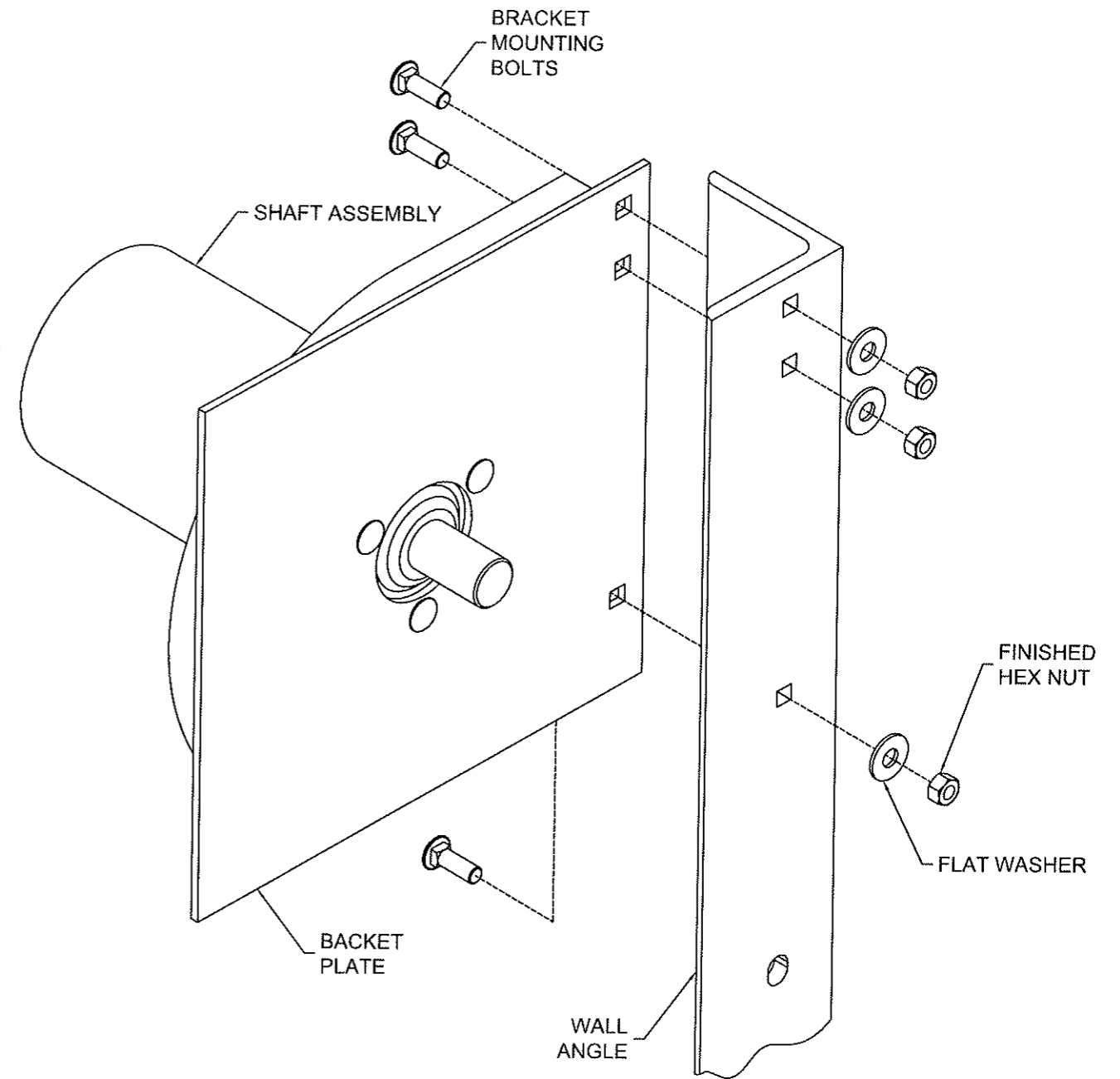


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	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED	DRAWN BY: <b>TJE</b>	SIZE: <b>B</b>	SCALE: AS NOTED
DWG NO:			<b>ES-16-65-CIW</b>	

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/09/14	TJE	1615



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

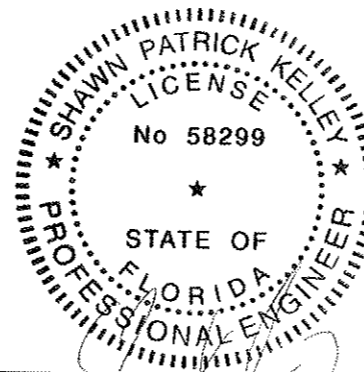


**NOTE:**

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".

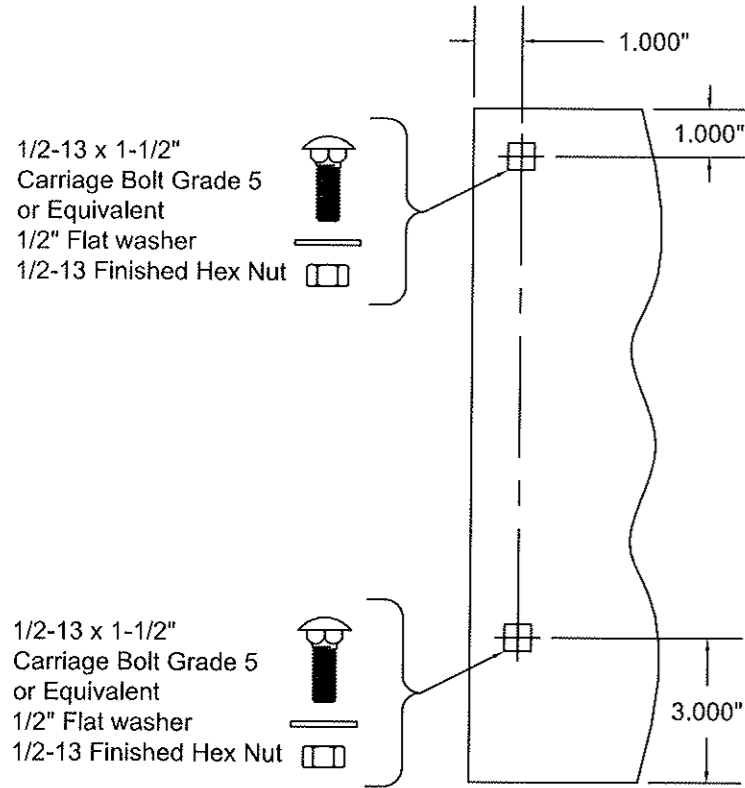
**NOTE:**

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



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*	ORIGINAL ISSUE	10/09/14	TJE	1615



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

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

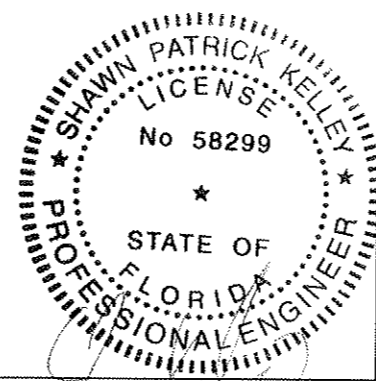
1/2-13 x 1-1/2"  
Carriage Bolt Grade 5  
or Equivalent  
1/2" Flat washer  
1/2-13 Finished Hex Nut

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

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

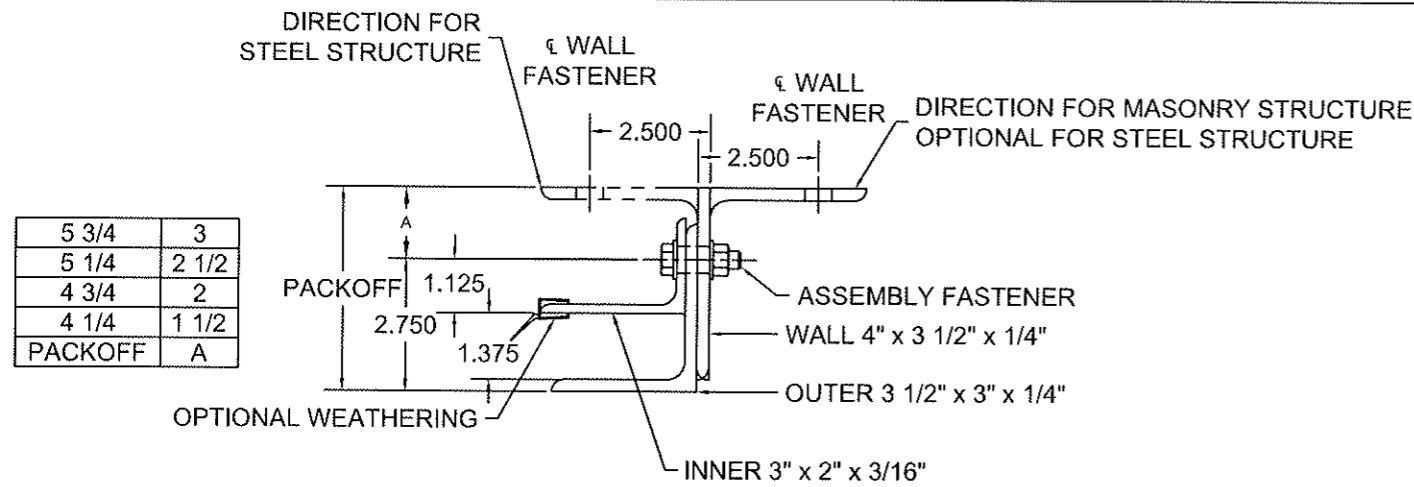
**THRU 10"Ø SHAFT ASSEMBLY**  
**17" AND LARGER COIL DIMENSION**  
**MIN. THICKNESS 0.240" ASTM A36**  
**OR ASTM A480 STAINLESS STEEL,**  
**TYPES 304 OR 316, MINIMUM 36 KSI YIELD STRENGTH**  
SCALE: 1-1/2" = 1'-0"

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



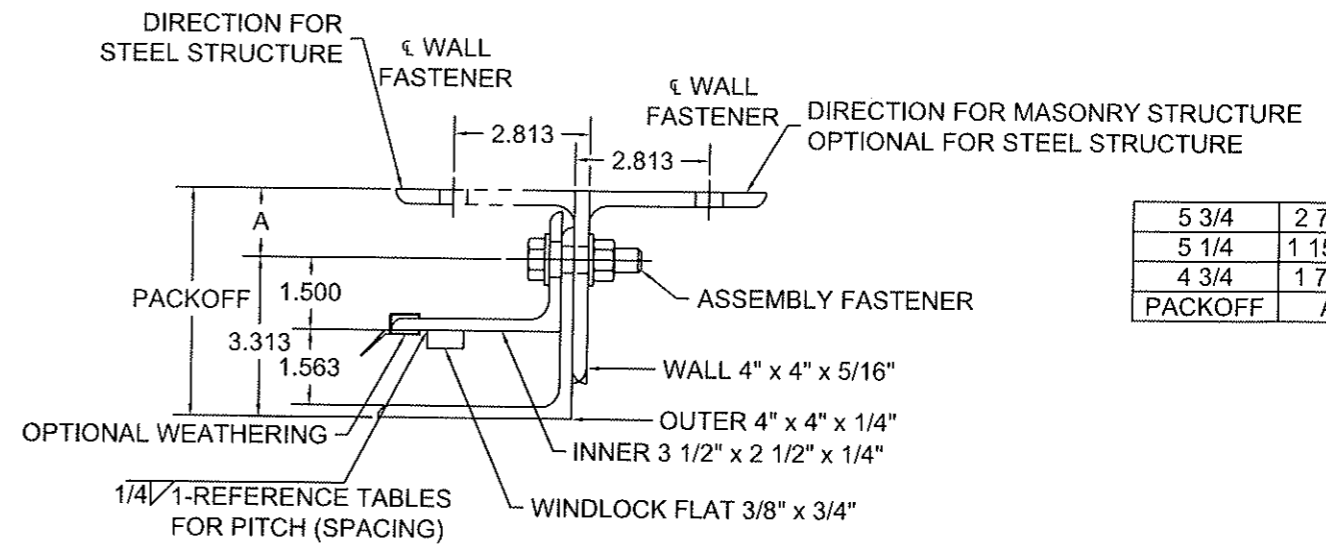
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	TITLE: <b>WIND LOAD CONFIGURATION</b> <b>INSULATED ROLLING STEEL DOOR</b> <b>CP0001/CP0651 SLAT NON-IMPACT RATED</b>	DRAWN BY: <b>TJE</b> DWG NO: <b>ES-16-65-CIW</b>	SIZE: <b>B</b> SCALE: <b>AS NOTED</b>

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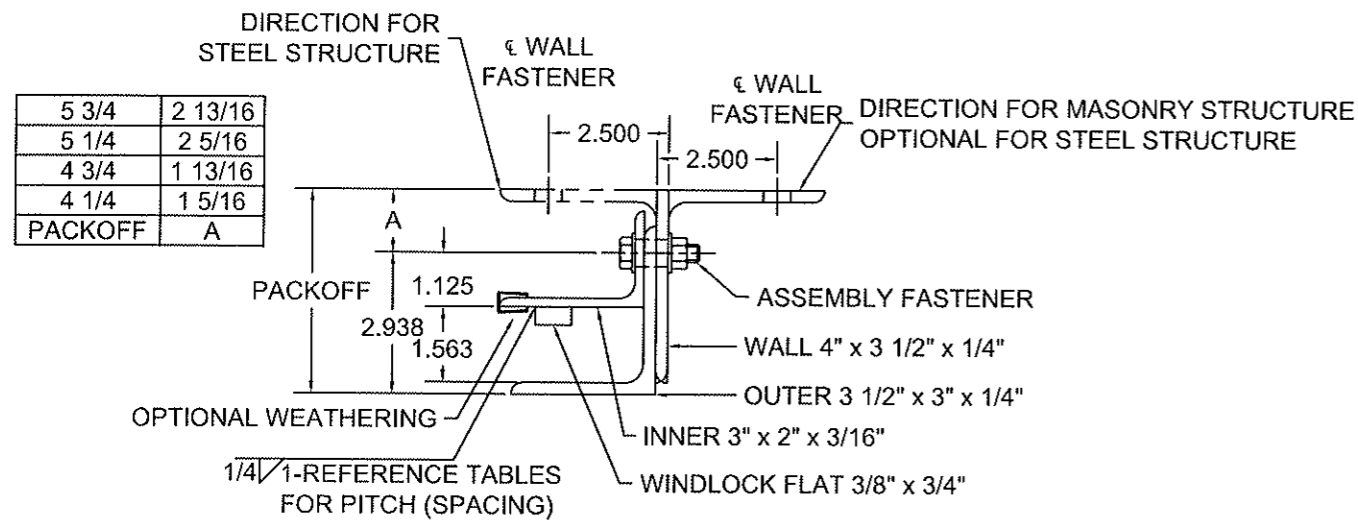
5 3/4	3
5 1/4	2 1/2
4 3/4	2
4 1/4	1 1/2
PACKOFF	A

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



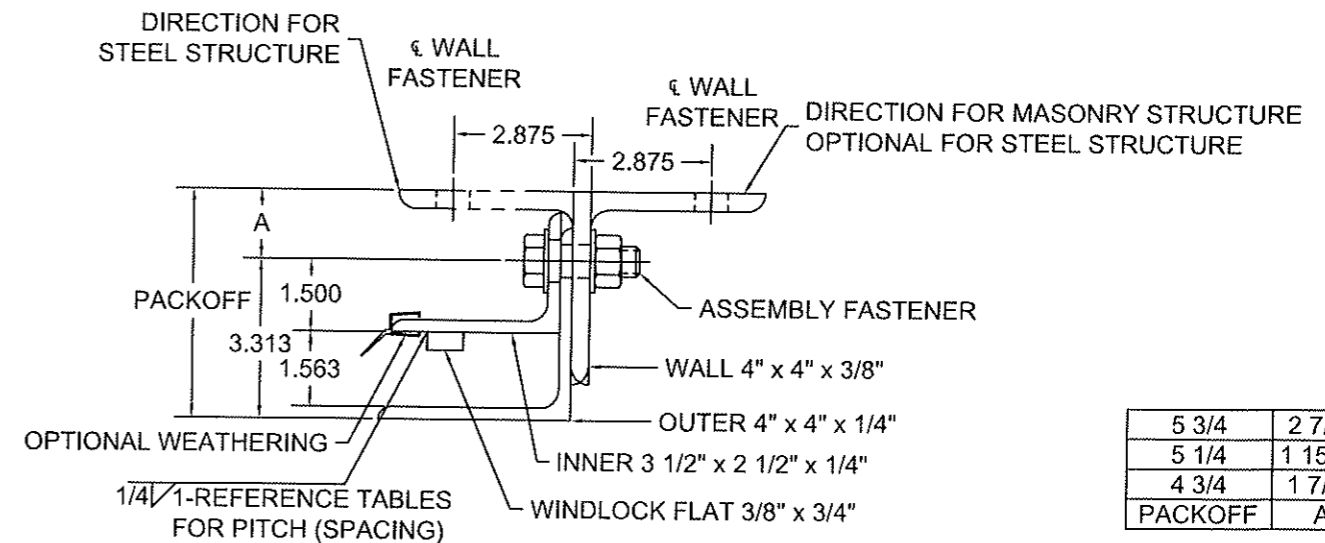
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A

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



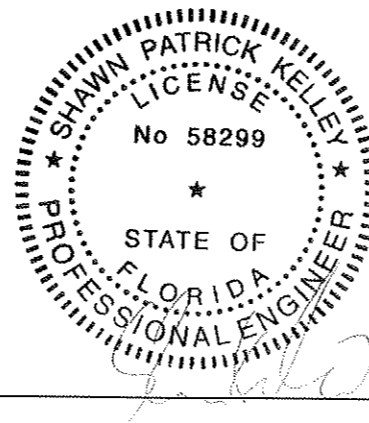
5 3/4	2 13/16
5 1/4	2 5/16
4 3/4	1 13/16
4 1/4	1 5/16
PACKOFF	A

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



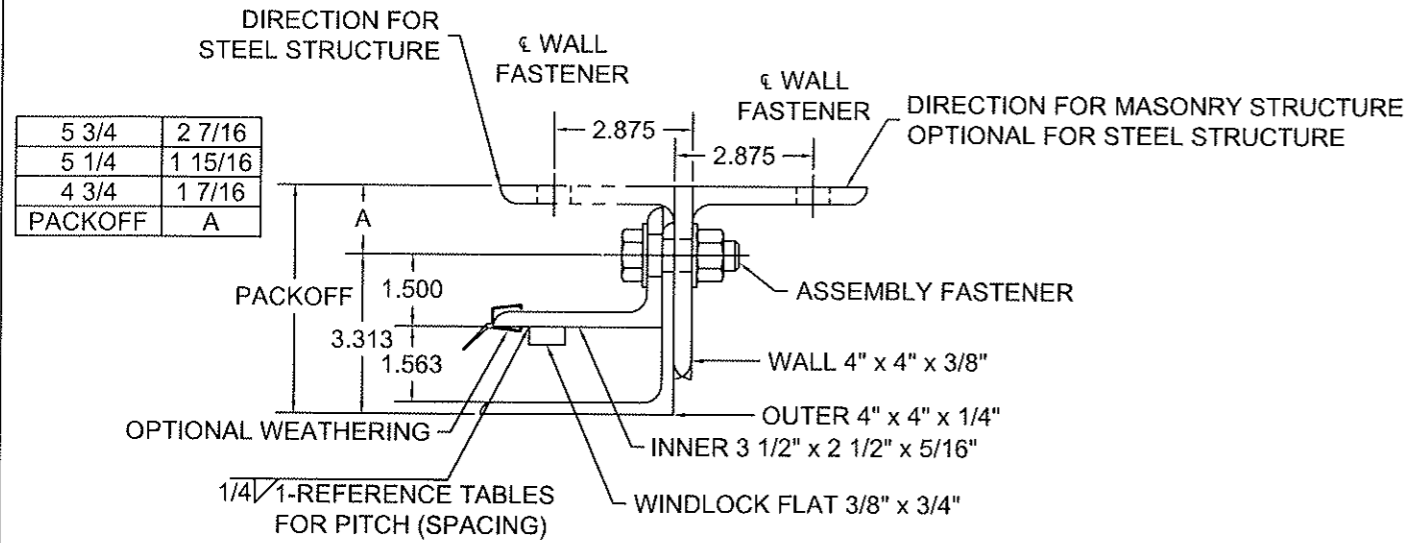
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A

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

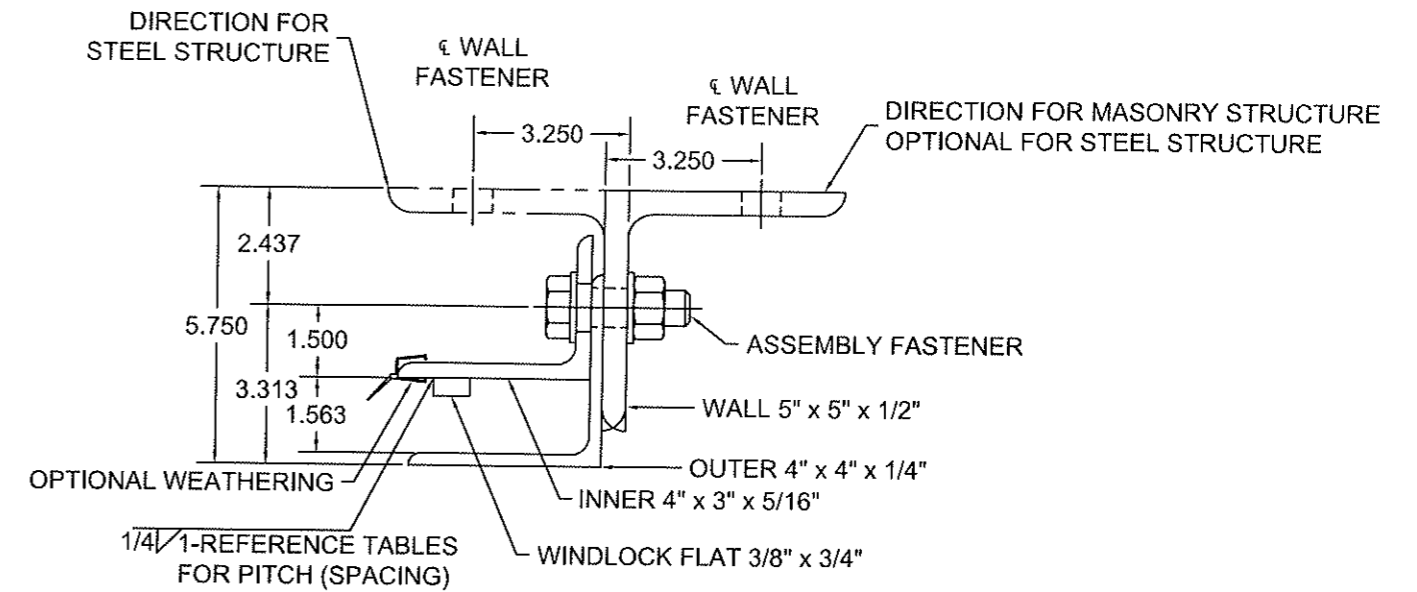


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DWG NO:			<b>ES-16-65-CIW</b>		

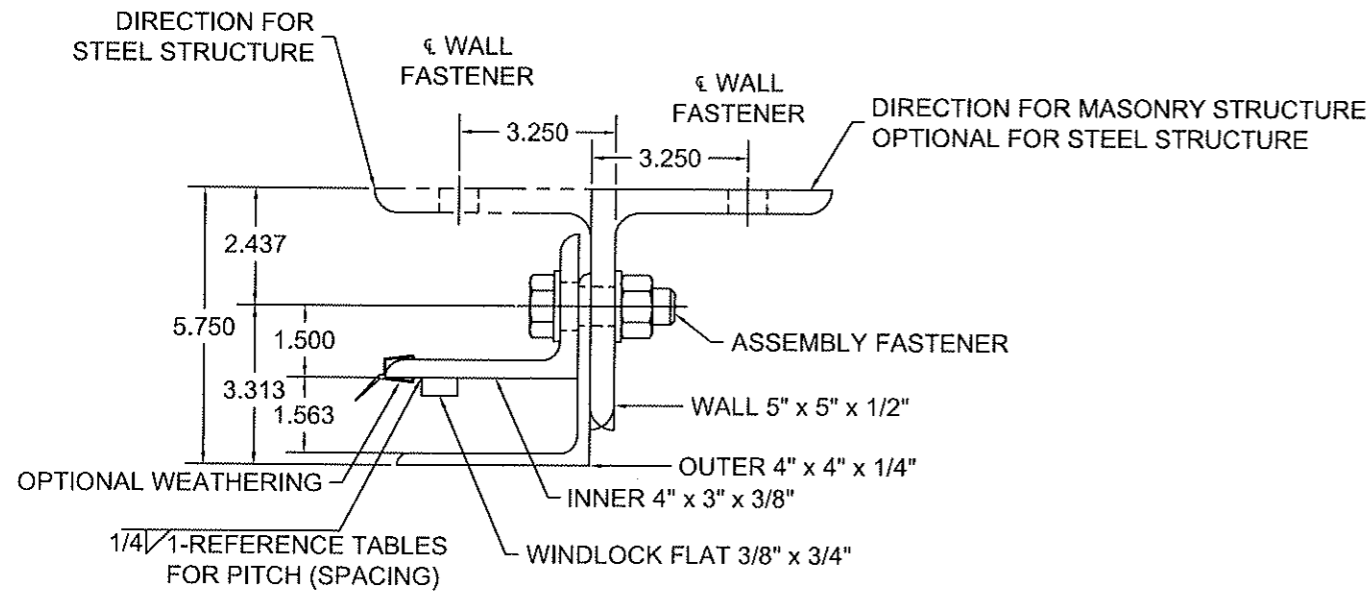
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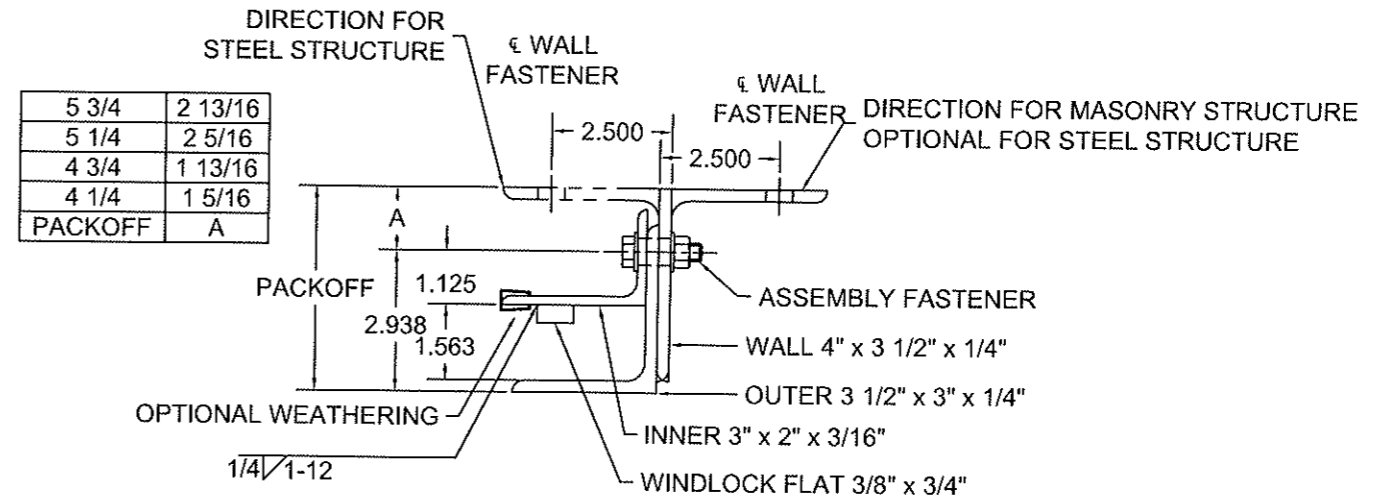
GUIDE ASSEMBLY TYPE 546  
SCALE: 3" = 1'-0"



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

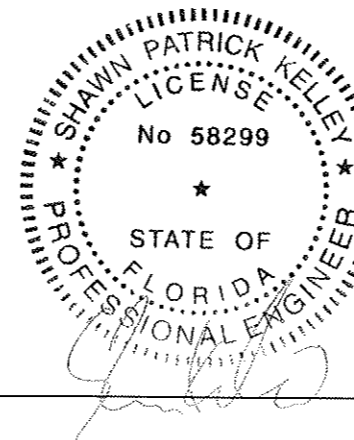


GUIDE ASSEMBLY TYPE 648  
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE DC1  
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



**CORNELL**  
SAFE AND SECURE

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800 TULIP DRIVE  
GASTONIA, NC  
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E: ADS@CORNELLIRON.COM

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

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

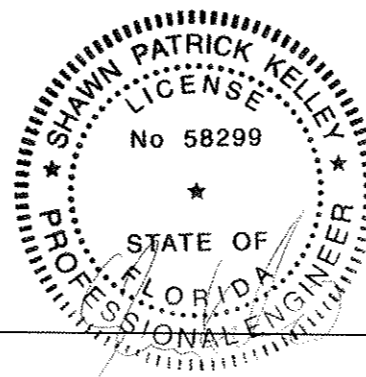
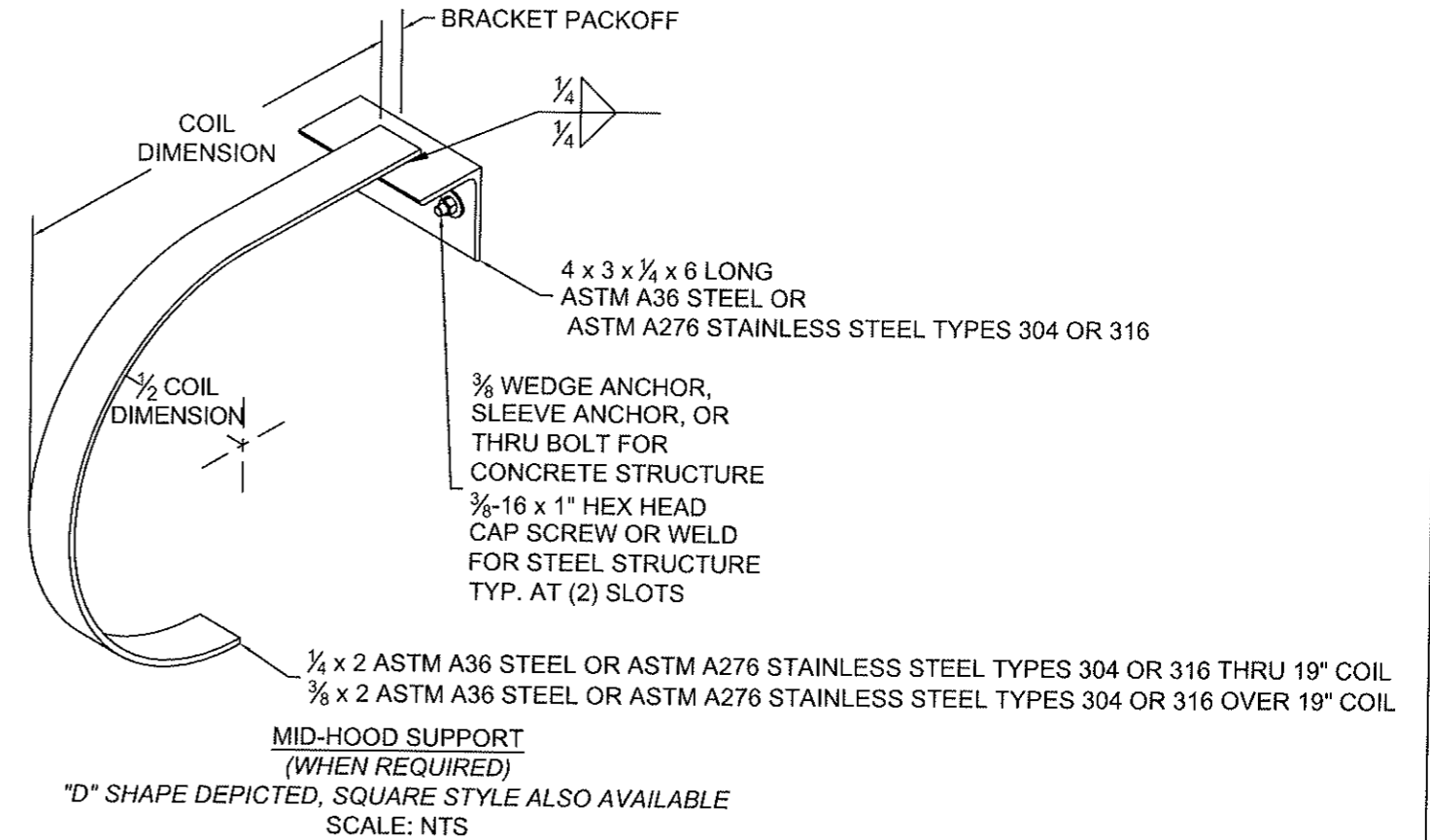
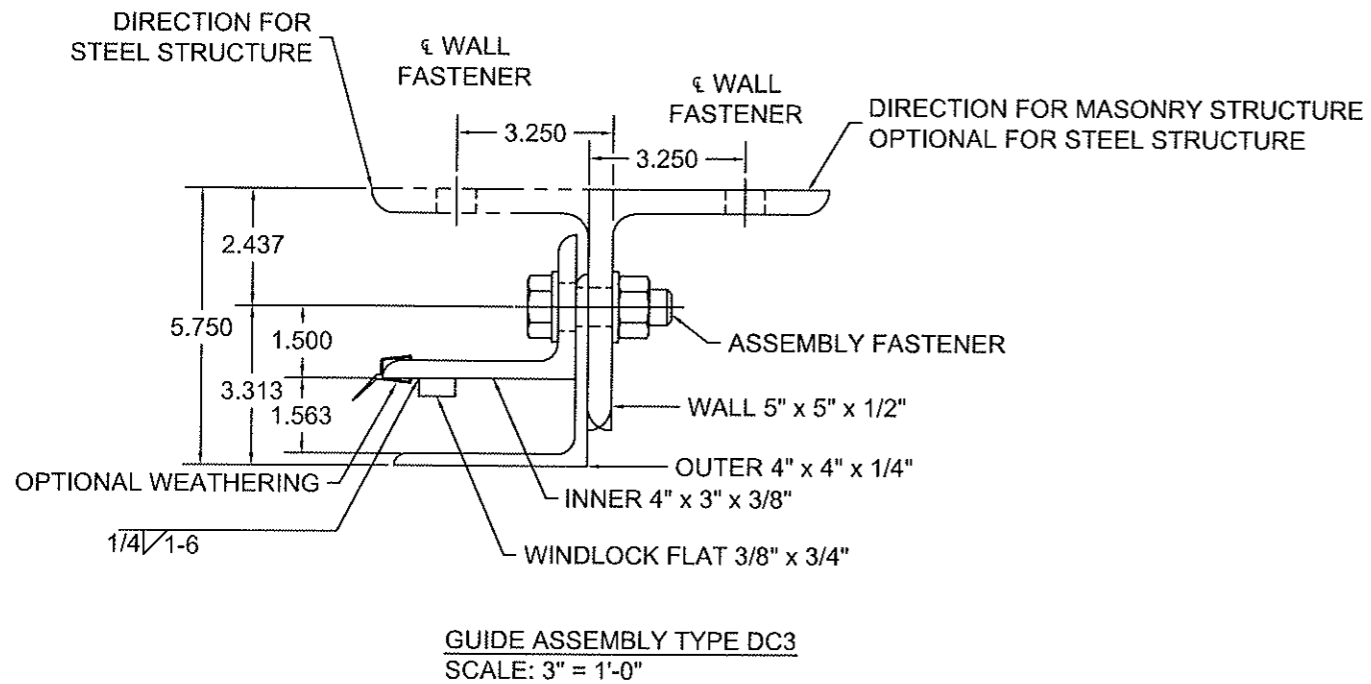
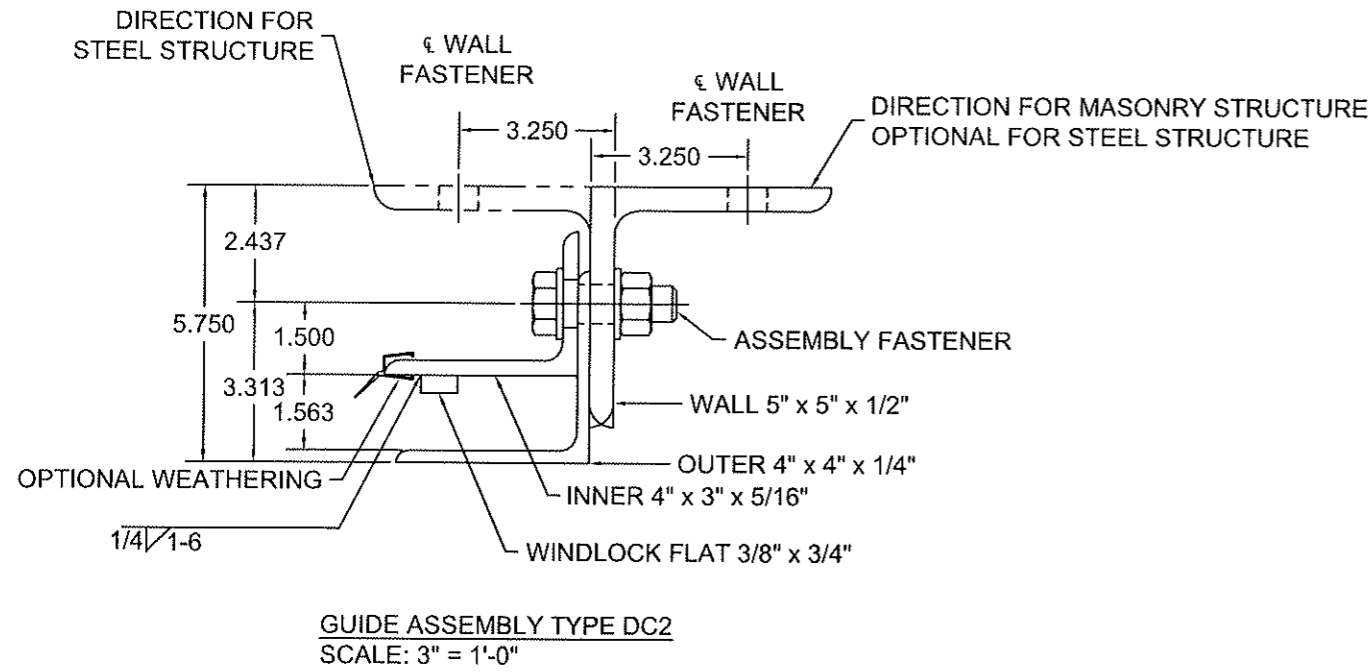
TITLE: WIND LOAD CONFIGURATION  
INSULATED ROLLING STEEL DOOR  
CP0001/CP0651 SLAT NON-IMPACT RATED

DRAWN BY: TJE  
SIZE: B  
SCALE: AS NOTED  
SHEET: 8/21

DWG NO: ES-16-65-CIW



L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/09/14	TJE	1615



	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		Unless otherwise specified, dimensions are in inches & tolerances are:  0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG		
	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT NON-IMPACT RATED		DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED
			DWG NO: ES-16-65-CIW		





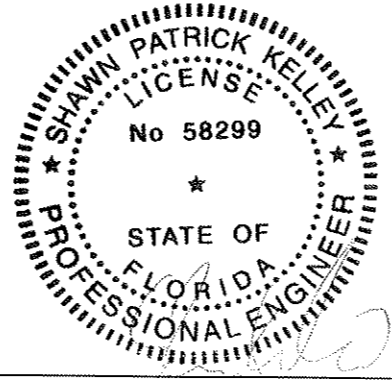


CP001/CP0651 - 0.0235/0.0220 Minimum Thickness Galvanized or Stainless Steel - 40 PSF

Dwg Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Cracked Concrete Minimum 3,000 PSI Compressive Strength												Steel (Wall anchors are the same diameter as assembly fasteners)								Superimposed Loads			
								Hit/Kit Bolt 3			Simpson Wedge All			Red Head Tru Bolt			Powers Wedge Bolt			Hit/Kit Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hit/Kit Bolt TZ			Simpson Strong-Bolt 2			ITW Redhead Tru-Bolt			Welded		Through Bolt		Tapped													
								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	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	Max O.C.	Embed	Min. Thickness	Vs (H)	Vy (H)	Vz (L)	Vy (L)									
5'-5"	N/A	N/A	CP0407	344"	N/A	3/8	24	36	2 3/8	4	5 3/4	10	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	9	1/2	3 1/2	5 3/4	12	5/8	3/4	2 1/2	5 3/4	15	3/4	5 3/4	5 3/4	16	1/2	3 1/2	4	5 3/4	36	3/16	0	110	0	109												

CP001/CP0651 - 0.0235/0.0220 Minimum Thickness Galvanized or Stainless Steel - 50 PSF

Dwg Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Cracked Concrete Minimum 3,000 PSI Compressive Strength												Steel (Wall anchors are the same diameter as assembly fasteners)								Superimposed Loads			
								Hit/Kit Bolt 3			Simpson Wedge All			Red Head Tru Bolt			Powers Wedge Bolt			Hit/Kit Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hit/Kit Bolt TZ			Simpson Strong-Bolt 2			ITW Redhead Tru-Bolt			Welded		Through Bolt		Tapped													
								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	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	Max O.C.	Embed	Min. Thickness	Vs (H)	Vy (H)	Vz (L)	Vy (L)									
5'-5"	N/A	N/A	CP0407	344"	N/A	3/8	24	36	2 3/8	4	5 3/4	10	2 5/8	3 15/16	5 3/4	19	3	4 1/2	5 3/4	9	1/2	3 1/2	5 3/4	12	5/8	3/4	2 1/2	5 3/4	15	3/4	5 3/4	5 3/4	16	1/2	3 1/2	4	5 3/4	36	3/16	0	110	0	109												



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

TITLE: WIND LOAD CONFIGURATION  
 INSULATED ROLLING STEEL DOOR  
 CP001/CP0651 SLAT NON-IMPACT RATED

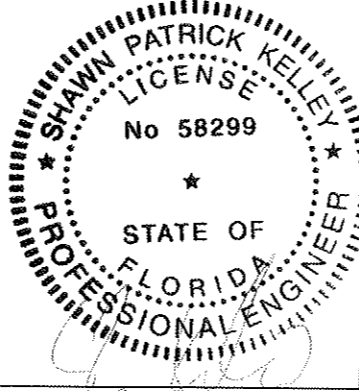
DRAWN BY: TJE  
 SIZE: B  
 SCALE: AS NOTED  
 SHEET: 13/21  
 DWG NO: ES-16-65-CIW



L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/09/14	TJE	1615

DRG UP To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)										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 Wedge-All			Red Head Tri-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hilti Kwik Bolt T2			Simpson Strong-Bolt 2			ITW Redhead Tri-Bolt			Welded		Through Bolt		Tapped		Min. Thickness	Vy (+)	Vy (-)	Vy (+)	Vy (-)		
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	33	3	4 1/2	5 3/4	25	2	3	5 3/4	18	3/8	2 1/2	5 3/4	17	3/8	2 5/8	5 3/4	32	3/8	2 5/16	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

DRG UP To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)										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 Wedge-All			Red Head Tri-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hilti Kwik Bolt T2			Simpson Strong-Bolt 2			ITW Redhead Tri-Bolt			Welded		Through Bolt		Tapped		Min. Thickness	Vy (+)	Vy (-)	Vy (+)	Vy (-)		
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	22	3	4 1/2	5 3/4	20	2	3	5 3/4	12	3/8	2 1/2	5 3/4	8	3/8	2 5/8	5 3/4	21	3/8	2 5/16	4	5 3/4	36	3/8	2	5	5 3/4	36	7/16 x 5/8	36	36	3/16	0	58	0	58



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

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CP0001/CP0651 SLAT NON-IMPACT RATED

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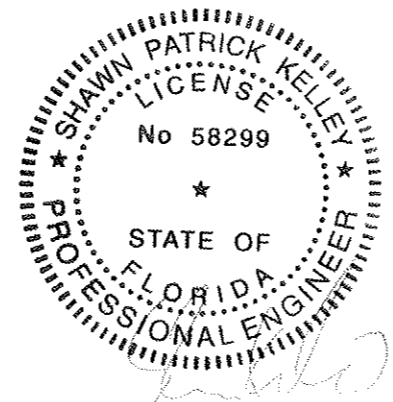


L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/09/14	TJE	1615

CP001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																																											
DBG Up To	Windlock Flat Location	Sip	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU					Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads													
								Hilti Kwik Bolt 3			Simpson Wedge All			Red Head Tru-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt		Welded		Through Bolt	Tapped	Vx (ft)	Vy (ft)	Vz (ft)	Vy (ft)								
								Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.					Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.
5'-5"	N/A	N/A	CP0407	364*	N/A	3/8	24	16	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	8	3/4	3 1/4	5 3/4	10	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	155	0	183

CP001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 65 PSF																																											
DBG Up To	Windlock Flat Location	Sip	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU					Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads													
								Hilti Kwik Bolt 3			Simpson Wedge All			Red Head Tru-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt		Welded		Through Bolt	Tapped	Vx (ft)	Vy (ft)	Vz (ft)	Vy (ft)								
								Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.					Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.
5'-5"	N/A	N/A	CP0407	364*	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	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	175	0	177

CP001/CP0651 - 0.0296/0.0220 Minimum Thickness Galvanized or Stainless Steel - 70 PSF																																											
DBG Up To	Windlock Flat Location	Sip	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU					Steel (Wall anchors are the same diameter as assembly fasteners)					Superimposed Loads													
								Hilti Kwik Bolt 3			Simpson Wedge All			Red Head Tru-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt		Welded		Through Bolt	Tapped	Vx (ft)	Vy (ft)	Vz (ft)	Vy (ft)								
								Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.					Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.
5'-5"	N/A	N/A	CP0407	364*	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	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	189	0	190



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