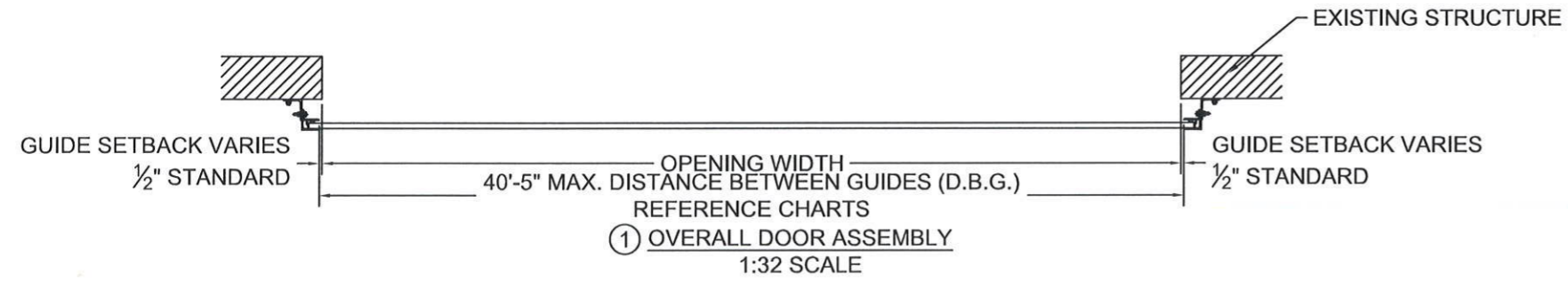
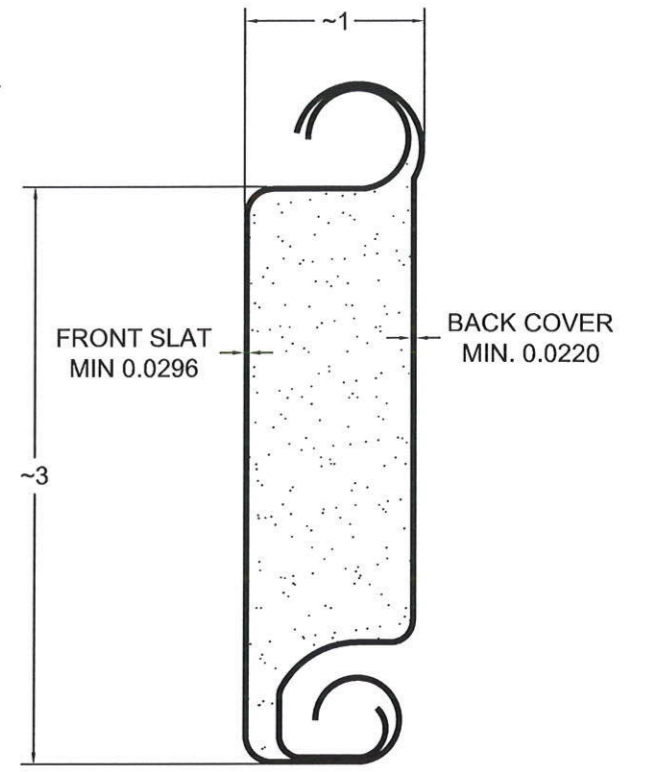
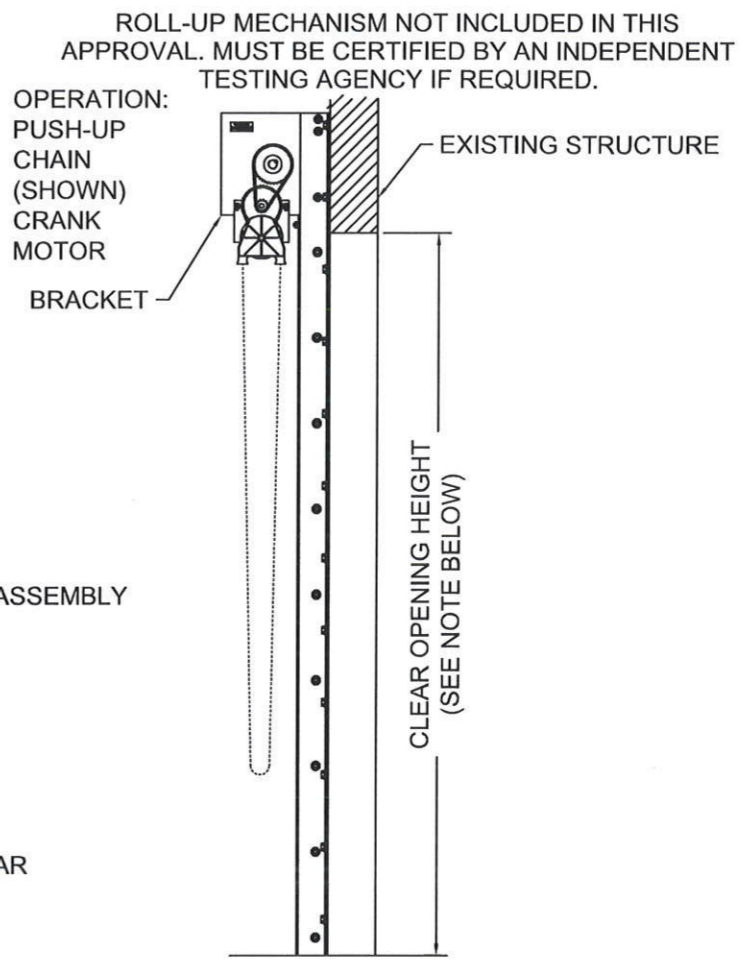
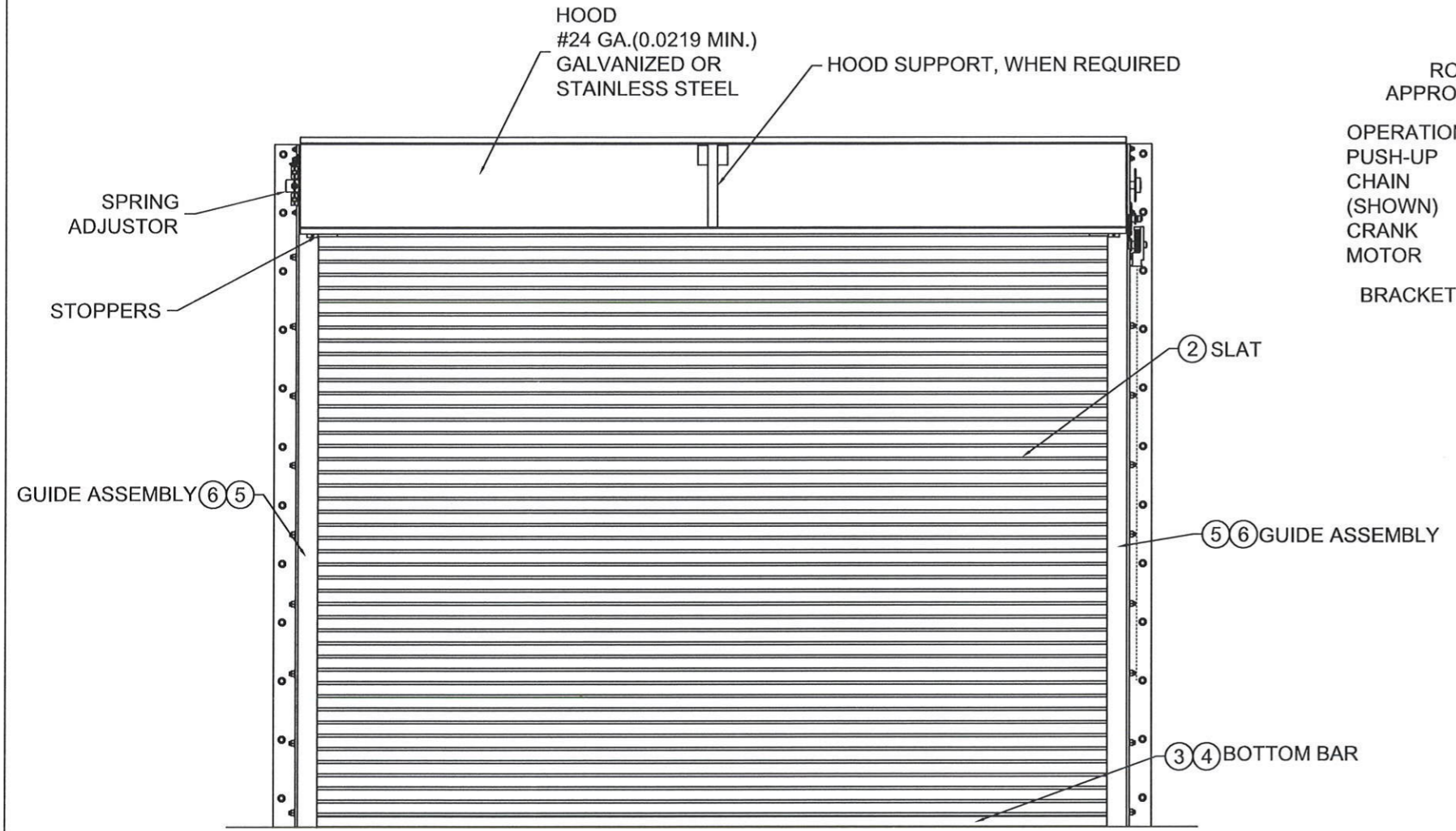
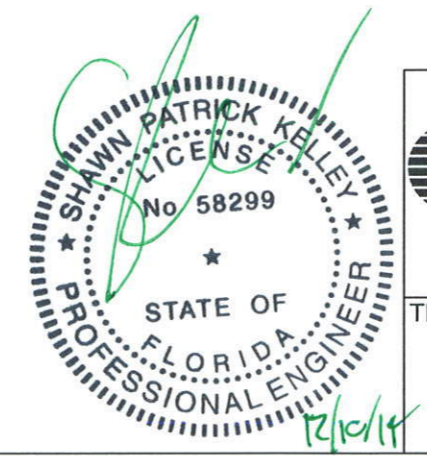


L'TR	REVISION	DATE	BY	E.C.O.
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NOTE: WIND LOADS SPECIFIED IN TABLES ARE ACCEPTABLE FOR ANY C.O.H.. FOR GREATER THAN 30 FT, C.O.H., MOUNTING CONDITIONS SHALL BE DETERMINED ON A SITE SPECIFIC BASIS.

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



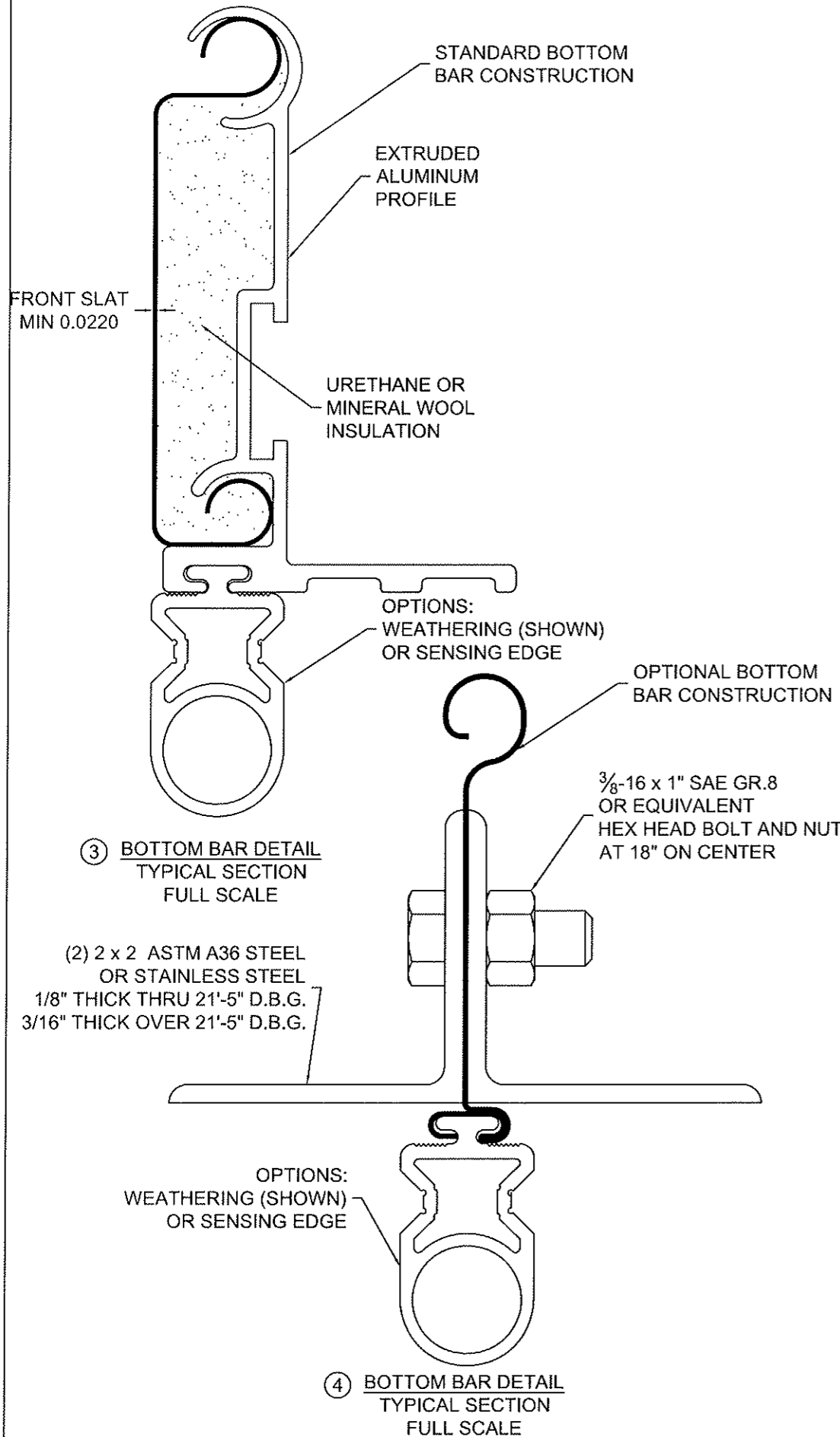
24 ELMWOOD AVE 1901 S. LITCHFIELD RD
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800 TULIP DRIVE
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P: 800.233.8366
F: 800.526.0841
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Unless otherwise specified, dimensions are in inches & tolerances are:
0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

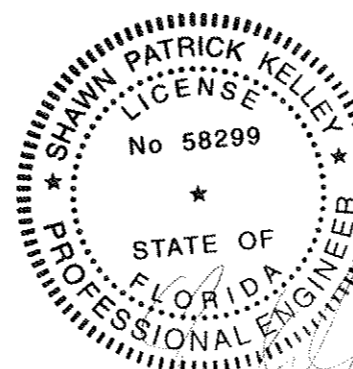
DRAWN BY: TJE
SIZE: B
SCALE: AS NOTED
SHEET: 1/16
DWG NO: ES-16-63-CIW

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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



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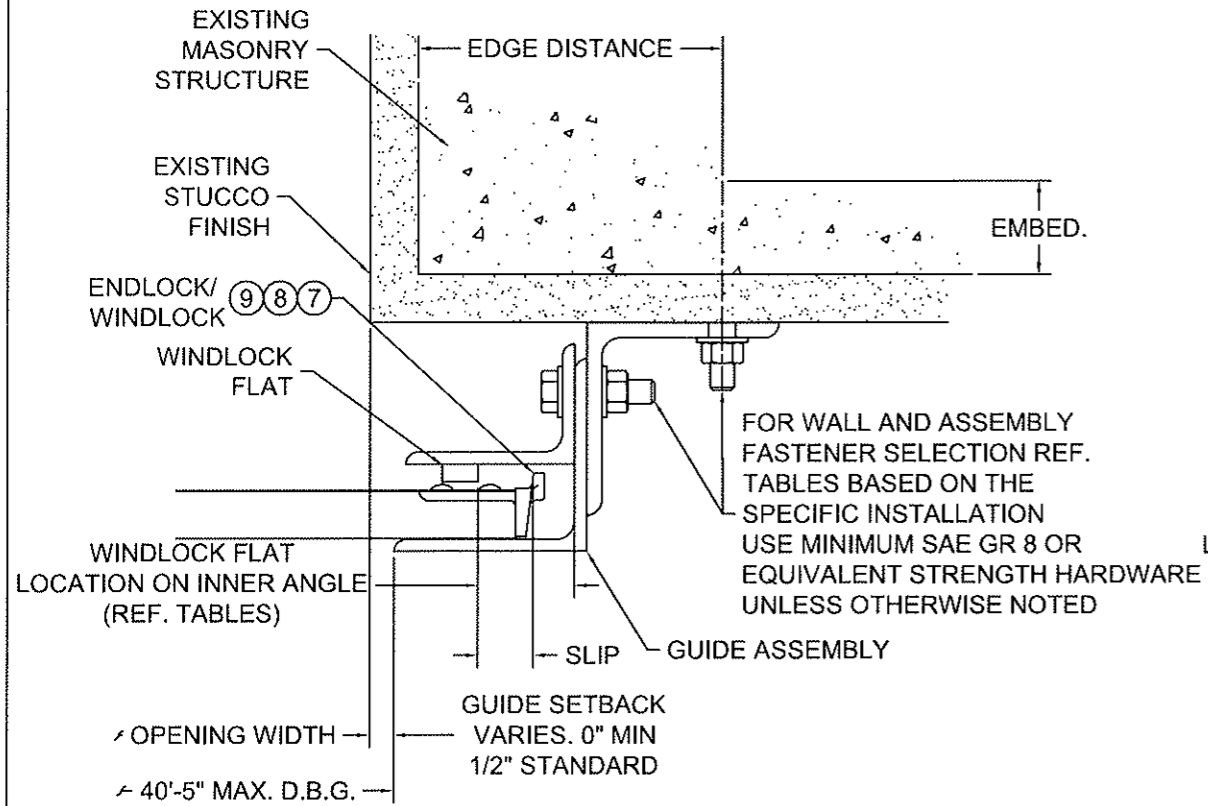
Unless otherwise specified, dimensions are in inches & tolerances are:

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

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

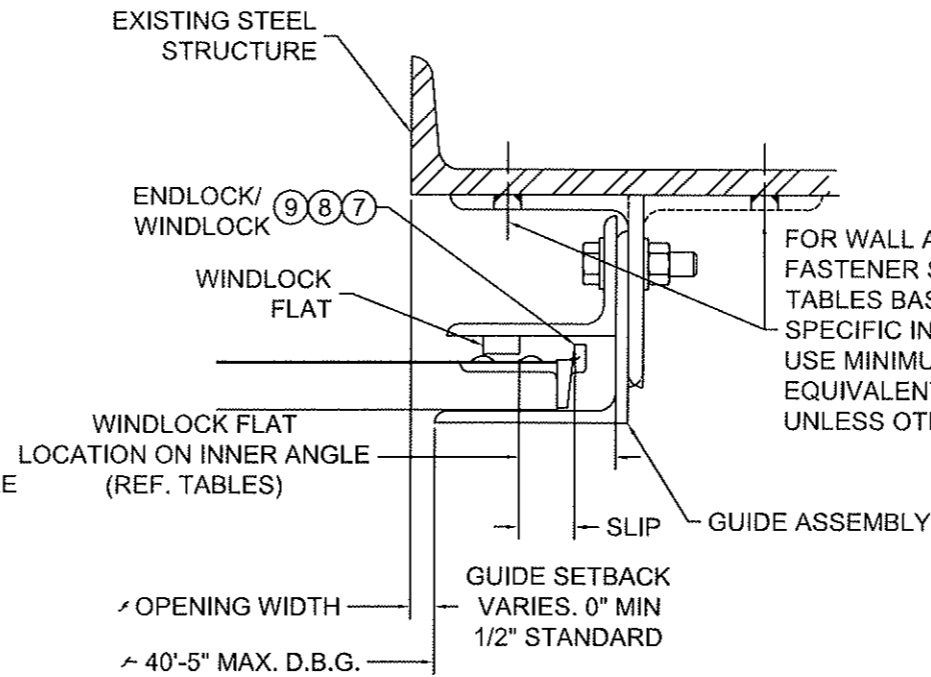
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DWG NO: ES-16-63-CIW			

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

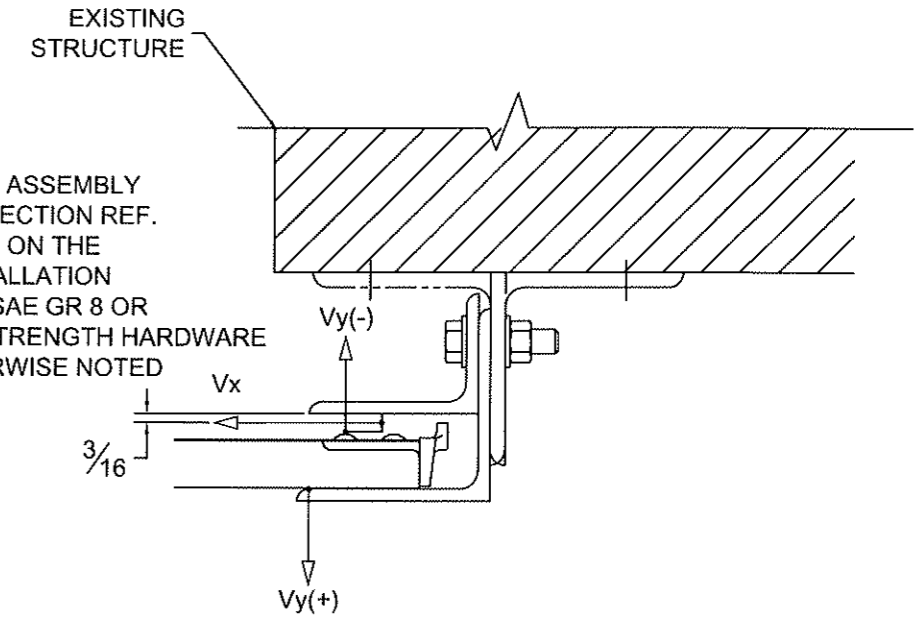


NOTE:
THROUGH BOLTING TO FILLED BLOCK REQUIRES THE USE
OF 1/4" THICK STEEL OR STAINLESS STEEL CRUSH PLATE

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



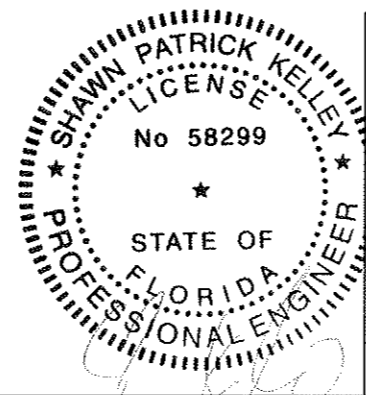
⑥ GUIDE ASSEMBLY
STEEL STRUCTURE
(Z-GUIDE OR E-GUIDE)



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"



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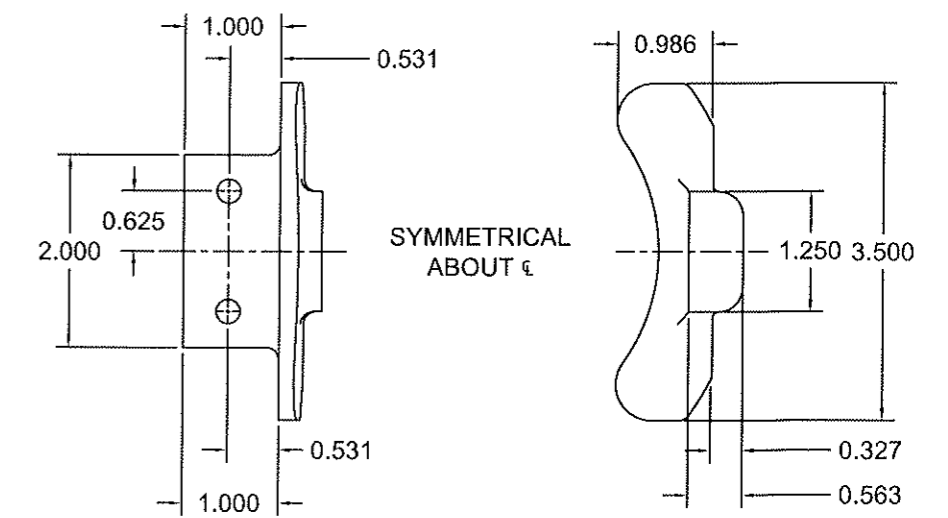
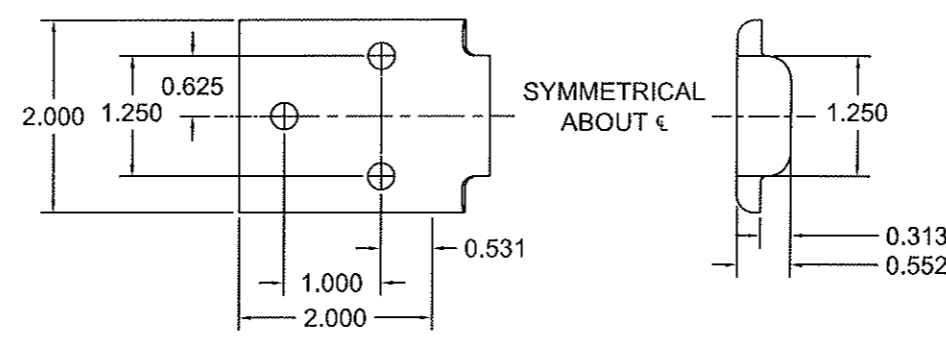
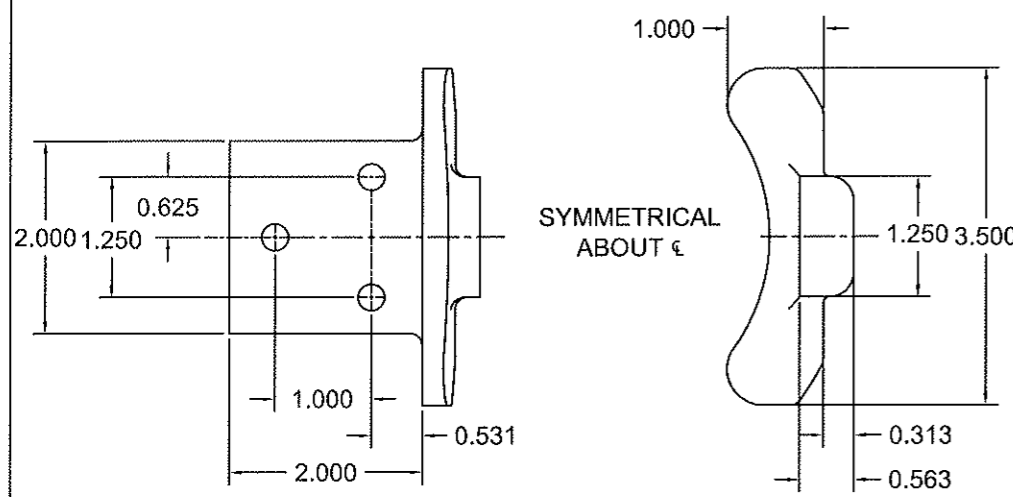
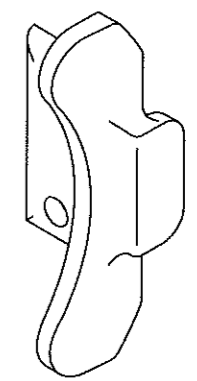
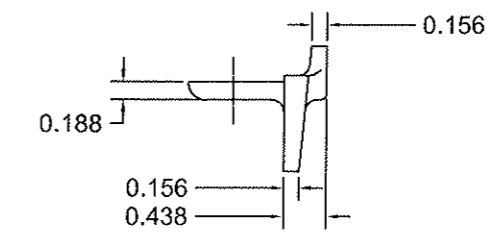
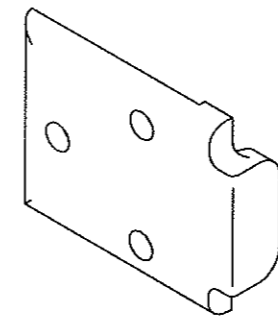
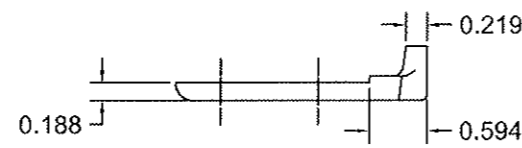
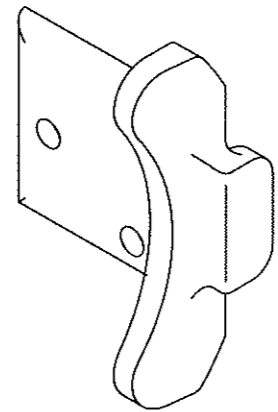
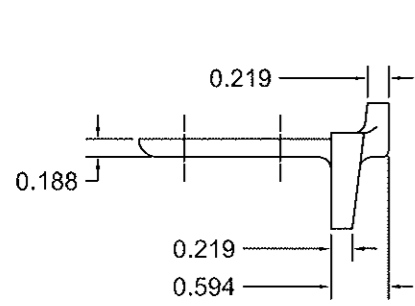
Unless otherwise specified,
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FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

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

DRAWN BY:	SIZE:	SCALE:	SHEET:
TJE	B	AS NOTED	3/16
DWG NO: ES-16-63-CIW			

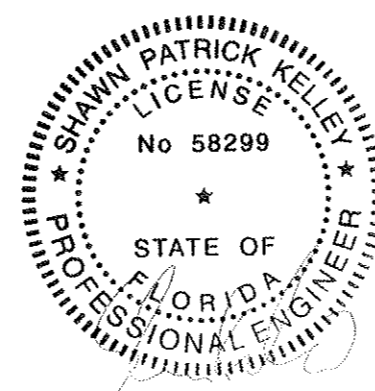
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/10/14	TJE	1615



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

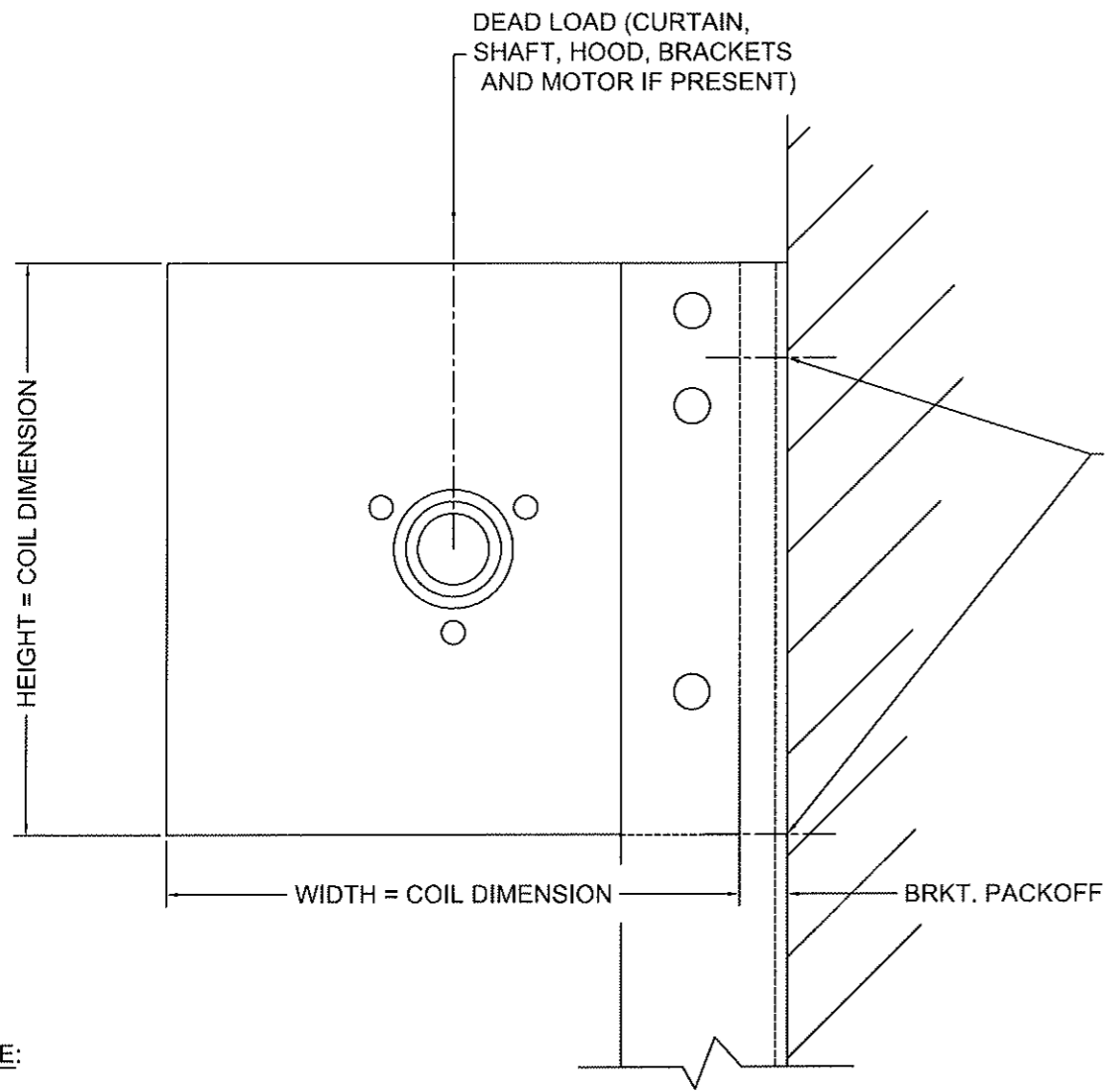
⑧ CP0647 WINDLOCK DETAIL
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE

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

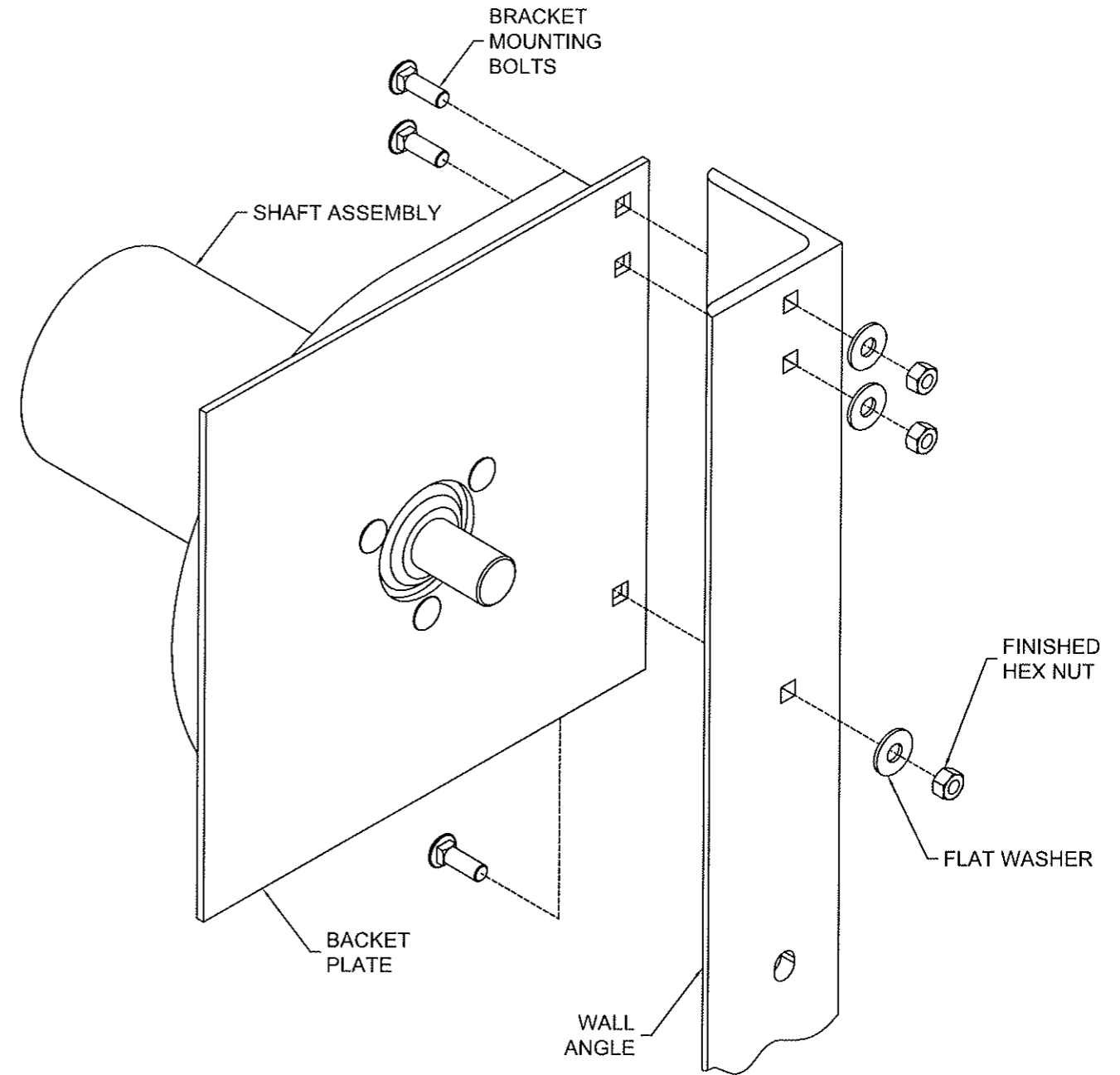


	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.233.8366 F: 800.526.0841 E: ADS@CORNELLIRON.COM		Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED	DRAWN BY: TJE	SIZE: B

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

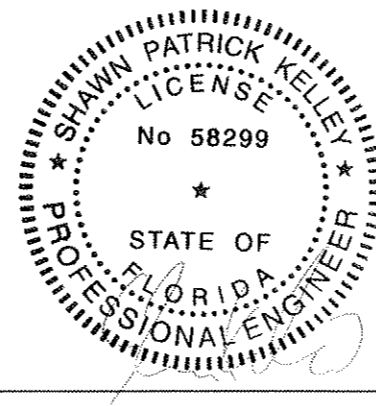


NOTE:

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".

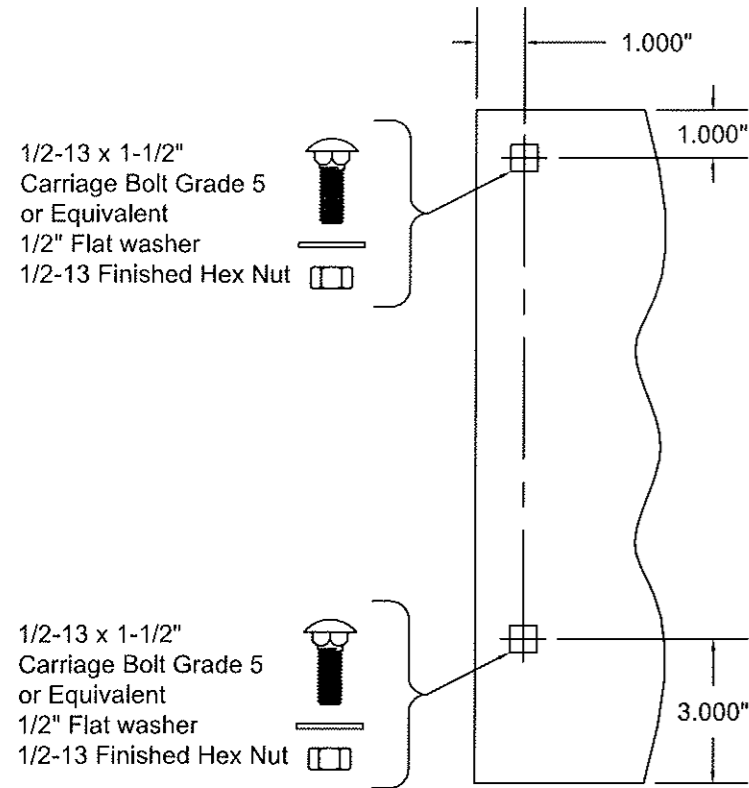
NOTE:

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



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	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED	DRAWN BY: TJE	SIZE: B
DWG NO: ES-16-63-CIW			

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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

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"
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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

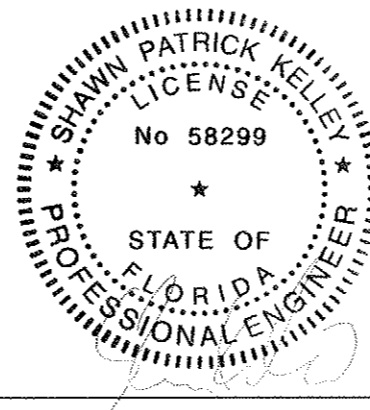
1/2-13 x 1-1/2"
Carriage Bolt Grade 5
or Equivalent
1/2" Flat washer
1/2-13 Finished Hex Nut

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"



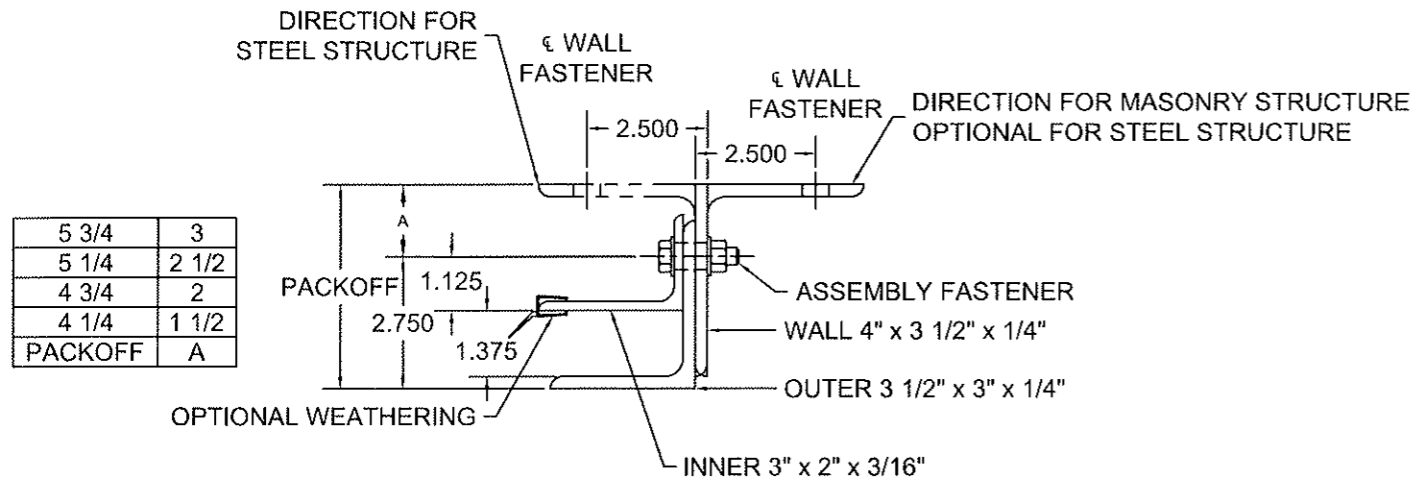
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 ANGLES = +/- 1/2 DEG

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

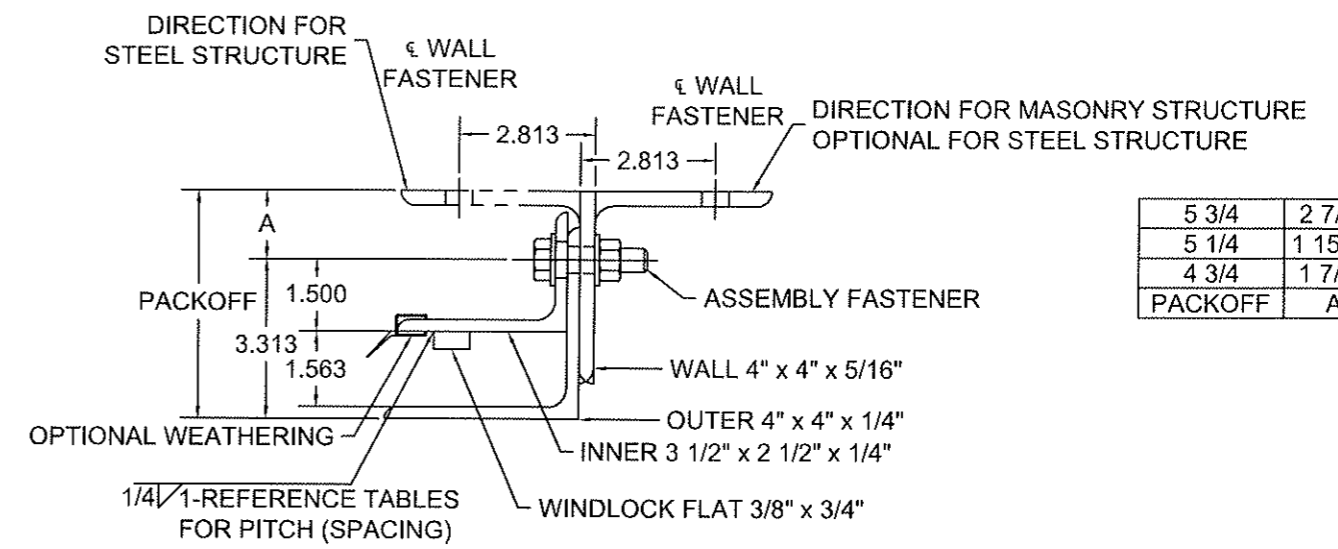
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 DWG NO: **ES-16-63-CIW**

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



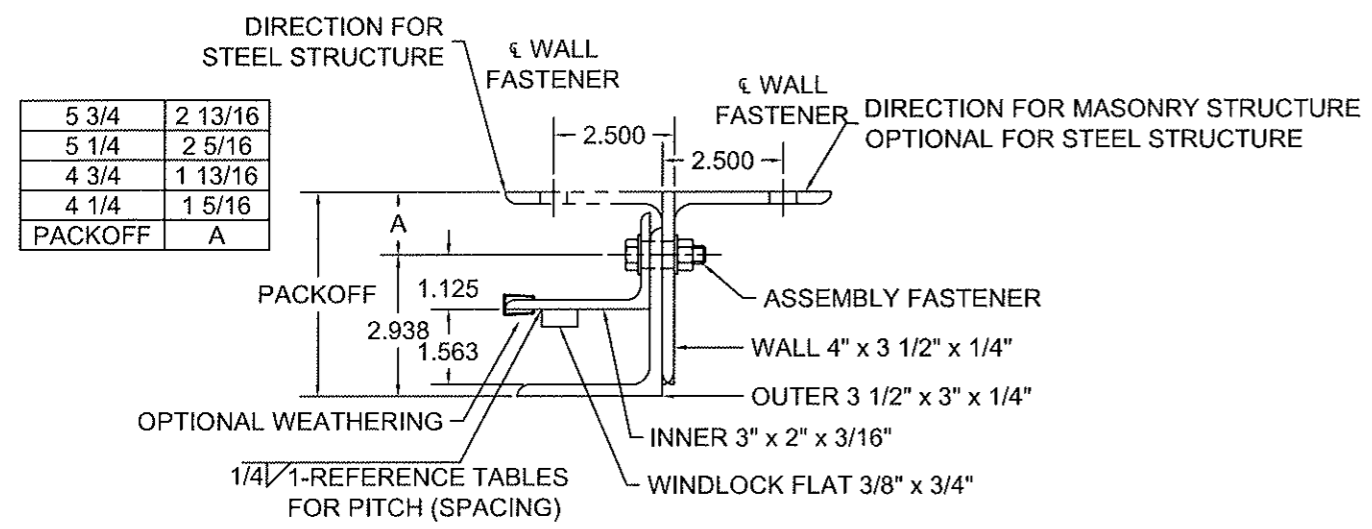
5 3/4	3
5 1/4	2 1/2
4 3/4	2
4 1/4	1 1/2
PACKOFF	A

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



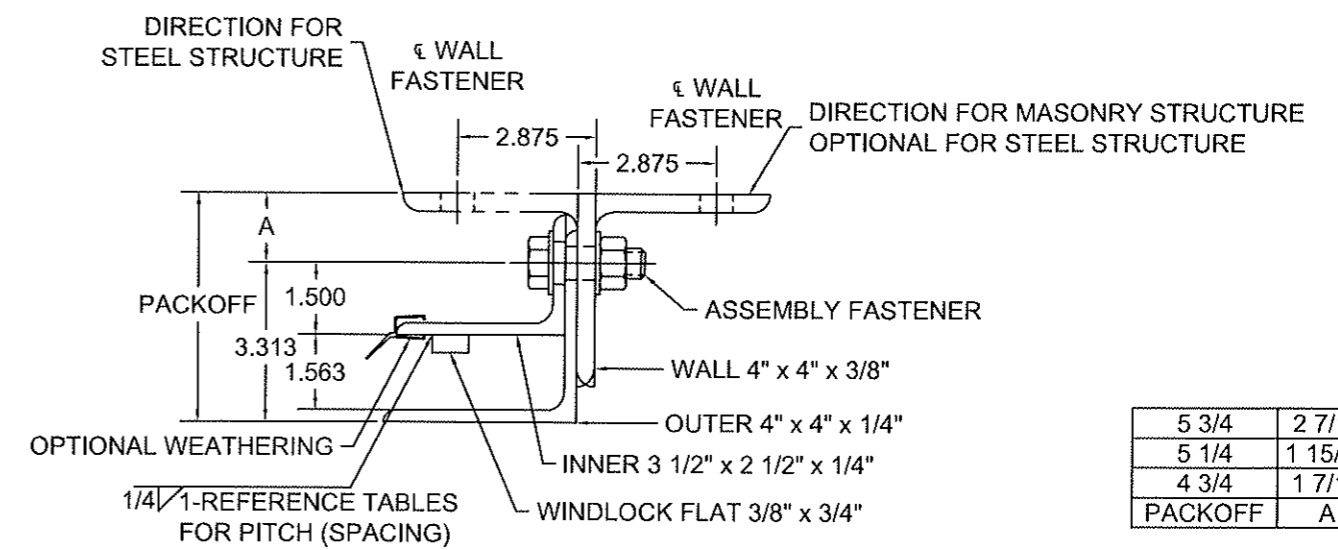
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A

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



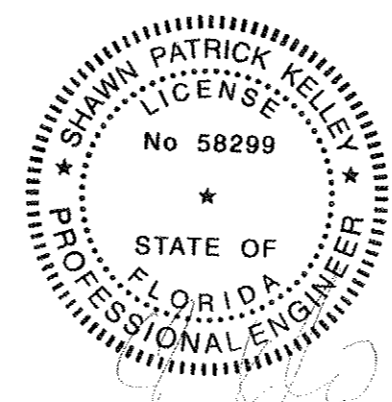
5 3/4	2 13/16
5 1/4	2 5/16
4 3/4	1 13/16
4 1/4	1 5/16
PACKOFF	A

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



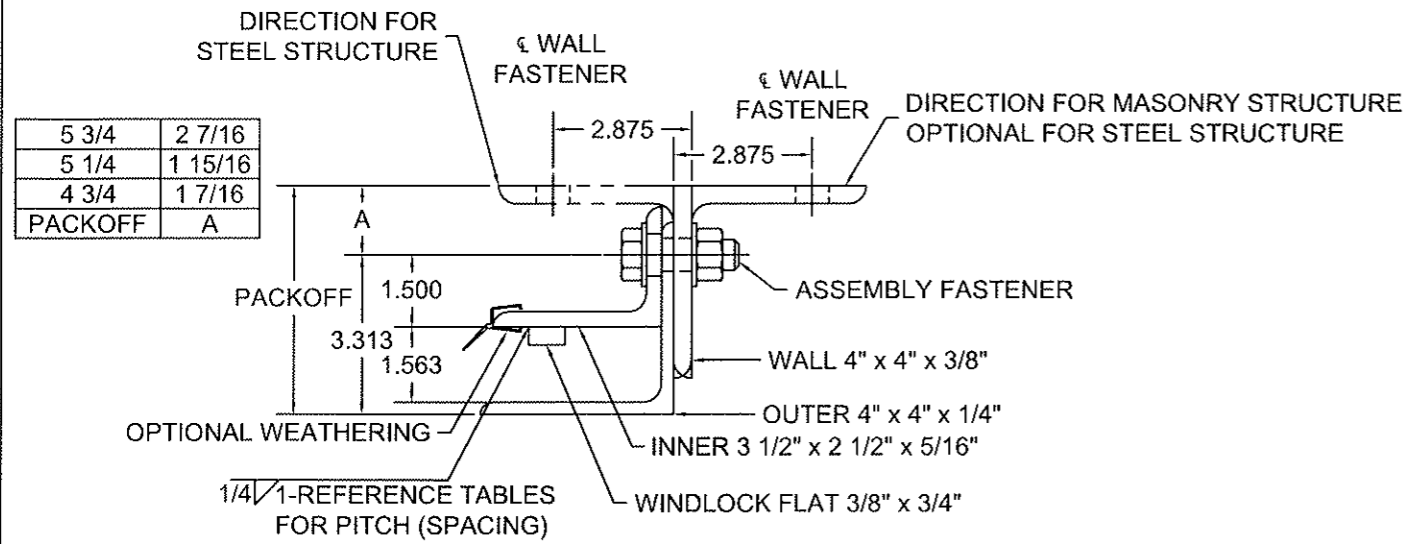
5 3/4	2 7/16
5 1/4	1 15/16
4 3/4	1 7/16
PACKOFF	A

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

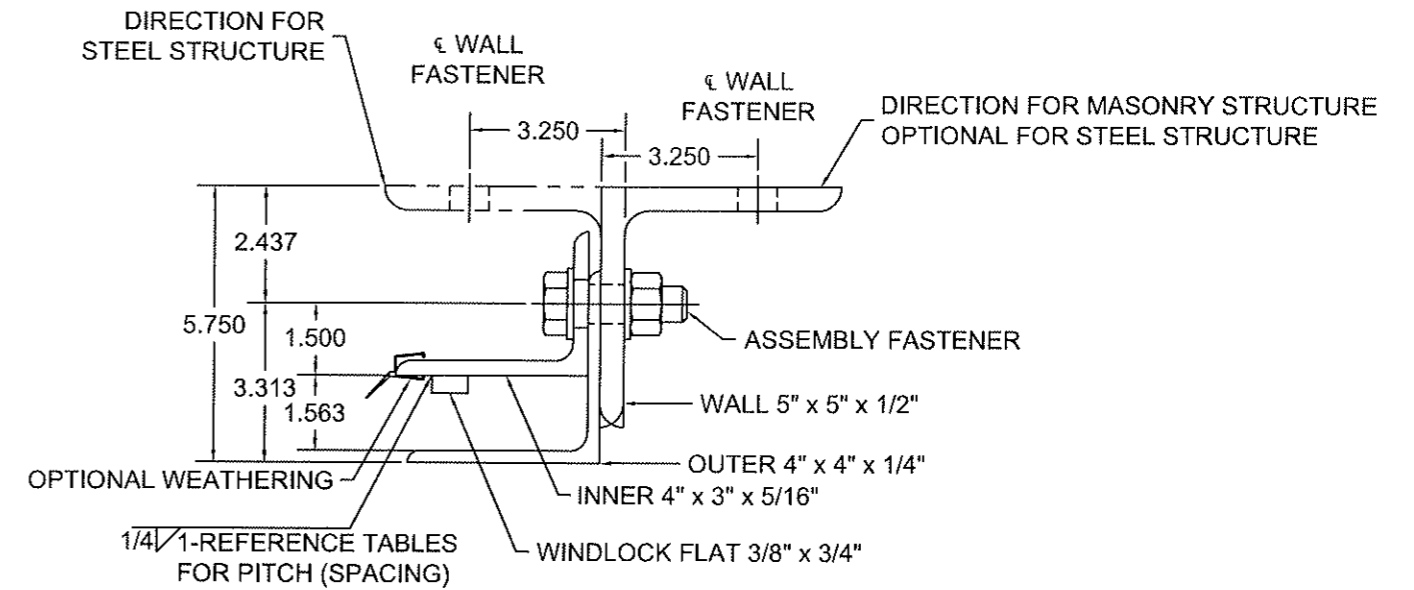


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	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-63-CIW	SIZE: B SCALE: AS NOTED

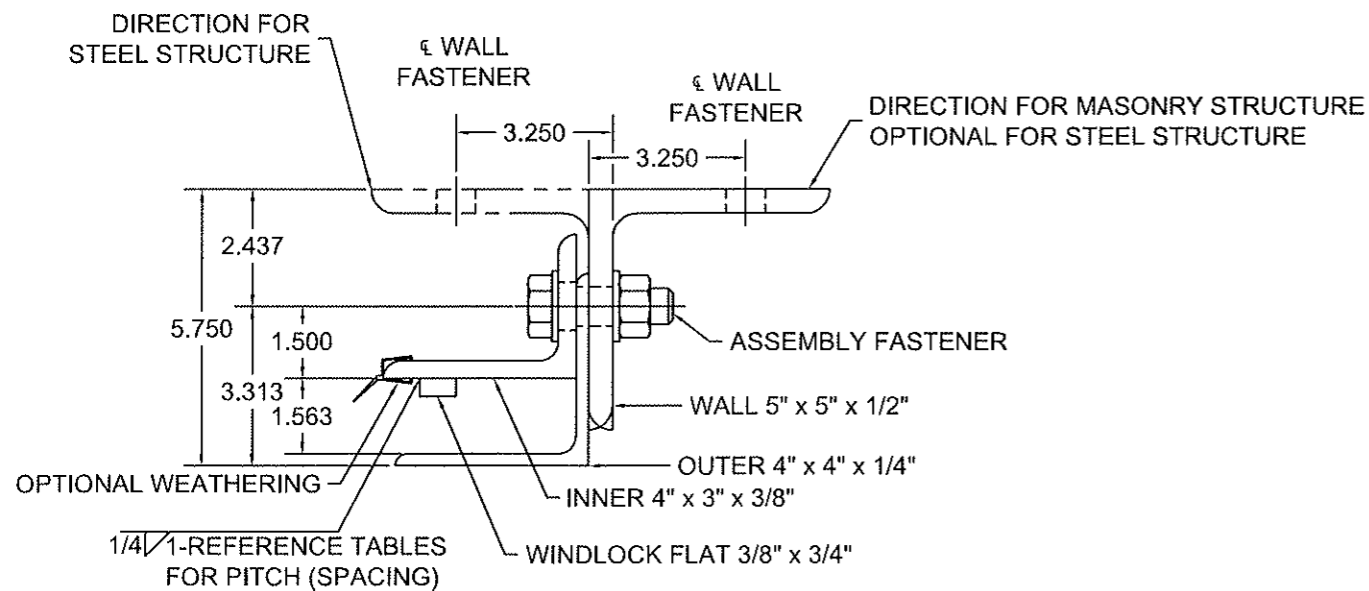
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/10/14	TJE	1615



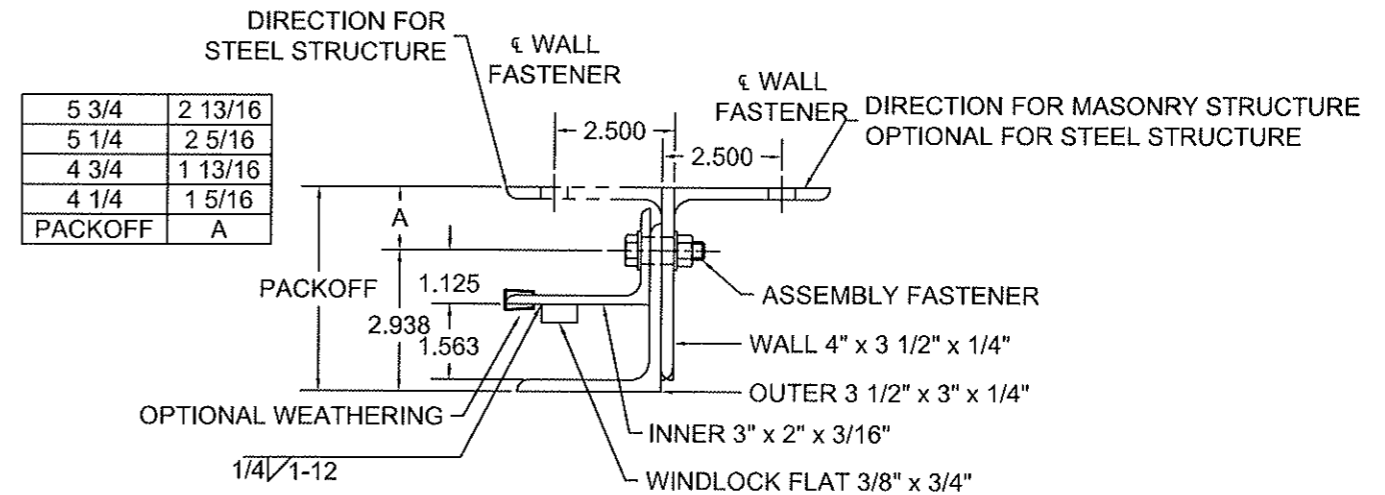
GUIDE ASSEMBLY TYPE 546
SCALE: 3" = 1'-0"



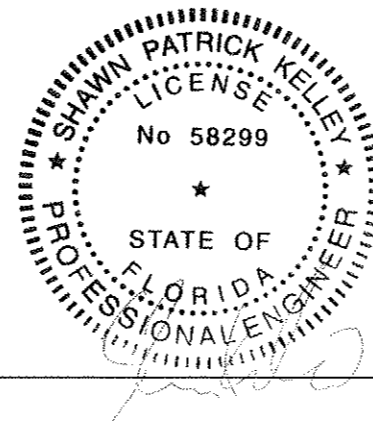
GUIDE ASSEMBLY TYPE 548
SCALE: 3" = 1'-0"



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



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



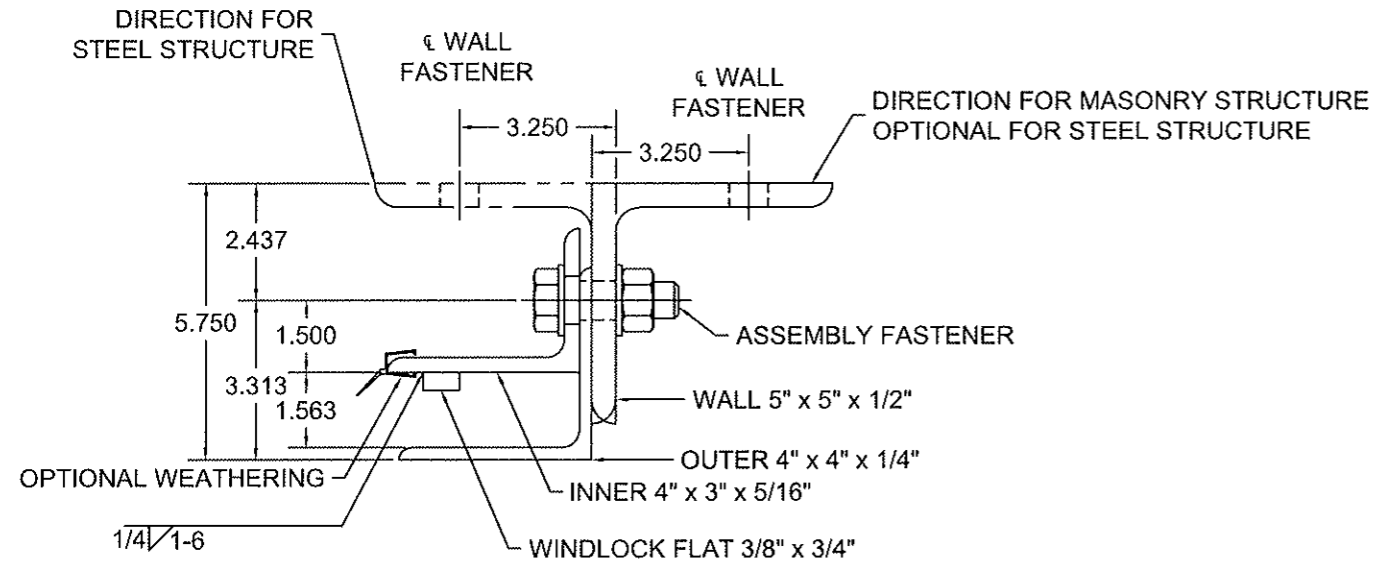
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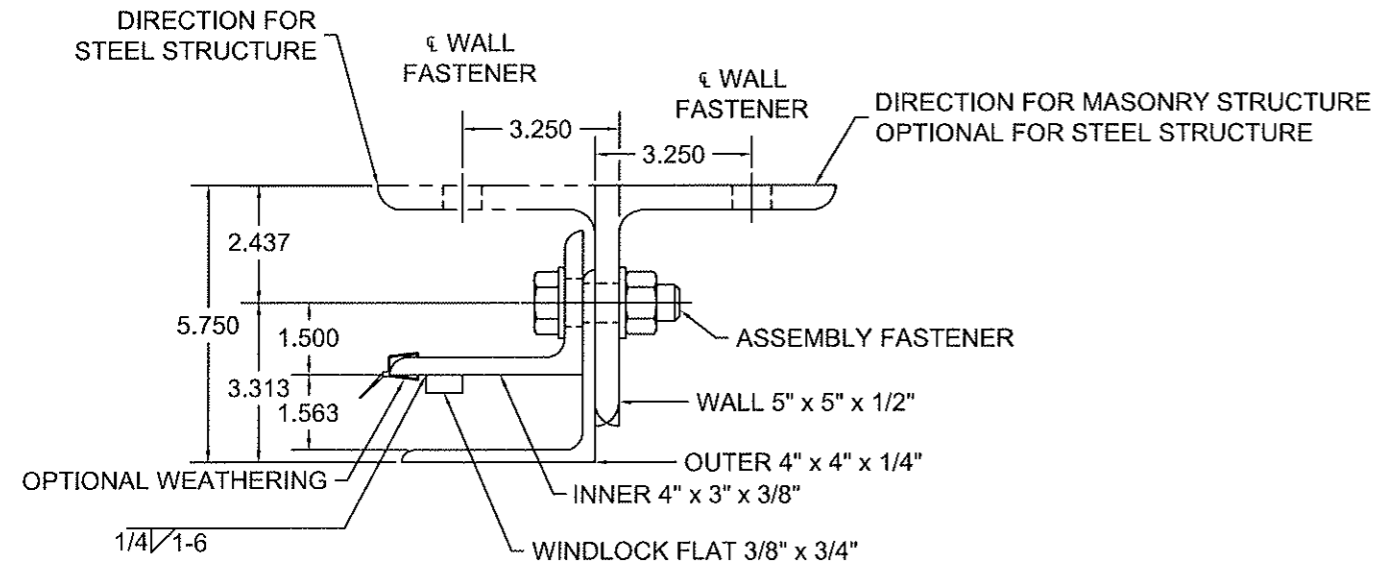
TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: TJE
SIZE: B
SCALE: AS NOTED
SHEET: 8/16
DWG NO: ES-16-63-CIW

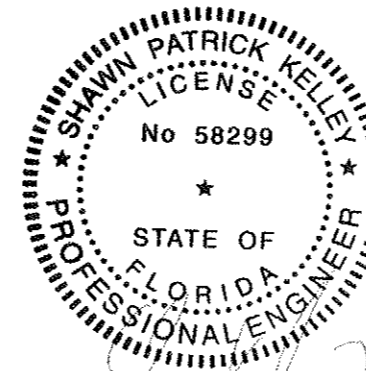
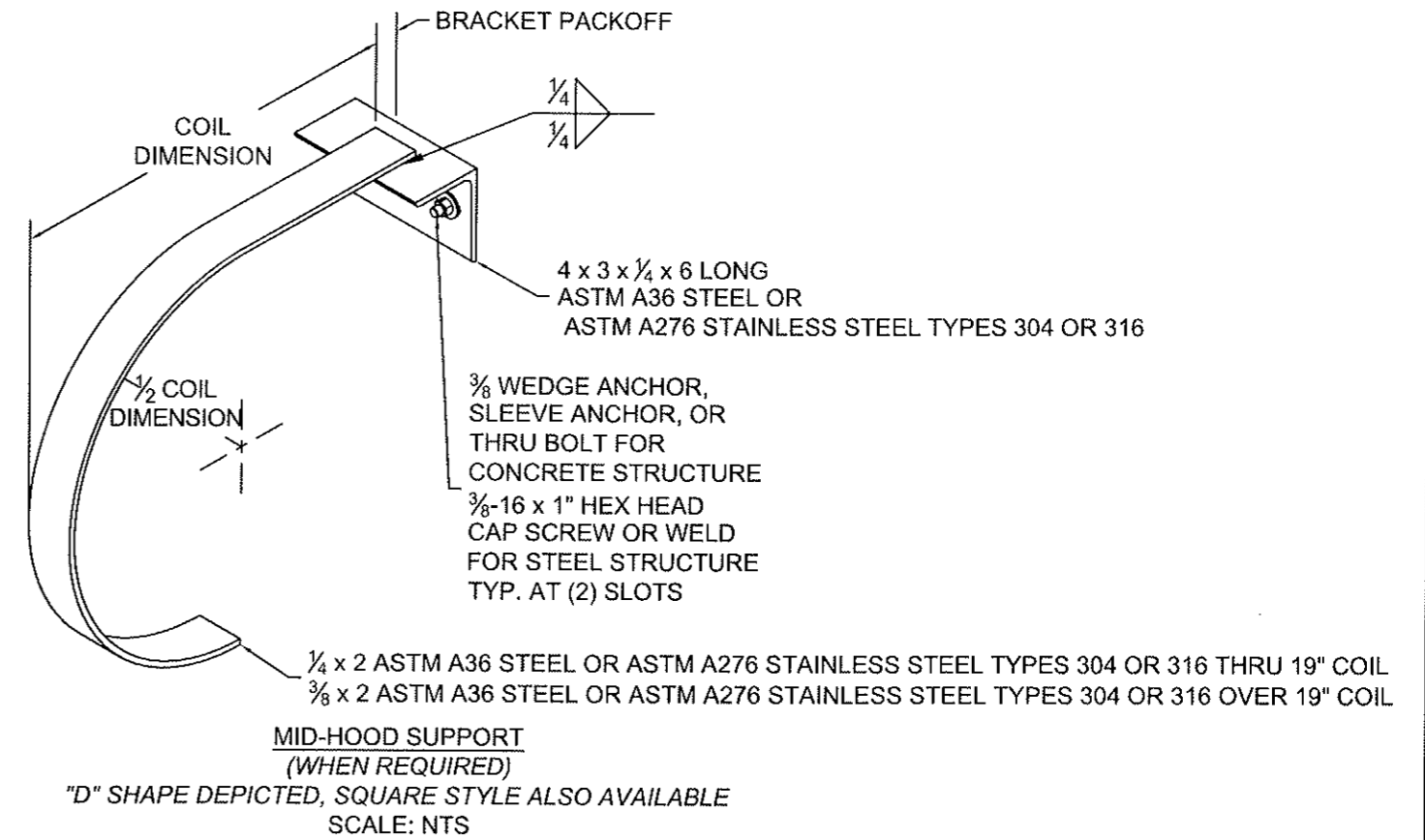
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/10/14	TJE	1615



GUIDE ASSEMBLY TYPE DC2
SCALE: 3" = 1'-0"



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



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

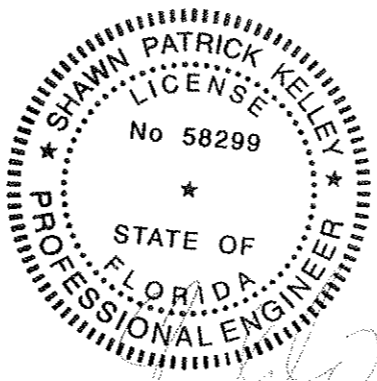
TITLE: WIND LOAD CONFIGURATION
INSULATED ROLLING STEEL DOOR
CP0001/CP0651 SLAT IMPACT RATED

DRAWN BY: TJE
SIZE: B
SCALE: AS NOTED
SHEET: 9/16
DWG NO: ES-16-63-CIW

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

DBG Up To	Windlock Flat Location	Slip	Windlock	Gusset 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)												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 Tribolts		Welded		Through Bolt		Tapped		Max. O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	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	26	3	4 1/2	5 3/4	20	2	3	5 3/4	14	3/8	2 1/2	5 3/4	10	3/8	2 5/8	5 3/4	25	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	87

DBG Up To	Windlock Flat Location	Slip	Windlock	Gusset 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)												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 Tribolts		Welded		Through Bolt		Tapped		Max. O.C.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	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	26	3	4 1/2	5 3/4	20	2	3	5 3/4	14	3/8	2 1/2	5 3/4	10	3/8	2 5/8	5 3/4	25	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	87



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

TITLE:	WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED	DRAWN BY:	TJE	SIZE:	B	SCALE:	AS NOTED	SHEET:	10/16
DWG NO:		ES-16-63-CIW							

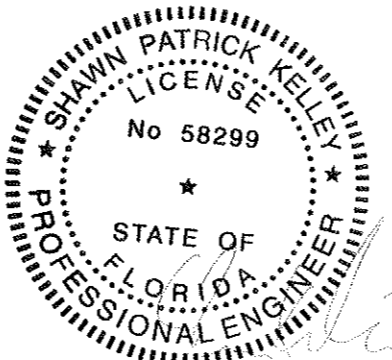
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU						Steel (Wall anchors are the same diameter 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			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.	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.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	N/A	N/A	CP0407	344*	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	11	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	36	3/16	0	165	0	163	
6'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	16	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	3/8	5 3/4	5 3/4	10	3/8	5 3/4	36	36	3/16	0	195	0	193	
7'-5"	N/A	N/A	CP0407	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	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	36	3/16	0	225	0	223	
8'-5"	N/A	N/A	CP0407	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	9	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	8	3/8	5 3/4	36	36	3/16	0	255	0	253	
9'-5"	N/A	N/A	CP0407	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	6	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	7	3/8	5 3/4	36	36	3/16	0	285	0	283	
13'-5"	1 5/16	0.532	CP0630	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	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	3 1/2	8	8	1/2	4 1/2	8	N/A	N/A	18	9/16 x 3/4	18	18	1/4	432	375	365	373
14'-5"	1 5/16	0.469	CP0630	445	8	1/2	14	9	4 1/2	6 3/4	6 13/16	7	4 1/2	6 3/4	6 13/16	7	4	6	6 13/16	7	4	6	6 13/16	N/A	N/A	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"	1 3/8	0.531	CP0630	446	8	5/8	18	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	N/A	N/A	N/A	N/A	10	5/8	6 7/8	23	11/16 x 7/8	23	12	5/16	1633	465	1579	466							
16'-5"	1 1/2	0.656	CP0630	446	8	5/8	18	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	N/A	N/A	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"	1 5/8	0.781	CP0630 & CP0647	546	7	5/8	17	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	N/A	N/A	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"	1 3/4	0.906	CP0630 & CP0647	546	7	5/8	16	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	N/A	N/A	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"	1 7/8	1.031	CP0630 & CP0647	546	7	5/8	15	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	N/A	N/A	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"	2	1.156	CP0630 & CP0647	546	7	5/8	14	7	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	N/A	7	5/8	6 7/8	18	13/16 x 7/8	18	10	5/16	2067	613	2050	614															
21'-5"	2 1/8	1.281	CP0630 & CP0647	546	7	3/4	18	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	N/A	N/A	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"	2 3/8	1.531	CP0630 & CP0647	546	7	3/4	18	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	N/A	N/A	N/A	N/A	9	3/4	7 1/2	36	13/16 x 1	36	20	3/8	2252	672	2233	673							
23'-5"	2 1/2	1.656	CP0630 & CP0647	546	6	3/4	18	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	N/A	N/A	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"	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2455	737	2430	733							
25'-5"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	15	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	N/A	N/A	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"	2 1/2	1.656	CP0630 & CP0647	648	6	3/4	14	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	N/A	N/A	N/A	N/A	7	3/4	7 1/2	28	13/16 x 1	28	15	3/8	2861	789	2845	789							
27'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	7	5	7 1/2	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	7	3/4	7 1/2	26	13/16 x 1	26	14	3/8	3065	813	3049	814							
28'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	13/16 x 1	25	13	3/8	3270	854	3254	854						
29'-5"	2 1/2	1.656	CP0630 & CP0647	648	5	3/4	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	13/16 x 1	23	12	3/8	3476	884	3460	885						

DBG Up To	Windlock Flat Location	Slip	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						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			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.	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.	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)
5'-5"	N/A	N/A	CP0407	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	10	2	3	5 3/4	8	3/4	3 1/4	5 3/4	11	3/8	5 3/4	36	36	3/16	0	179	0	177					
6'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	16	2 3/8	4	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	12	3/4	4 3/8	5 3/4	9	3/8	5 3/4	36	36	3/16	0	212	0	209					
7'-5"	N/A	N/A	CP0407	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	10	3/4	4 3/8	5 3/4	8	3/8	5 3/4	36	36	3/16	0	244	0	242					
8'-5"	N/A	N/A	CP0407	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	6	2	3	5 3/4	9	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	7	3/8	5 3/4	36	36	3/16	0	277	0	274	
9'-5"	N/A	N/A	CP0407	344*	N/A	3/8	24	N/A	N/A	N/A	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	6	3/4	4 3/8	5 3/4	N/A	N/A	N/A	N/A	6	3/8	5 3/4	36	36	3/16	0	309	0	307	
12'-5"	1 5/16	0.532	CP0630	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	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	3 1/2	8	8	1/2	4 1/2	8	N/A	N/A	18	9/16 x 3/4	18	18	1/4	566	406	517	404
13'-5"	1 3/8	0.531	CP0630 & CP0647	546	7	5/8	17	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	N/A	N/A	N/A	N/A	9	5/8	6 7/8	20	11/16 x 7/8	20	11	5/16	1826	508	1790	505							
14'-5"	1 1/2	0.656	CP0630 & CP0647	546	7	5/8	15	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	N/A	N/A	N/A	N/A	8	5/8	6 7/8	18	11/16 x 7/8	18	10	5/16	2040	537	2007	538							
15'-5"	1 1/2	0.656	CP0630 & CP0647	546	6	3/4	18	10	5	7 1/2	7 1/2	13	6 5/8	9 15/16	7 1/2	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	19	3/8	2254	570	2231	571							
16'-5"	1 5/8	0.781	CP0630 & CP0647	546	6	3/4	18	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	N/A	N/A	N/A	N/A	9	3/4	7 1/2	35	13/16 x 1	35	19	3/8	2312	602	2274	603							
17'-5"	1 3/4	0.906	CP0630 & CP0647	546	6	3/4	18	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	N/A	N/A	N/A	N/A	9	3/4	7 1/2	34	13/16 x 1	34	18	3/8	2385	634	2351	635							
18'-5"	1 7/8	1.031	CP0630 & CP0647	546	6	3/4	18	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	N/A	N/A	N/A	N/A	9	3/4	7 1/2	33	13/16 x 1	33	18	3/8	2455	666	2435	667							
19'-5"	2	1.156	CP0630 & CP0647	546	6	3/4	17	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	N/A	N/A	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"	2 1/4	1.406	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	N/A	N/A	N/A	N/A	N/A																						

L'T/R	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/10/14	TJE	1615

DEG Up To	Windlock Flat Location	Slip	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										
								Hilti Kwik Bolt 3			Simpson Wedge All			Red Head Tru-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hilti Kwik Bolt 12			Simpson Strong-Bolt 2			Welded		Through Bolt		Tapped		Vr (+)	Vr (-)	Vr (+)	Vr (-)														
								Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.					Max O.C.	Embed	Min. Wall Thick.											
5'-5"	N/A	N/A	CP0407	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	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	3/16 x 5/8	36	36	3/16	0	130	0	109

DEG Up To	Windlock Flat Location	Slip	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												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		Vr (+)	Vr (-)	Vr (+)	Vr (-)								
								Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.					Max O.C.	Embed	Min. Wall Thick.	Max O.C.	Embed	Min. Wall Thick.		
5'-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	15	3	4 1/2	5 3/4	12	2	3	5 3/4	8	3/8	2 1/2	5 3/4	14	3/4	5 3/4	14	3/4	5 3/4	15	3/8	5 3/4	17	3/8	5 3/4	17	11	3/16	607	363	571	352



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

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

DRAWN BY: TJE
SIZE: B
SCALE: AS NOTED
SHEET: 14/16
DWG NO: ES-16-63-CIW

