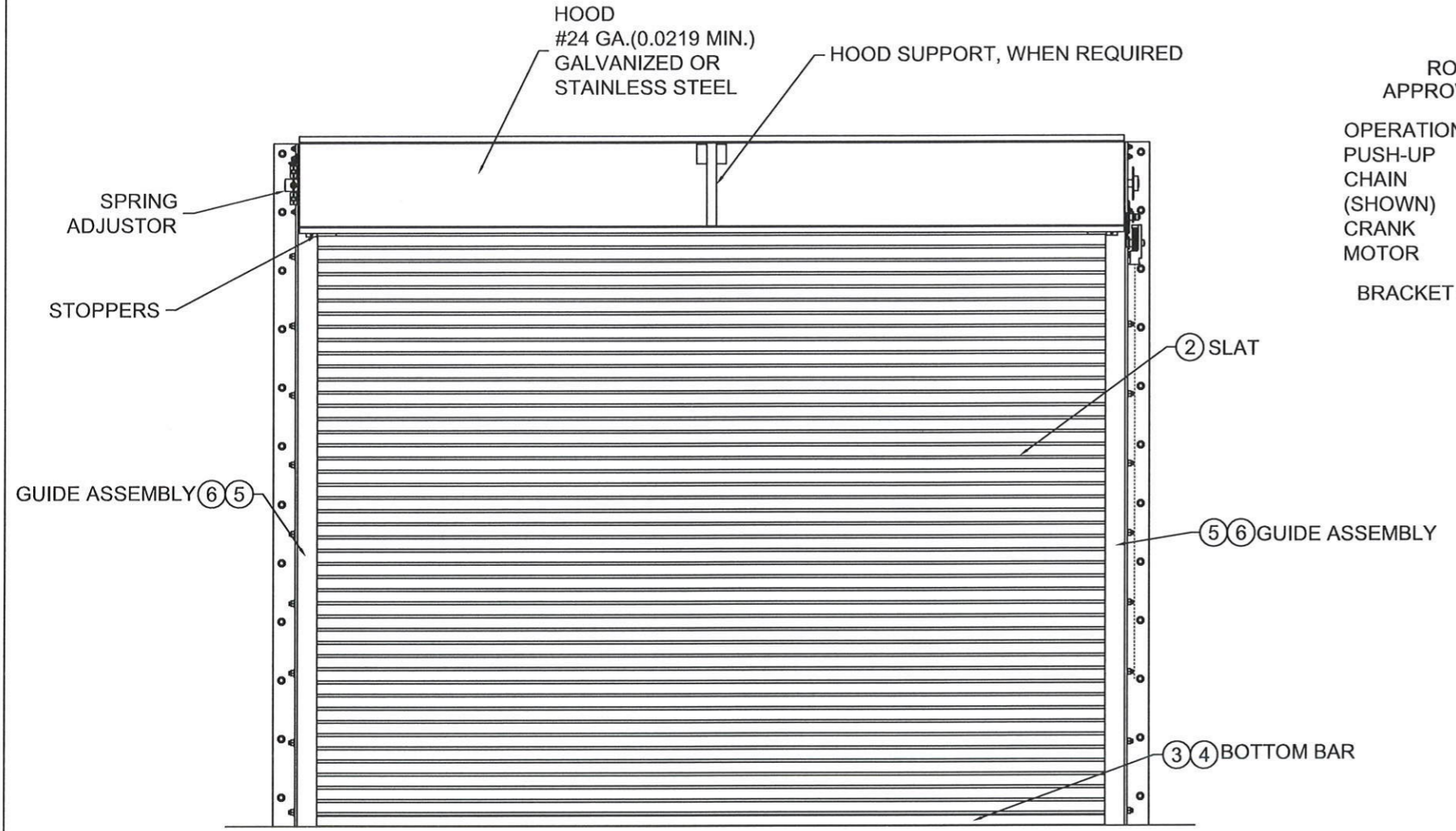
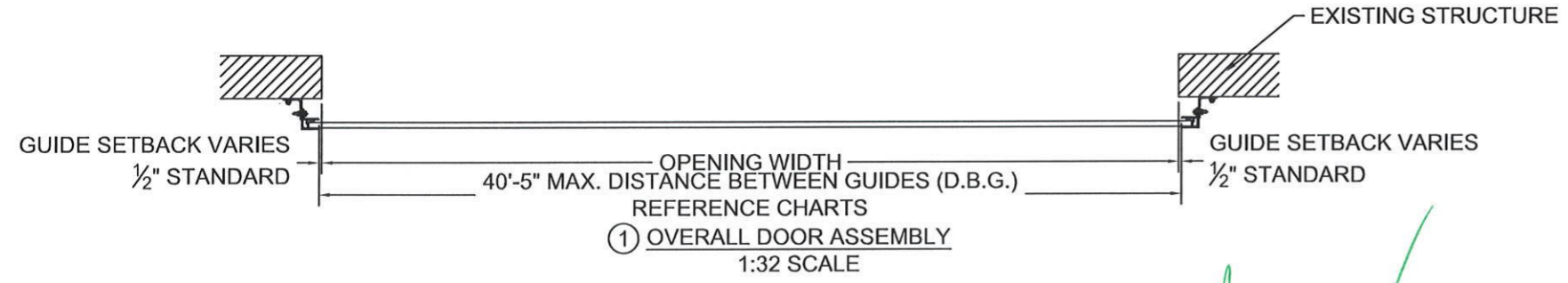
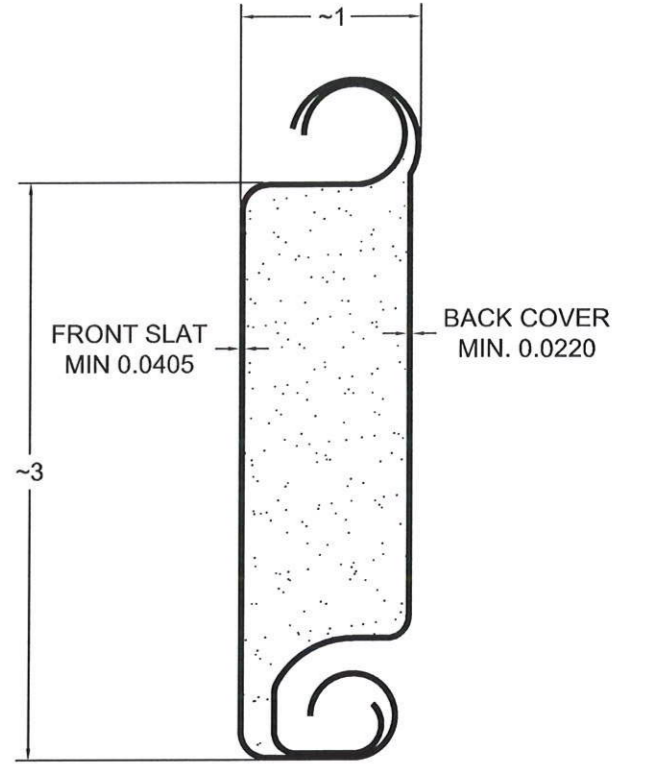
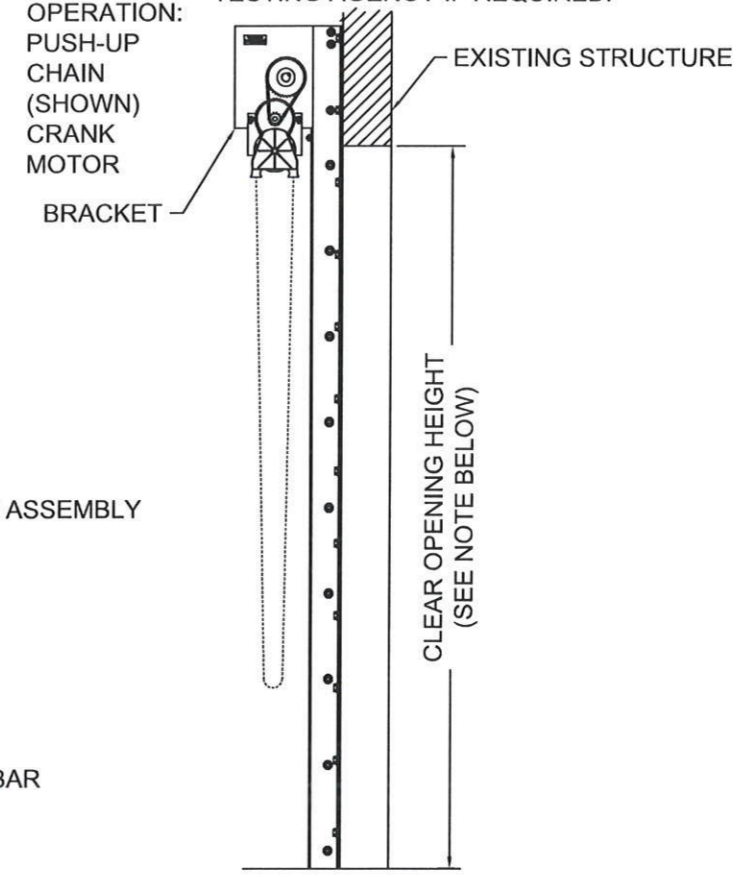


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ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



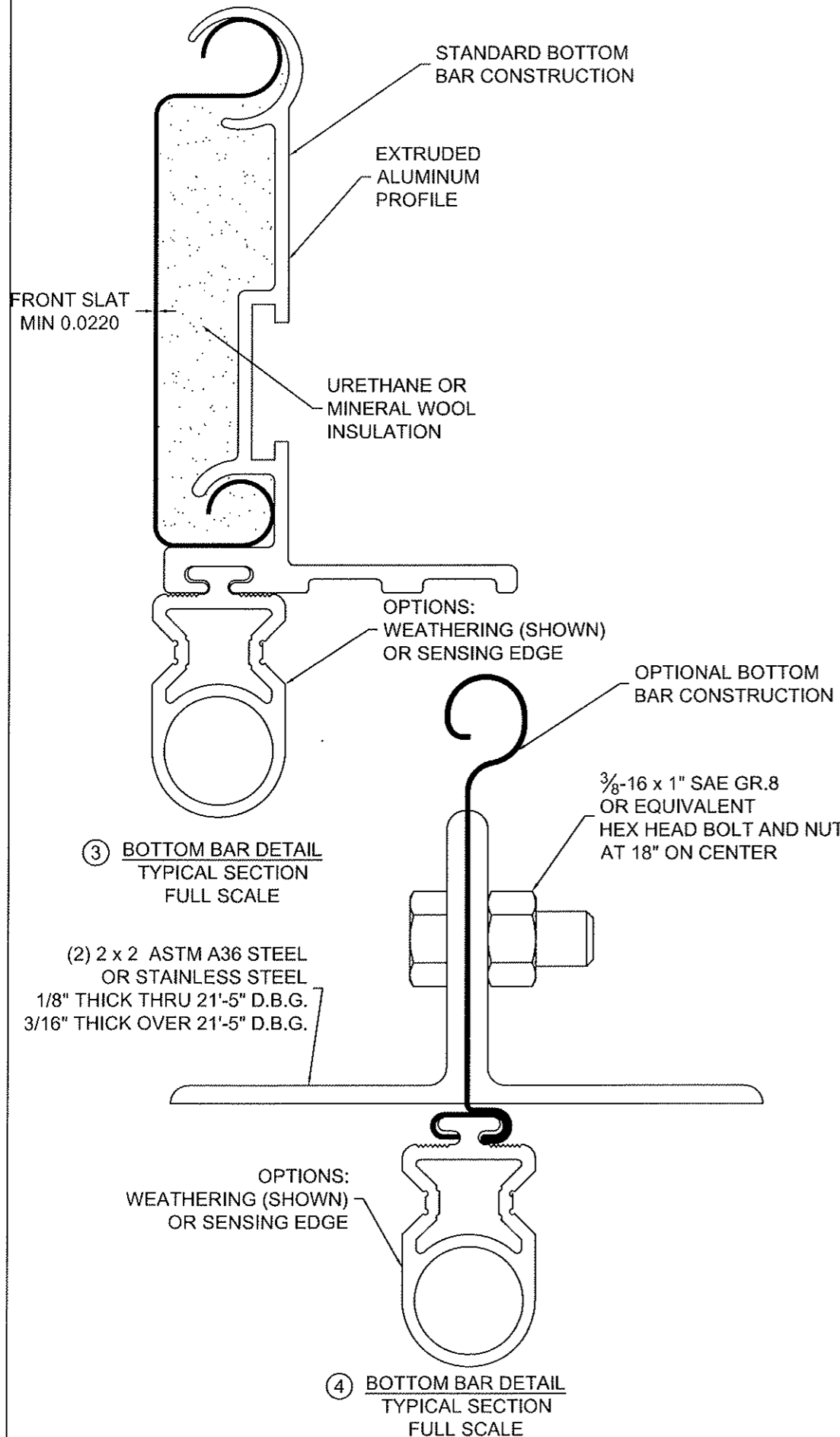
NOTE: WIND LOADS SPECIFIED IN TABLES ARE ACCEPTABLE FOR ANY C.O.H.. FOR GREATER THAN 30 FT, C.O.H., MOUNTING CONDITIONS SHALL BE DETERMINED ON A SITE SPECIFIC BASIS.

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



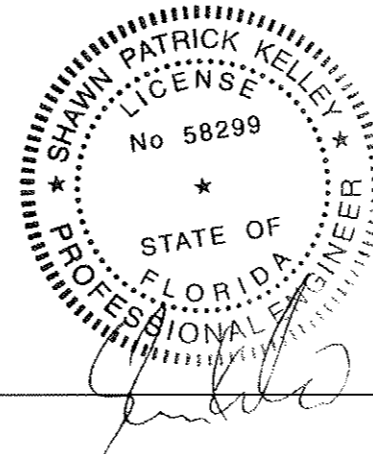
<p>COOKSON THE COOKSON COMPANY, INC.</p>	<p>24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.390.8590 F: 866.448.6798 E: ADS@COOKSONDOOR.COM</p>	<p>Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG</p>			
		<p>TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED</p>	<p>DRAWN BY: TJE</p>	<p>SIZE: B</p>	<p>SCALE: AS NOTED</p>
<p>DWG NO: ES-16-64-TCCI</p>					


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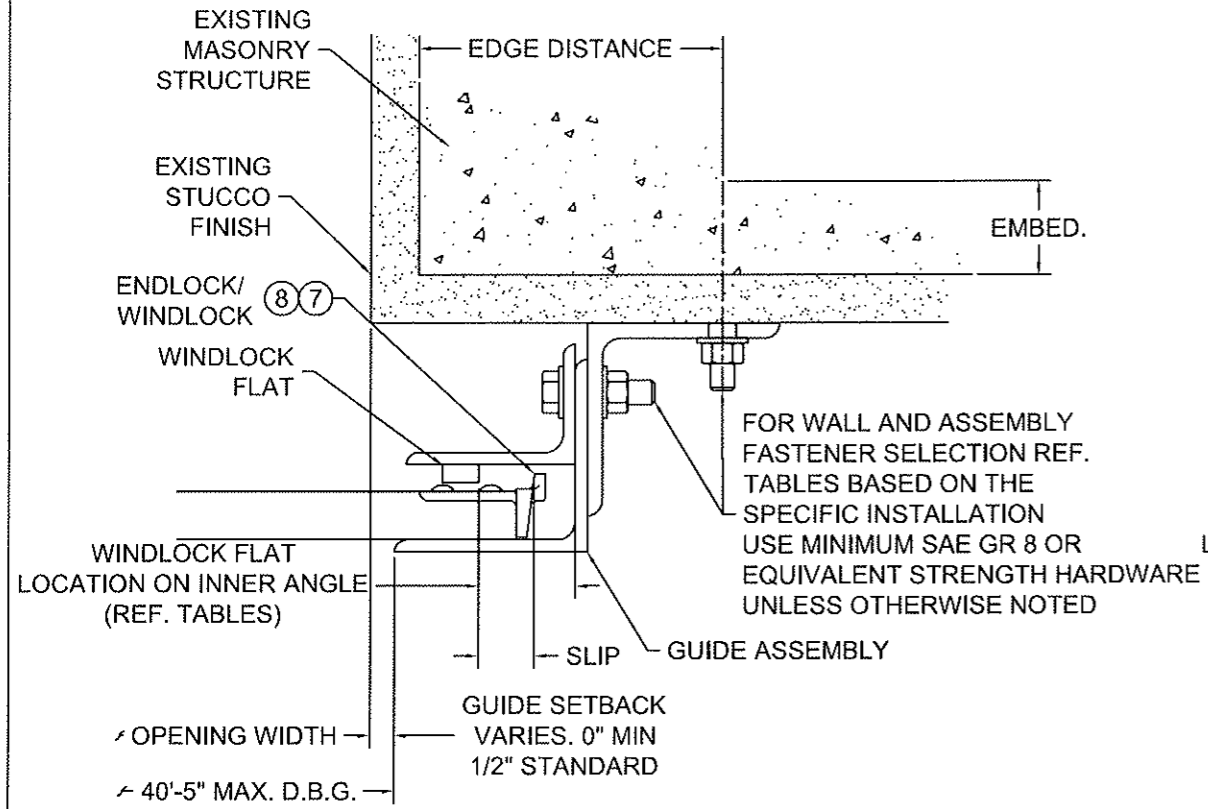
GENERAL NOTES:

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 V_x & V_y 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



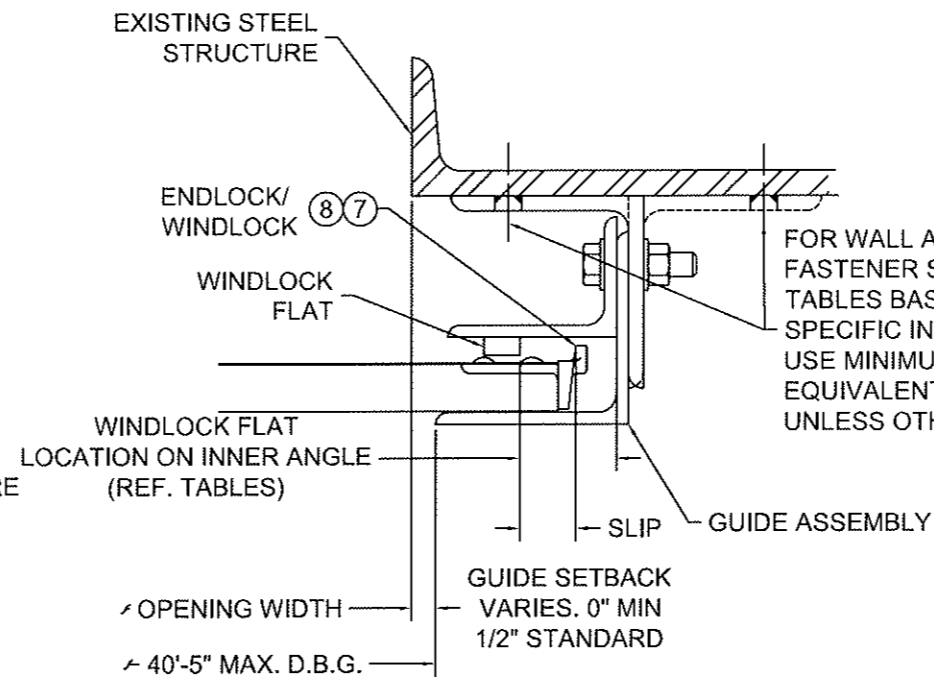
 COOKSON THE COOKSON COMPANY, INC.	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.390.8590 F: 866.448.6798 E: ADS@COOKSONDOOR.COM	Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 1/32 ANGLES = +/- 1/2 DEG
	TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-64-TCCI

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*	ORIGINAL ISSUE	10/20/14	TJE	1615

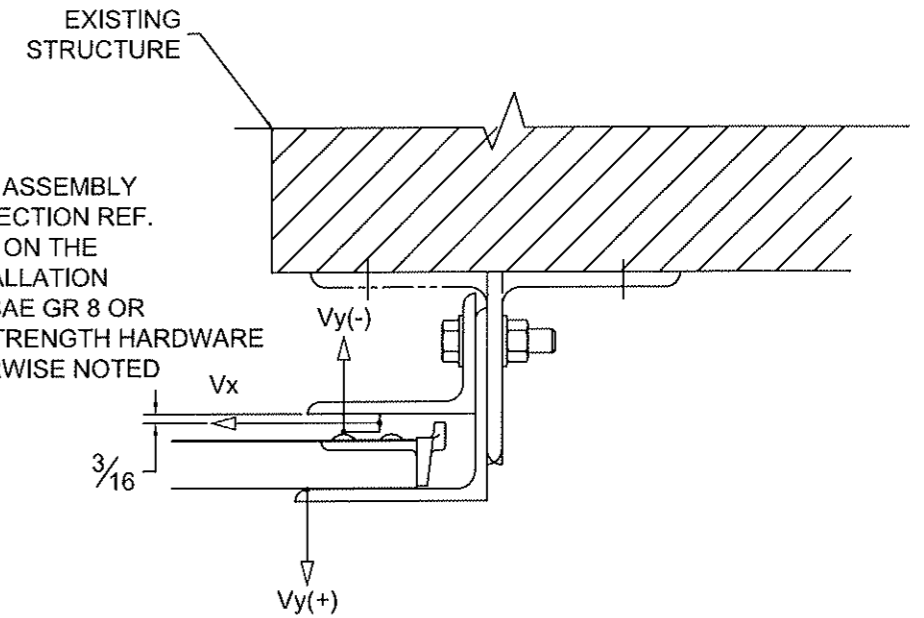


NOTE:
THROUGH BOLTING TO FILLED BLOCK REQUIRES THE USE OF 1/4" THICK STEEL OR STAINLESS STEEL CRUSH PLATE

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



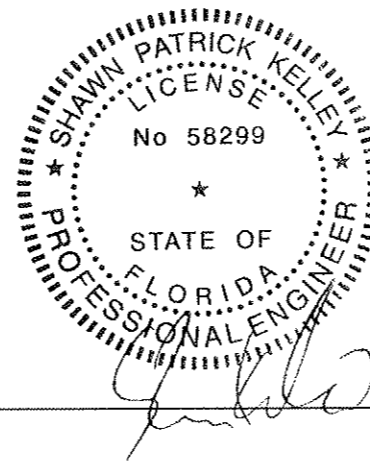
(6) GUIDE ASSEMBLY
STEEL STRUCTURE
(Z-GUIDE OR E-GUIDE)




NOTE:

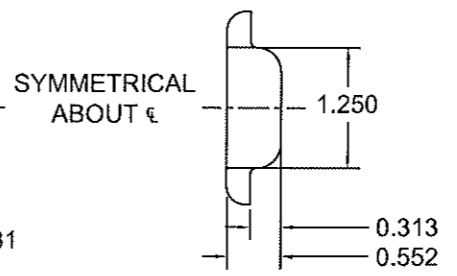
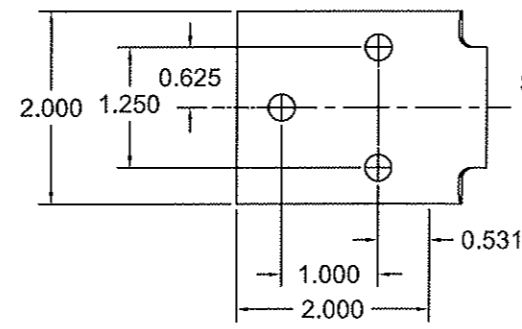
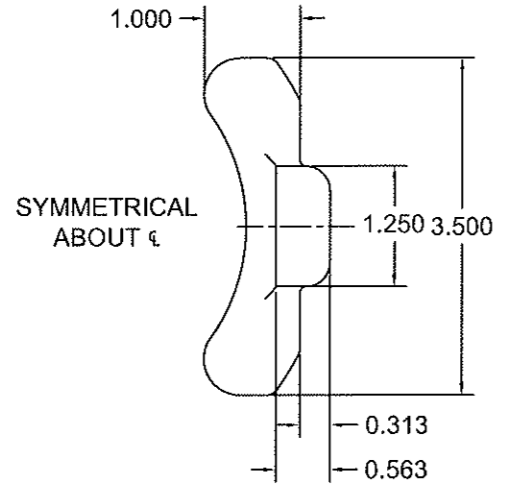
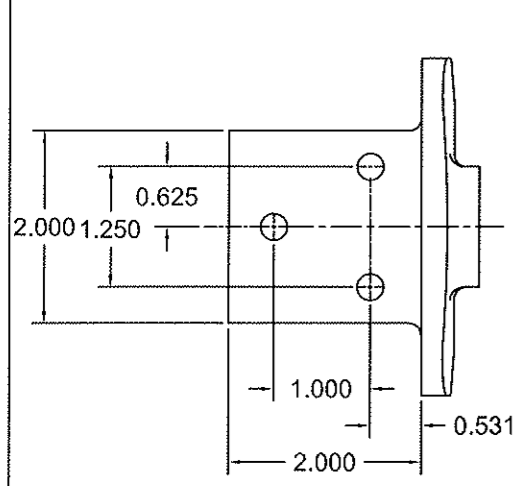
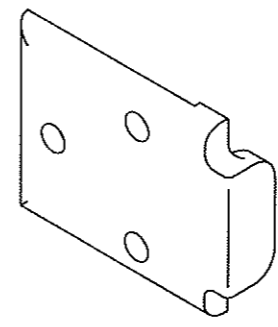
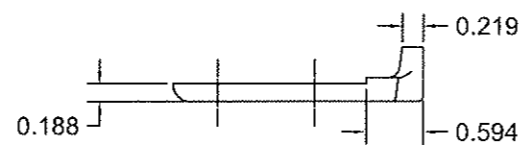
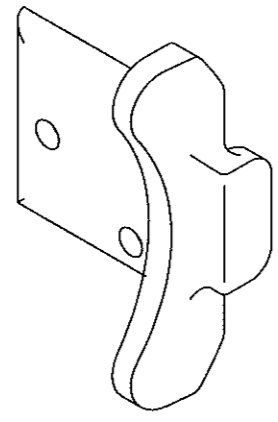
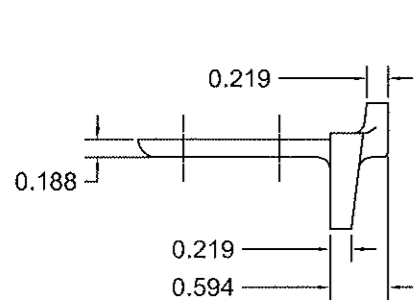
1. Vx & Vy ARE HORIZ. AND VERT. COMPONENTS OF THE REACTION, RESPECTIVELY, RESULTING FROM WIND LOADS ON THE ROLL-UP DOOR. THE EXISTING STRUCTURE SHALL BE CAPABLE OF RESISTING Vx & Vy FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE ECCENTRICITIES OF THE FORCES.

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



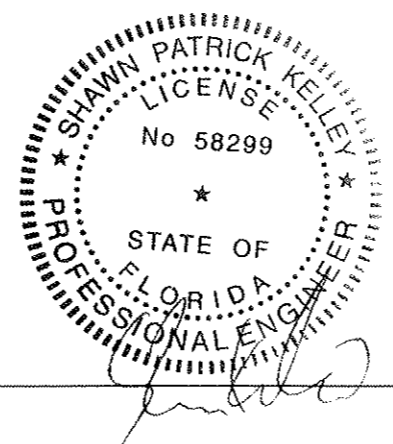
 COOKSON <small>THE COOKSON COMPANY, INC.</small>	24 ELMWOOD AVE 1901 S. LITCHFIELD RD MOUNTAINTOP, PA GOODYEAR, AZ 800 TULIP DRIVE GASTONIA, NC P: 800.390.8590 F: 866.448.6798 E: ADS@COOKSONDOOR.COM	Unless otherwise specified, dimensions are in inches & tolerances are: 0.000 = +/- 0.031 FRACTIONAL = +/- 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
DWG NO: ES-16-64-TCCI					


L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/20/14	TJE	1615



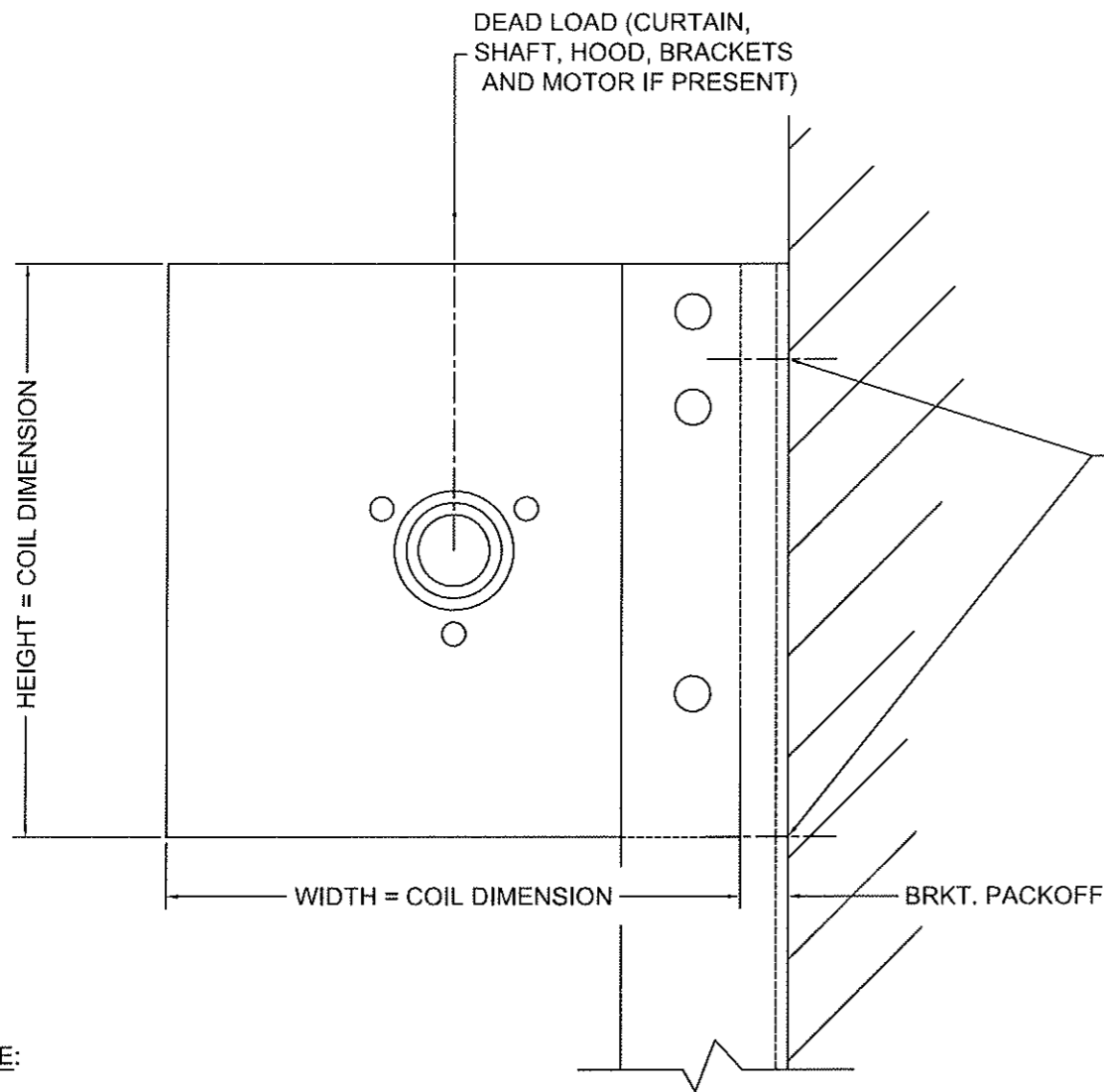
⑦ CP0630 ENDLOCK / WINDLOCK DETAIL
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH
 ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE

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

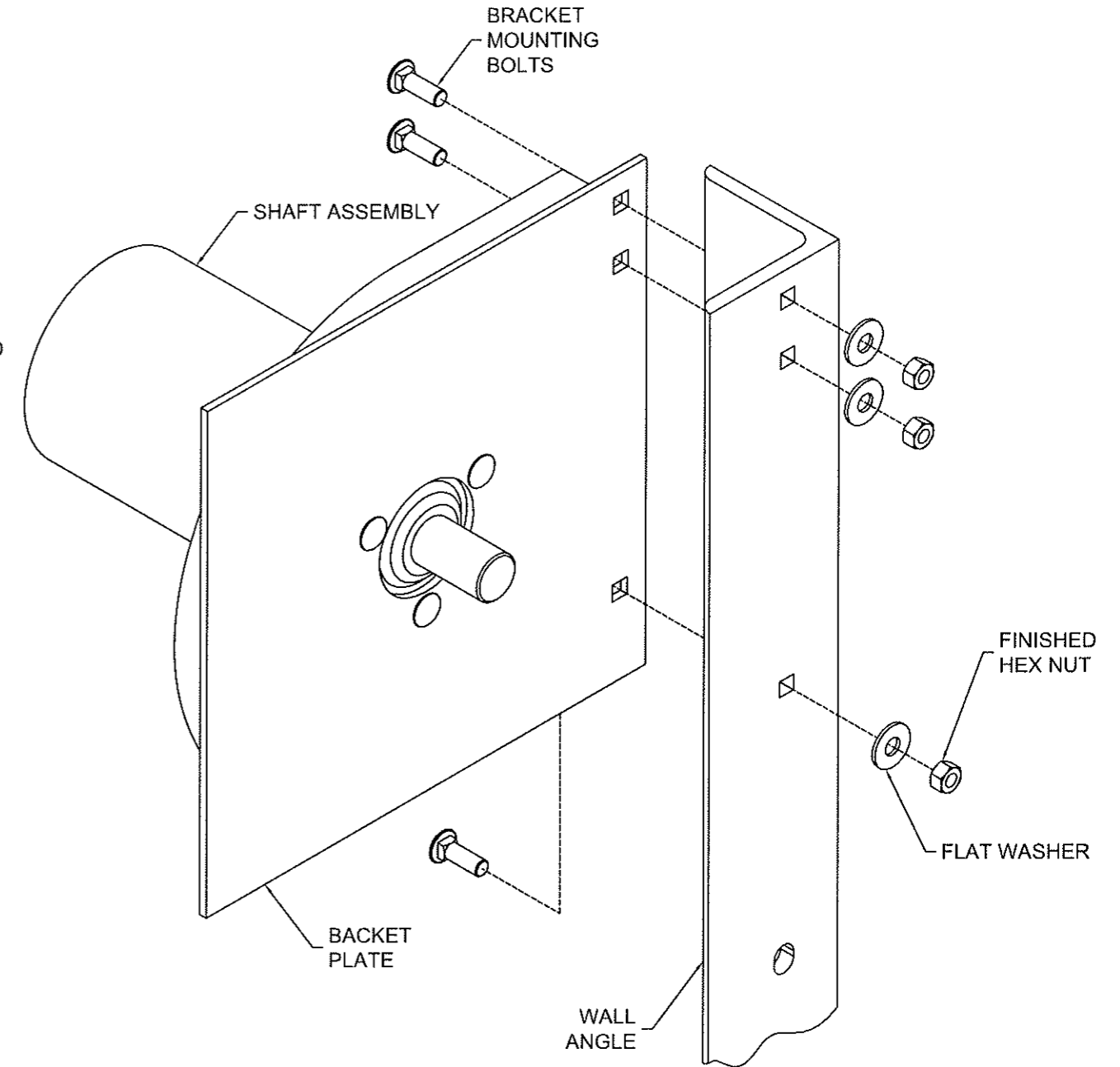


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		TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED	DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED
DWG NO: ES-16-64-TCCI					

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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.

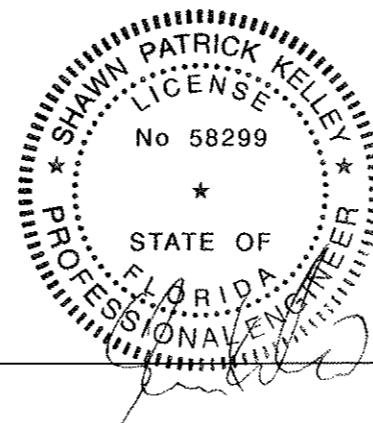


NOTE:

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".

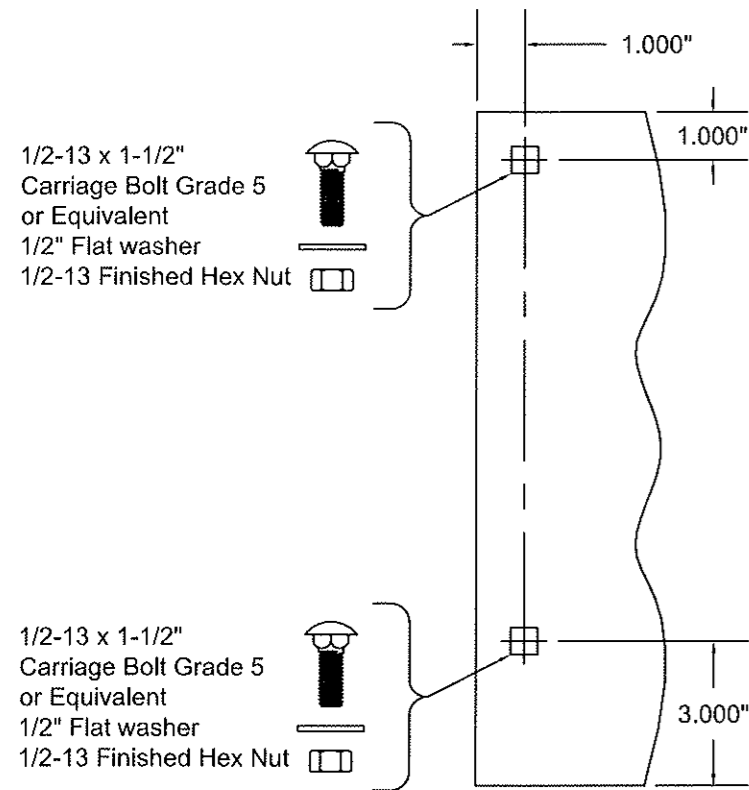
NOTE:

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



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		<p>TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED</p>	<p>DRAWN BY: TJE</p>
<p>DWG NO: ES-16-64-TCCI</p>		<p>SHEET: 5/13</p>	

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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.

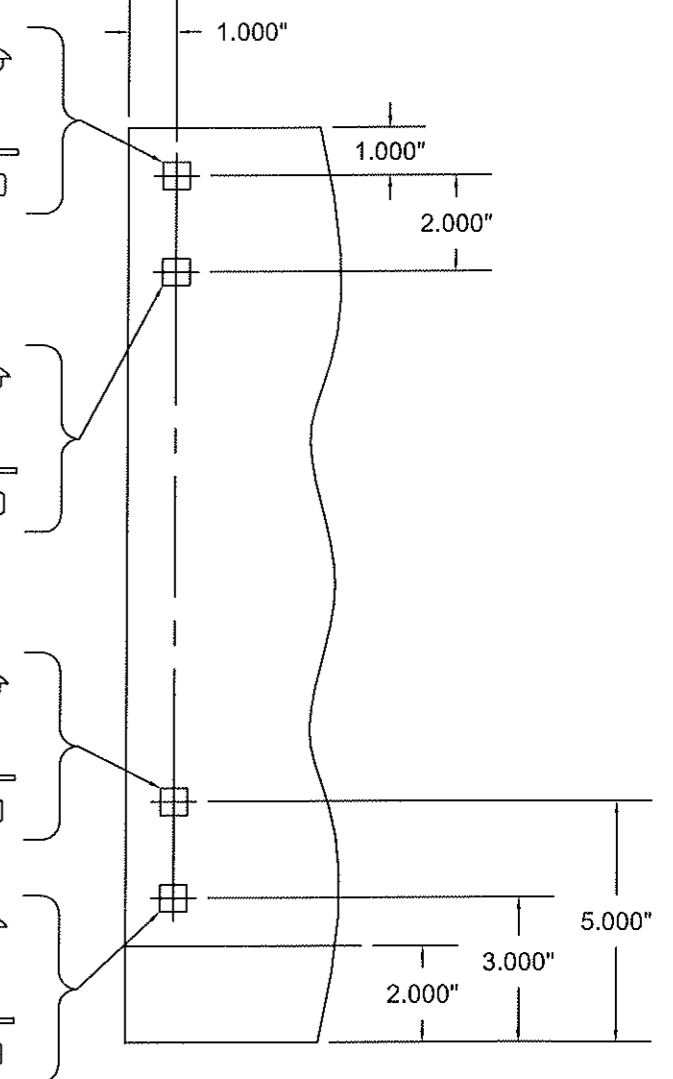
THRU 10"Ø SHAFT ASSEMBLY
17" AND LARGER COIL DIMENSION
MIN. THICKNESS 0.240" ASTM A36
OR ASTM A480 STAINLESS STEEL,
TYPES 304 OR 316, MINIMUM 36 KSI YIELD STRENGTH
SCALE: 1-1/2" = 1'-0"

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

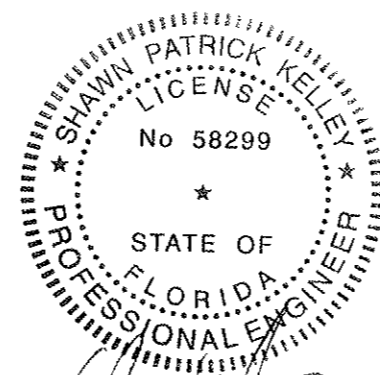
1/2-13 x 1-1/2"
Carriage Bolt Grade 5
or Equivalent
1/2" Flat washer
1/2-13 Finished Hex Nut

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"



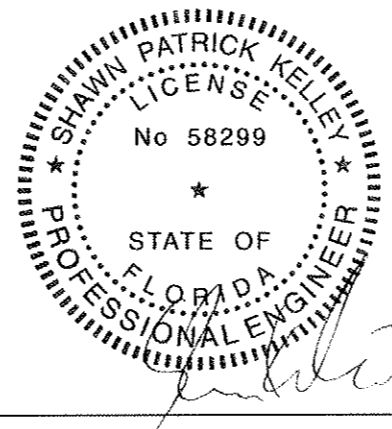
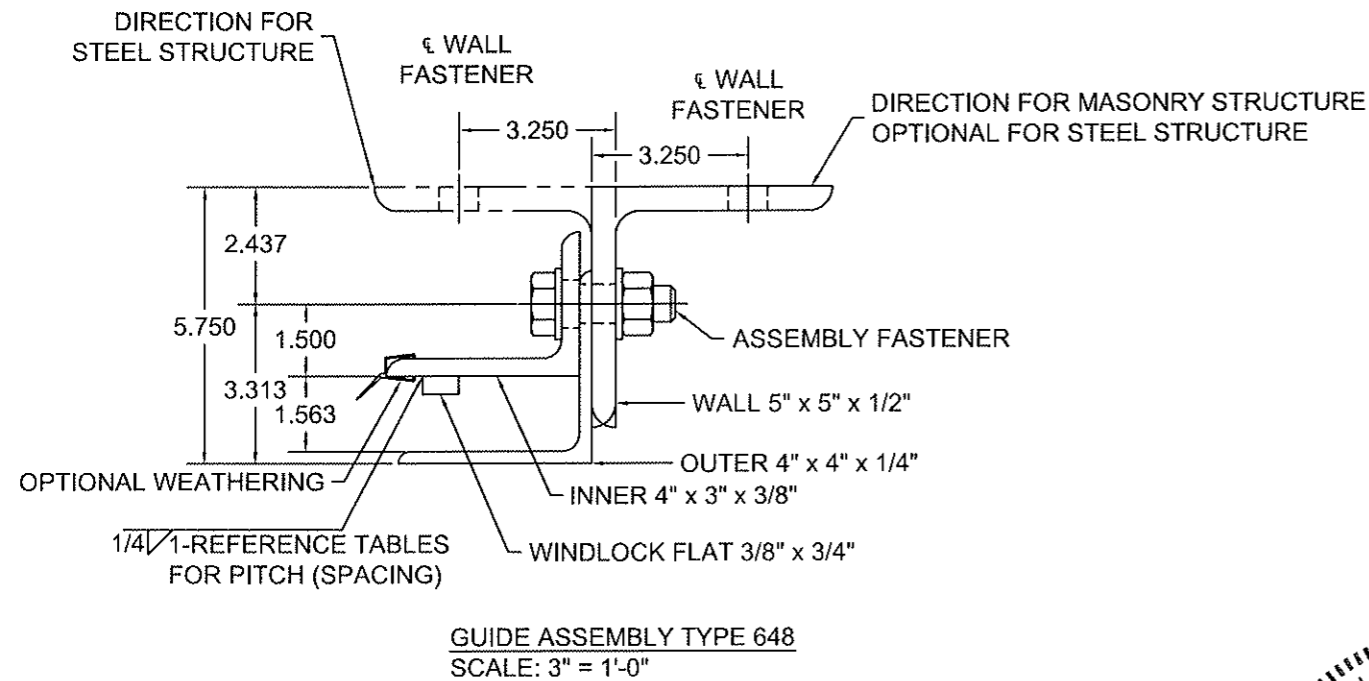
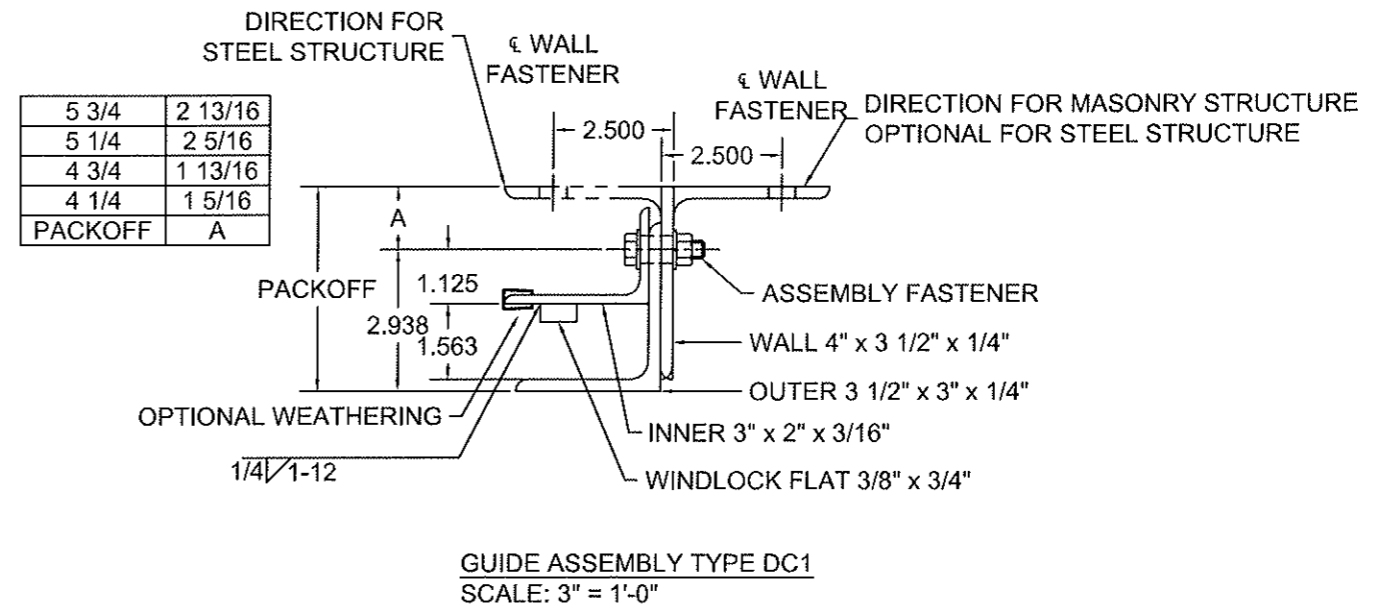
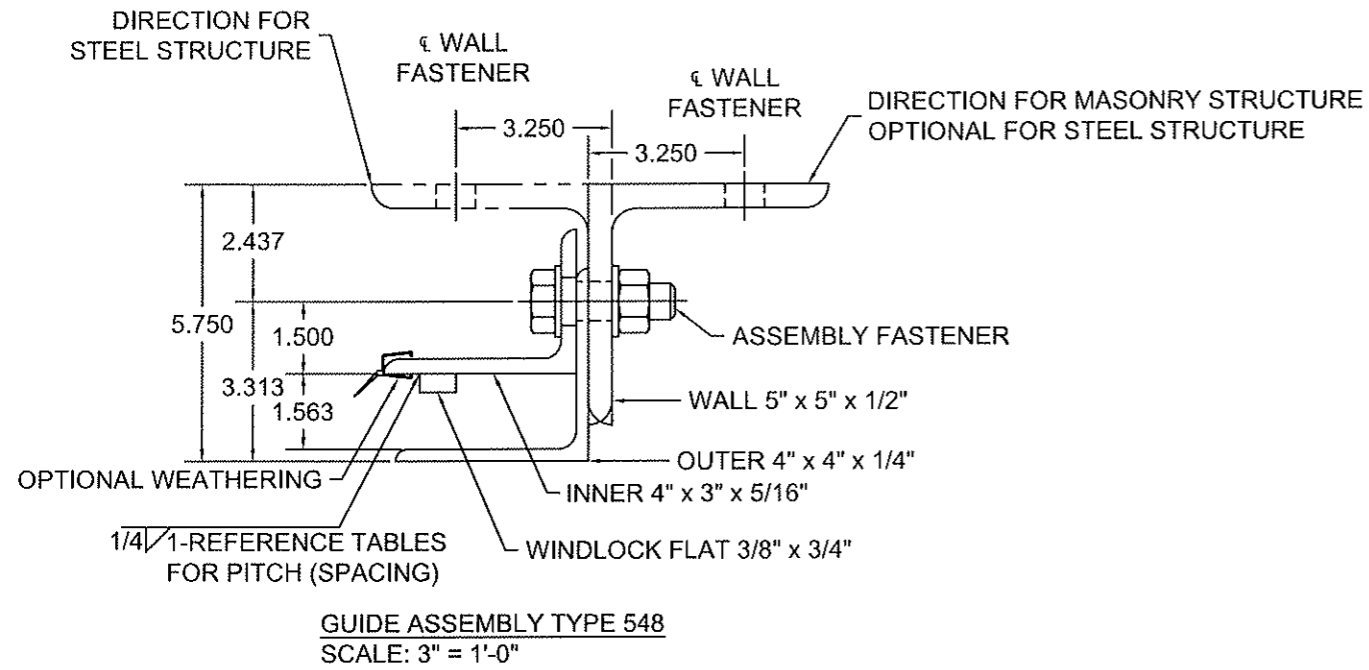
24 ELMWOOD AVE 1901 S. LITCHFIELD RD
 MOUNTAINTOP, PA GOODYEAR, AZ
 800 TULIP DRIVE
 GASTONIA, NC
 P: 800.390.8590
 F: 866.448.6798
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Unless otherwise specified,
 dimensions are in inches &
 tolerances are:
 0.000 = +/- 0.031
 FRACTIONAL = +/- 1/32
 ANGLES = +/- 1/2 DEG

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

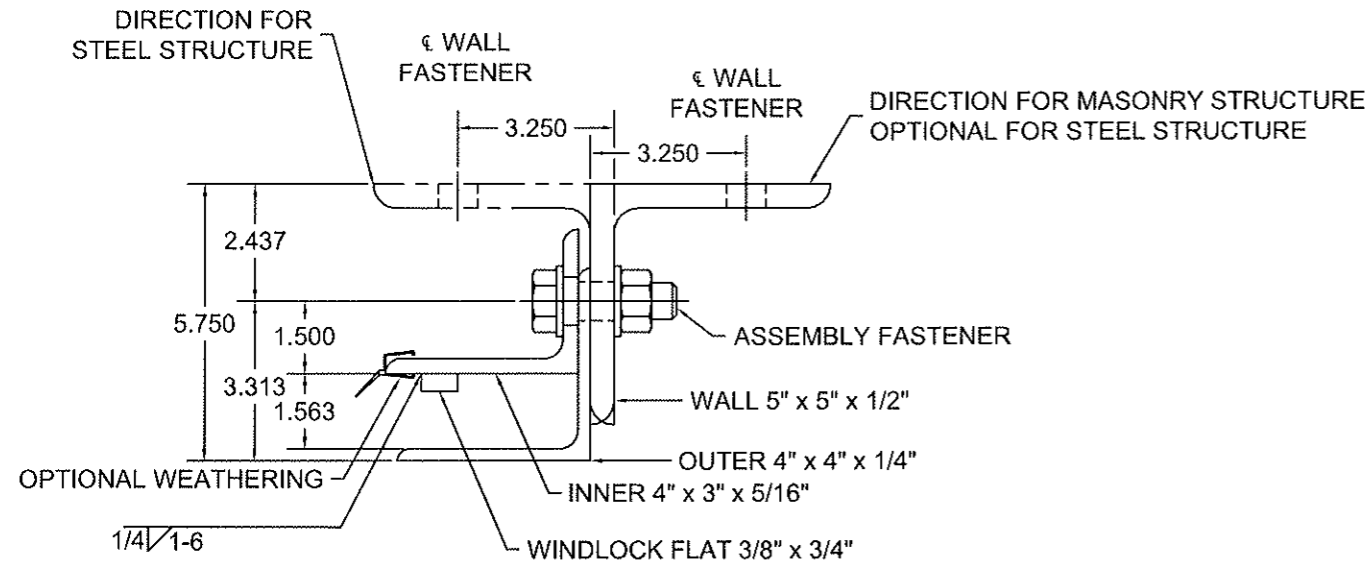
DRAWN BY: **TJE** SIZE: **B** SCALE: **AS NOTED** SHEET: **6/13**
 DWG NO: **ES-16-64-TCCI**

L/TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/16/14	TJE	1615

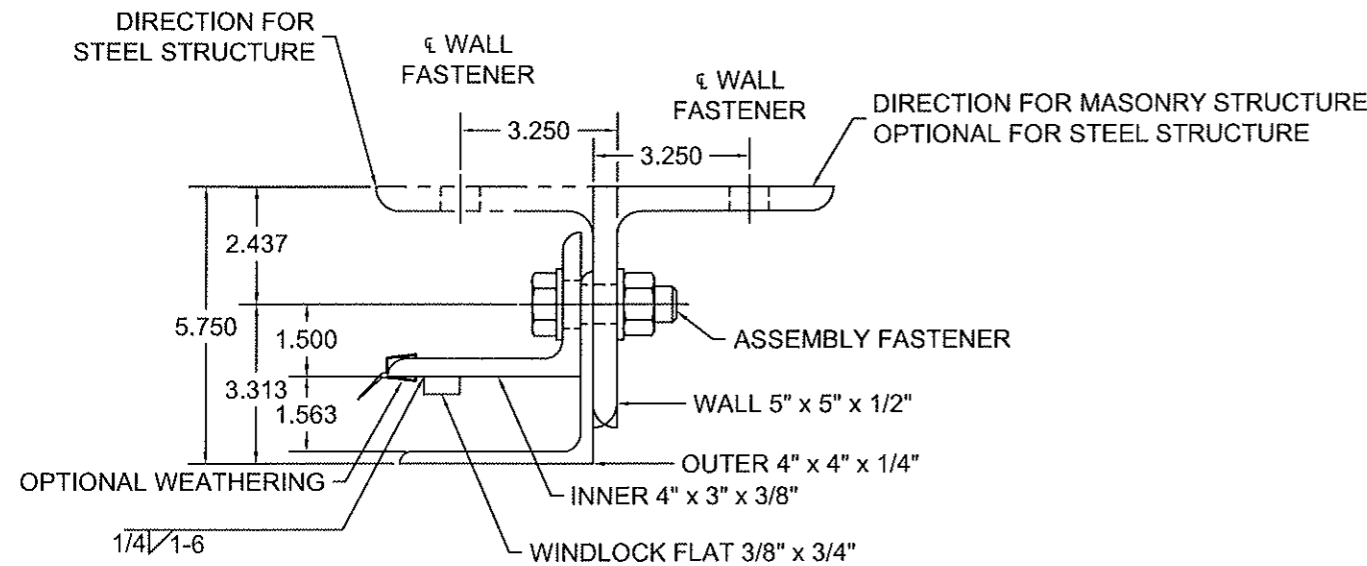


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		<p>TITLE: WIND LOAD CONFIGURATION INSULATED ROLLING STEEL DOOR CP0001/CP0651 SLAT IMPACT RATED</p>	<p>DRAWN BY: TJE</p>	<p>SIZE: B</p>	<p>SCALE: AS NOTED</p>
<p>DWG NO: ES-16-64-TCCI</p>					

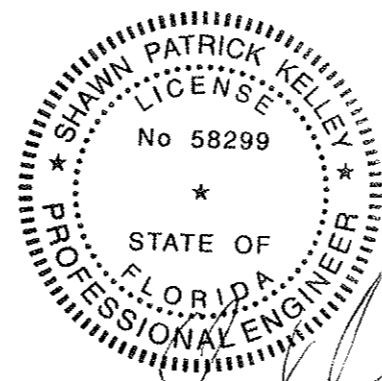
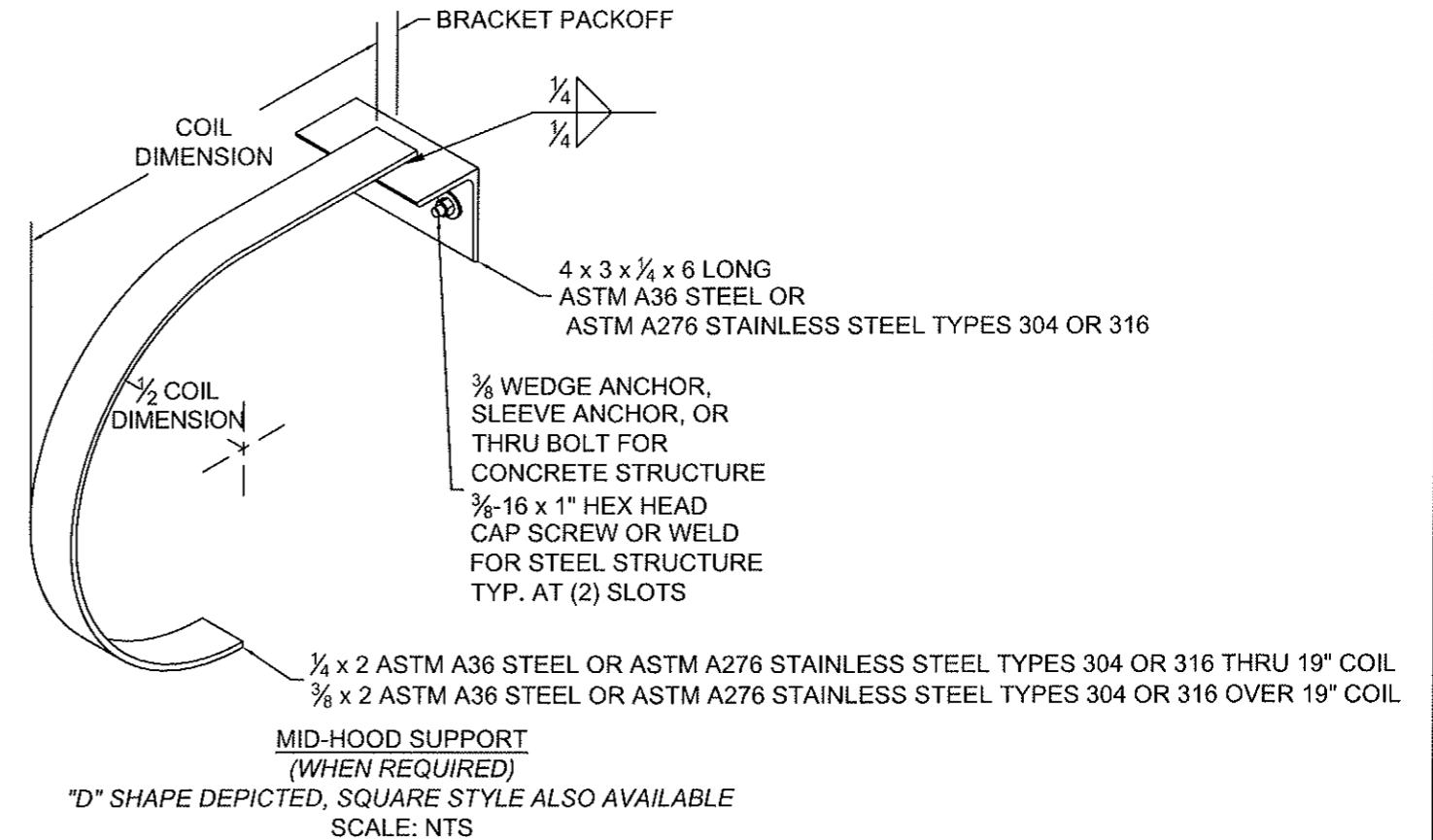
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*	ORIGINAL ISSUE	10/16/14	TJE	1615




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



GUIDE ASSEMBLY TYPE DC3
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
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*	ORIGINAL ISSUE	11/18/14	TJE	1615

OBS 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)	
								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.
5'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	3/4	5 1/4	5 3/4	10	3/8	5 3/4	36	7/16 x 5/8	36	36	3/16	0	165	0	163
6'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	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"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	7/16 x 5/8	36	36	3/16	0	225	0	223
8'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	7/16 x 5/8	36	36	3/16	0	255	0	253
9'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	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	285	0	283
10'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	8	3/4	4 3/8	5 3/4	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	315	0	313
12'-5"	1 5/16	0.469	CP0630 & CP0647	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	6 3/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	8	N/A	N/A	18	5/16 x 3/4	18	18	1/4	340	375	288	273	
14'-5"	1 7/16	0.594	CP0630 & CP0647	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	N/A	N/A	N/A	N/A	12	1/2	6 13/16	25	9/16 x 3/4	25	14	1/4	954	434	930	434				
15'-5"	1 1/2	0.656	CP0630 & CP0647	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 3/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16	N/A	N/A	N/A	N/A	9	1/2	6 13/16	20	9/16 x 3/4	20	11	1/4	1226	464	1156	465				
16'-5"	1 5/8	0.781	CP0630 & CP0647	445	8	1/2	13	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 13/16	7	4 3/8	6 3/16	6 13/16	6	3 1/2	5 1/4	6 13/16	N/A	N/A	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"	1 7/8	1.031	CP0630 & CP0647	445	8	1/2	12	N/A	N/A	N/A	N/A	8	4 1/2	6 3/4	6 13/16	6	4 3/8	6 3/16	6 13/16	7	4	5	6 13/16	N/A	N/A	N/A	N/A	8	1/2	6 13/16	18	9/16 x 3/4	18	10	1/4	1347	523	1376	524				
18'-5"	2	1.156	CP0630 & CP0647	446	8	5/8	15	N/A	N/A	N/A	N/A	10	4 1/2	6 3/4	6 7/8	N/A	N/A	N/A	6 13/16	9	5	7 1/2	6 7/8	N/A	N/A	N/A	N/A	10	5/8	6 7/8	25	1 1/16 x 7/8	25	14	5/16	1488	552	1470	552				
19'-5"	2	1.156	CP0630 & CP0647	446	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	6 13/16	8	5	7 1/2	6 7/8	N/A	N/A	N/A	N/A	9	5/8	6 7/8	21	1 1/16 x 7/8	21	11	5/16	1745	587	1727	584				
20'-5"	2	1.156	CP0630 & CP0647	446	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	6 13/16	7	5	7 1/2	6 7/8	N/A	N/A	N/A	N/A	8	5/8	6 7/8	18	1 1/16 x 7/8	18	10	5/16	1990	633	1978	634				
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	3/4	7 1/2	36	1 3/8 x 1	36	25	3/8	1979	641	1761	642				
22'-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	N/A	N/A	N/A	N/A	10	3/4	7 1/2	36	1 3/8 x 1	36	27	3/8	1990	672	1972	672				
23'-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	N/A	N/A	N/A	N/A	9	3/4	7 1/2	36	1 3/8 x 1	36	20	3/8	2108	702	2189	702				
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	11	5	7 1/2	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	15	1 3/16 x 1	15	15	3/8	2612	761	2395	762				
26'-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	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	1 3/16 x 1	28	15	3/8	2619	752	2602	753				
27'-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	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	27	1 3/16 x 1	27	14	3/8	3026	822	3009	823				
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	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	1 3/16 x 1	25	13	3/8	3233	853	3217	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	7 1/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	1 3/16 x 1	23	12	3/8	3442	883	3426	884							

OBS 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		Vx (+)	Vy (+)	Vx (-)	Vy (-)	
								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.
5'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	179	0	177
6'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	12	3/4	4 3/8	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"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	3/4	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"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	7/16 x 5/8	36	36	3/16	0	277	0	274
9'-5"	1 1/2	0.656	CP0630 & CP0647	344	12	3/8	18	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	8	3/4	4 3/8	5 3/4	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	309	0	307
12'-5"	1 5/16	0.469	CP0630 & CP0647	DC1	12	1/2	18	16	3 1/2	5 1/4	5 3/4	16	4 1/2	6 3/4	6 3/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	1/2	3 1/2	5 3/4	8	1/2	4 1/2	8	N/A	N/A	18	5/16 x 3/4	18	18	1/4	504	406	450	428	
14'-5"	1 7/16	0.594	CP0630 & CP0647	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	N/A	N/A	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"	1 1/2	0.656	CP0630 & CP0647	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 3/8	6 3/16	6 13/16	7	4	6	6 13/16	N/A	N/A	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"	1 5/8	0.781	CP0630 & CP0647	445	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	6 13/16	9	5	7 1/2	6 7/8	N/A	N/A	N/A	N/A	10	5/8	6 7/8	24	1 1/16 x 7/8	24	13	5/16	1555	535	1527	536				
17'-5"	1 7/8	1.031	CP0630 & CP0647																																								

