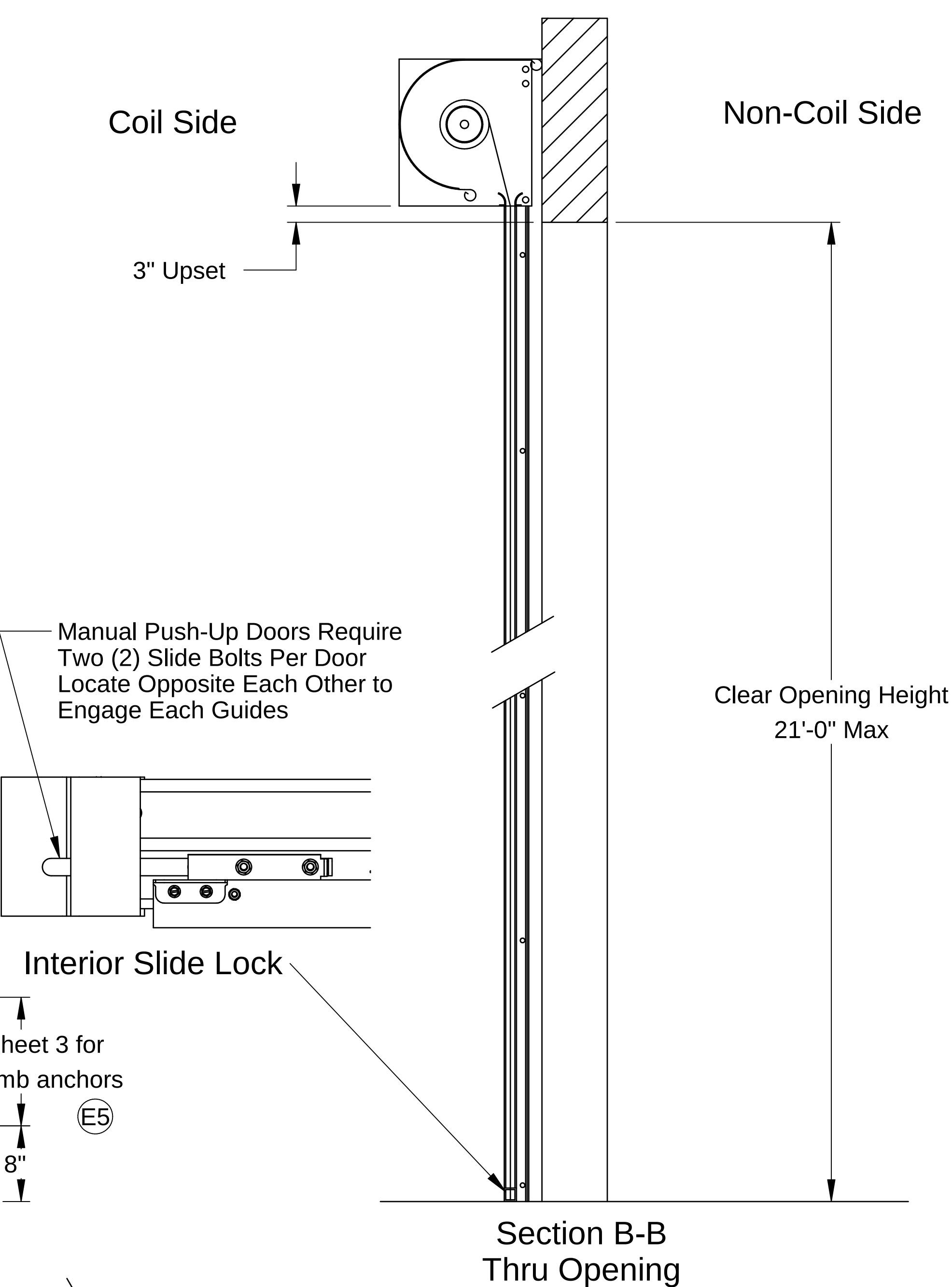
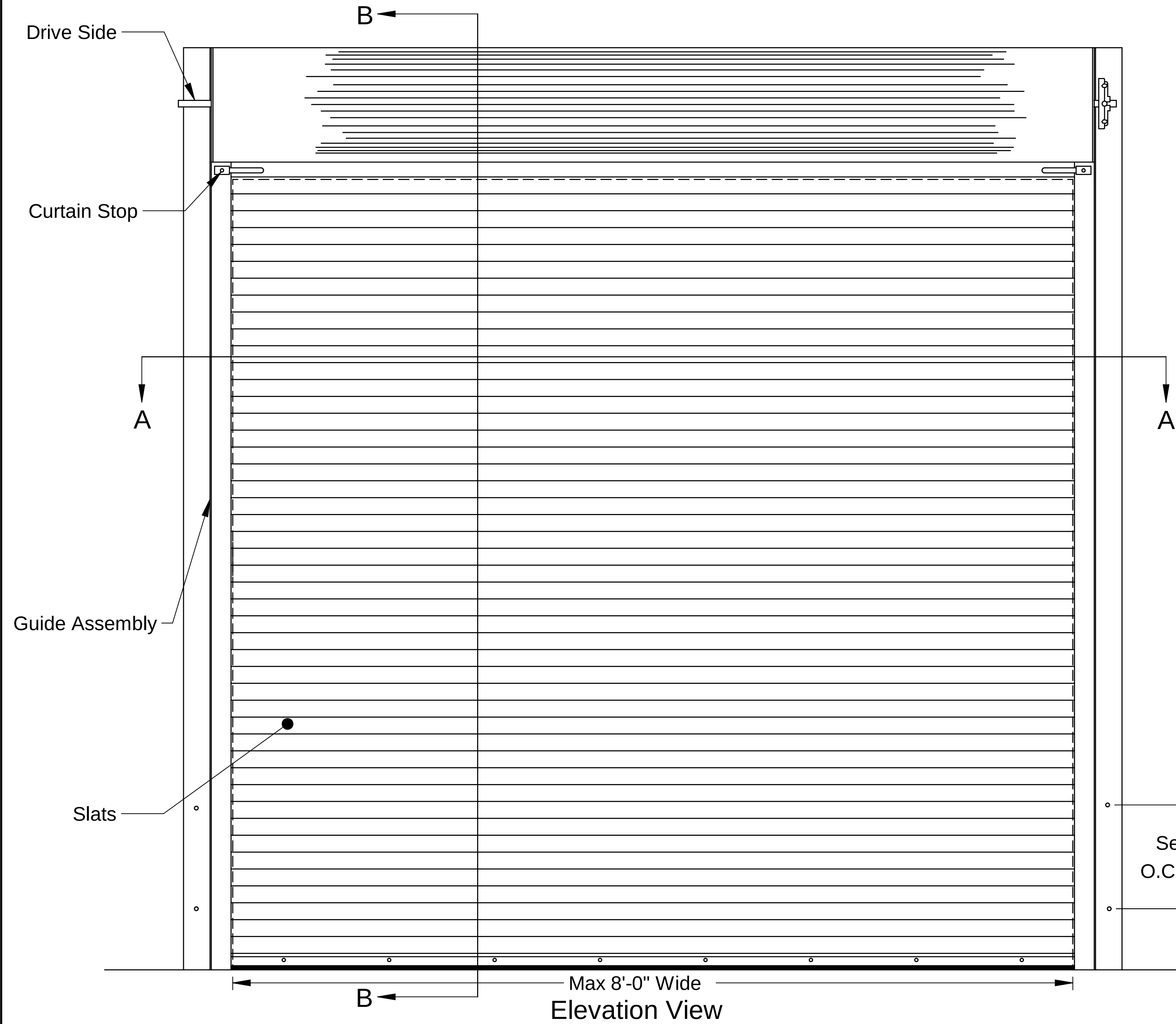


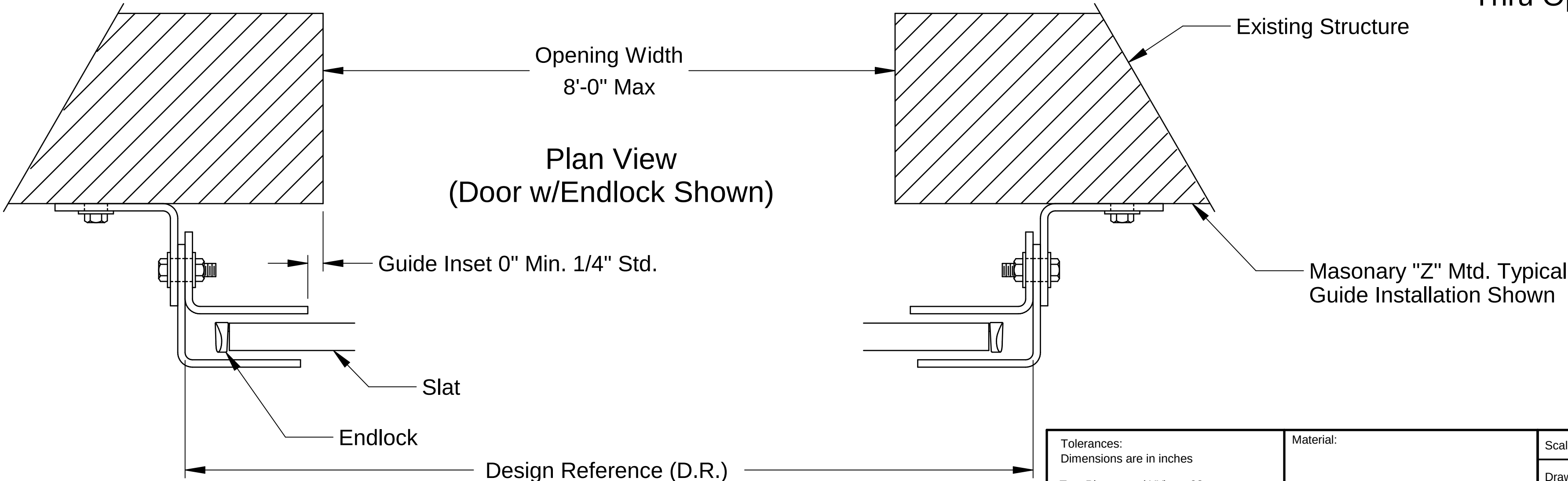


Doors Tested Per TAS 202
For Static Air Pressure

Tested Per TAS 201, TAS 203
For
Large Missile impact (50ft./sec)
and Cyclic Wind Pressure
Design Pressure +/- 65 PSF

Complies with the Wind Load
requirements of the IBC/IRC 2018

Wind loaded doors are designed,
tested, and sold by PSF.
The AHJ of a given jobsite is responsible
for determining the appropriate PSF.



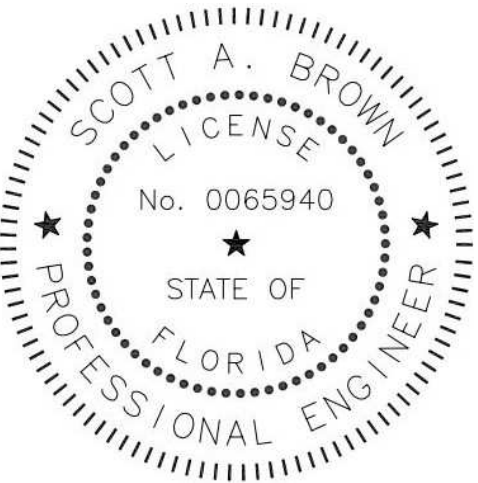
Tolerances: Dimensions are in inches	
Two Place (.XX)	± .03
Three Place (.XXX)	± .015
Angles	± 1°
Unless otherwise specified	

Material:	
Finish:	

Scale: None
Drawn by: M. Reutzel
Checked by: J. Bonnell
Date: 09/10/13
ECO: 4696

RAYNOR	
1101 East River Road Dixon, IL. 61021	

Title: Spec. Wind Load Doors For Florida HVHZ Approvals Up To 8' Wide 18 GA Minimum Series UF/FF/IF		
No. P-1286	Sheet 1 of 4	Rev F



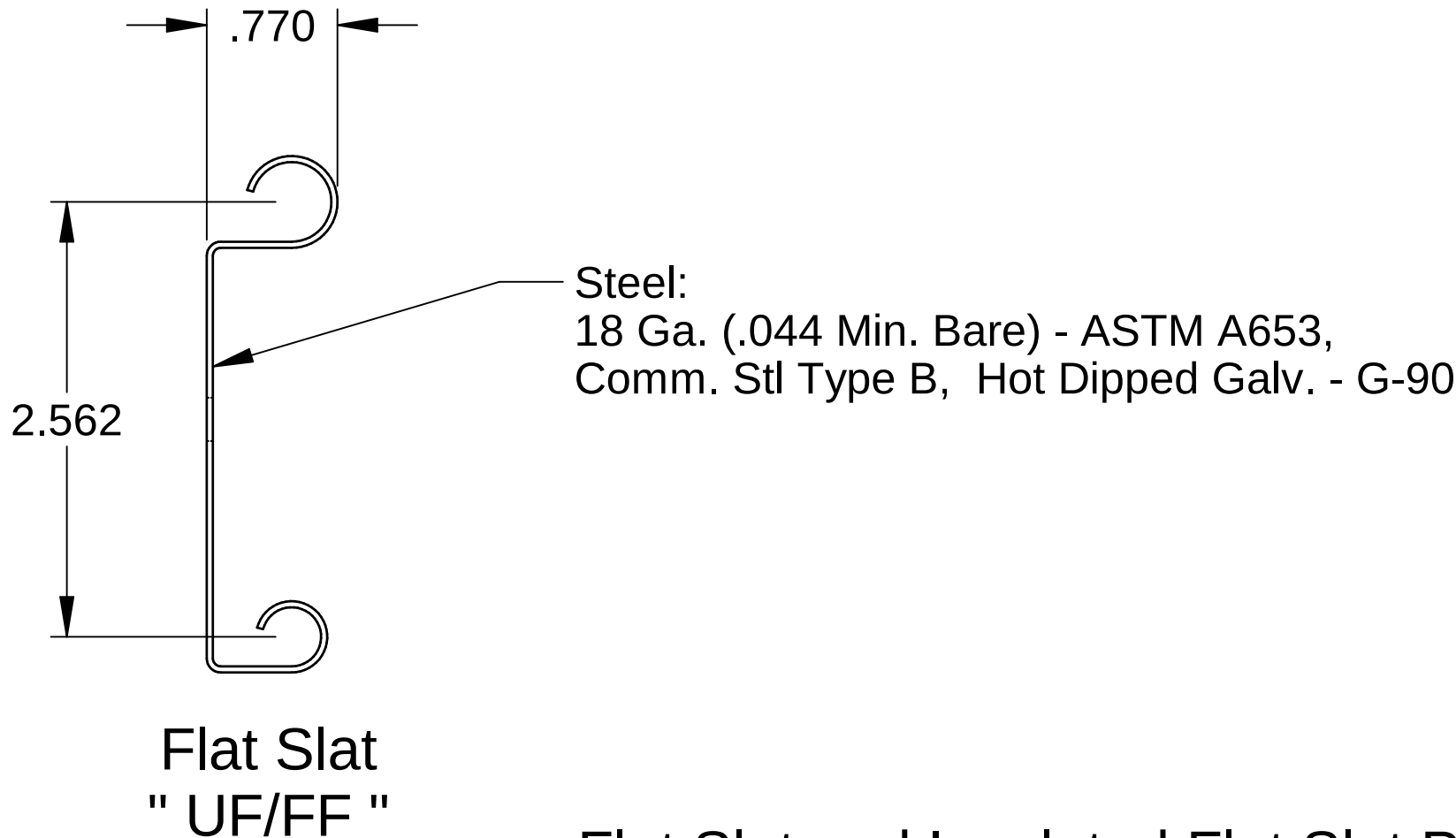
Scott A. Brown, P.E. Lic. No. 65940
Willett, Hofmann & Associates, Inc.
809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scott Brown
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Date: 2023.12.22 11:21:08-06'00'

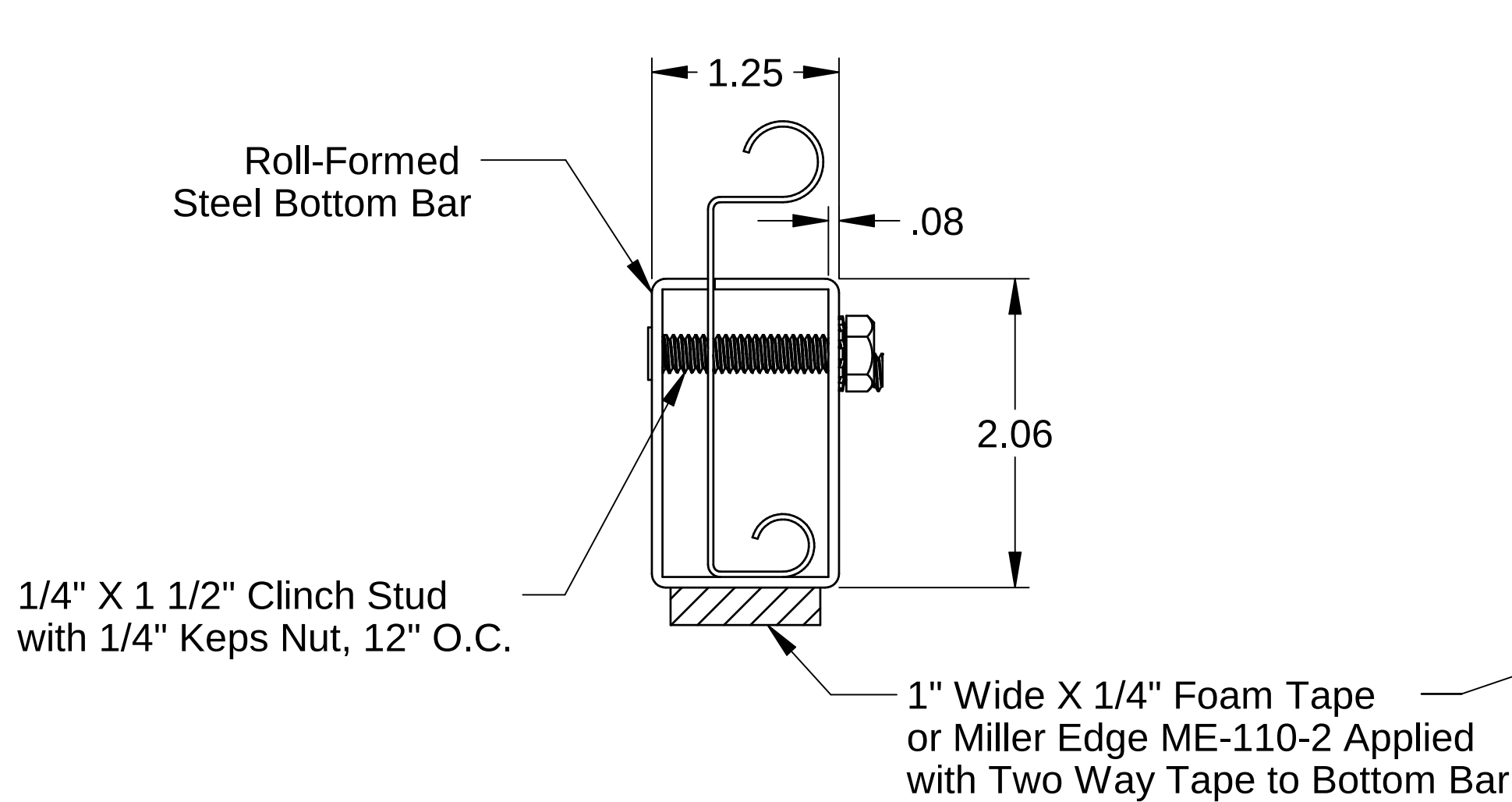
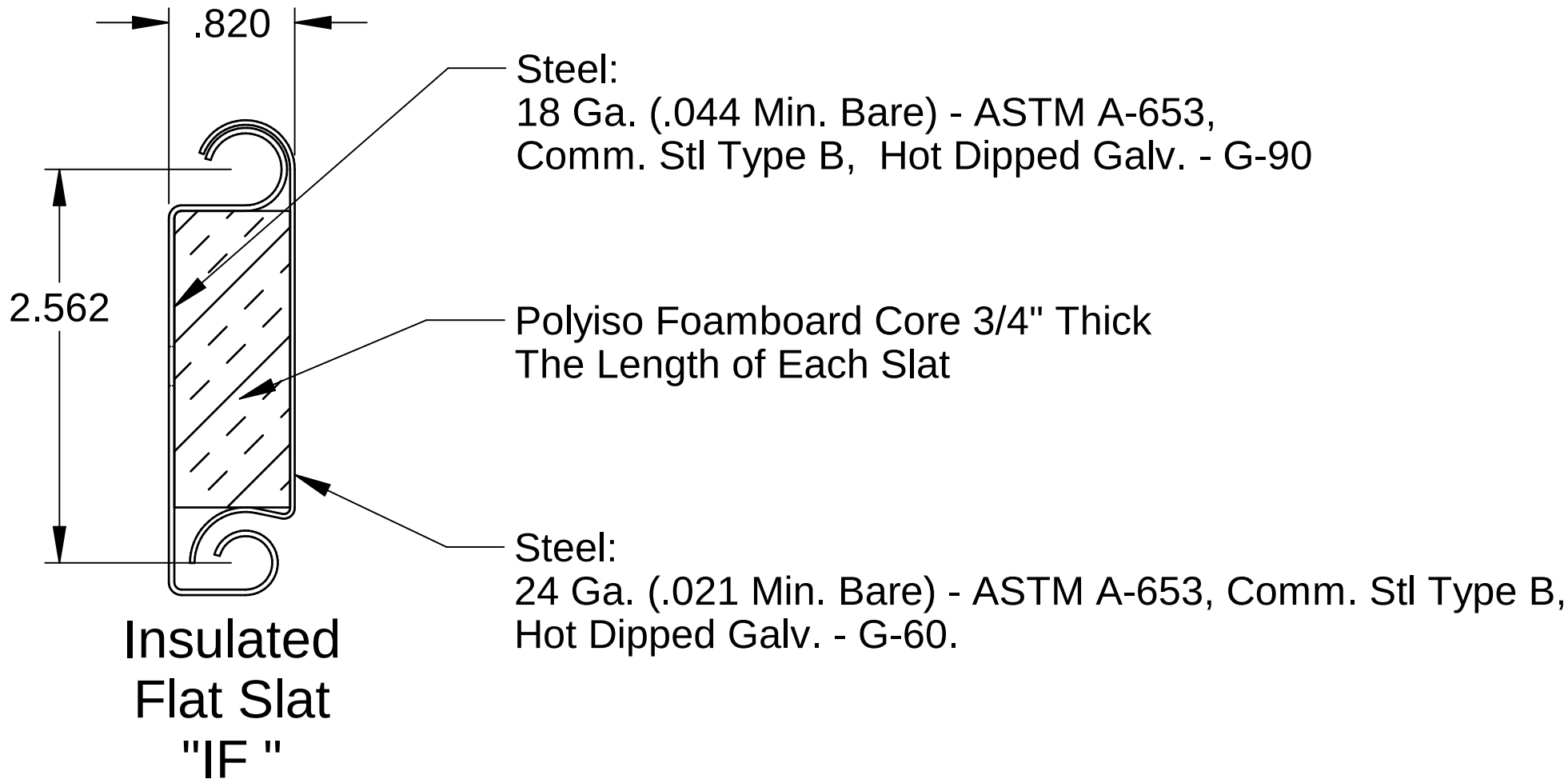
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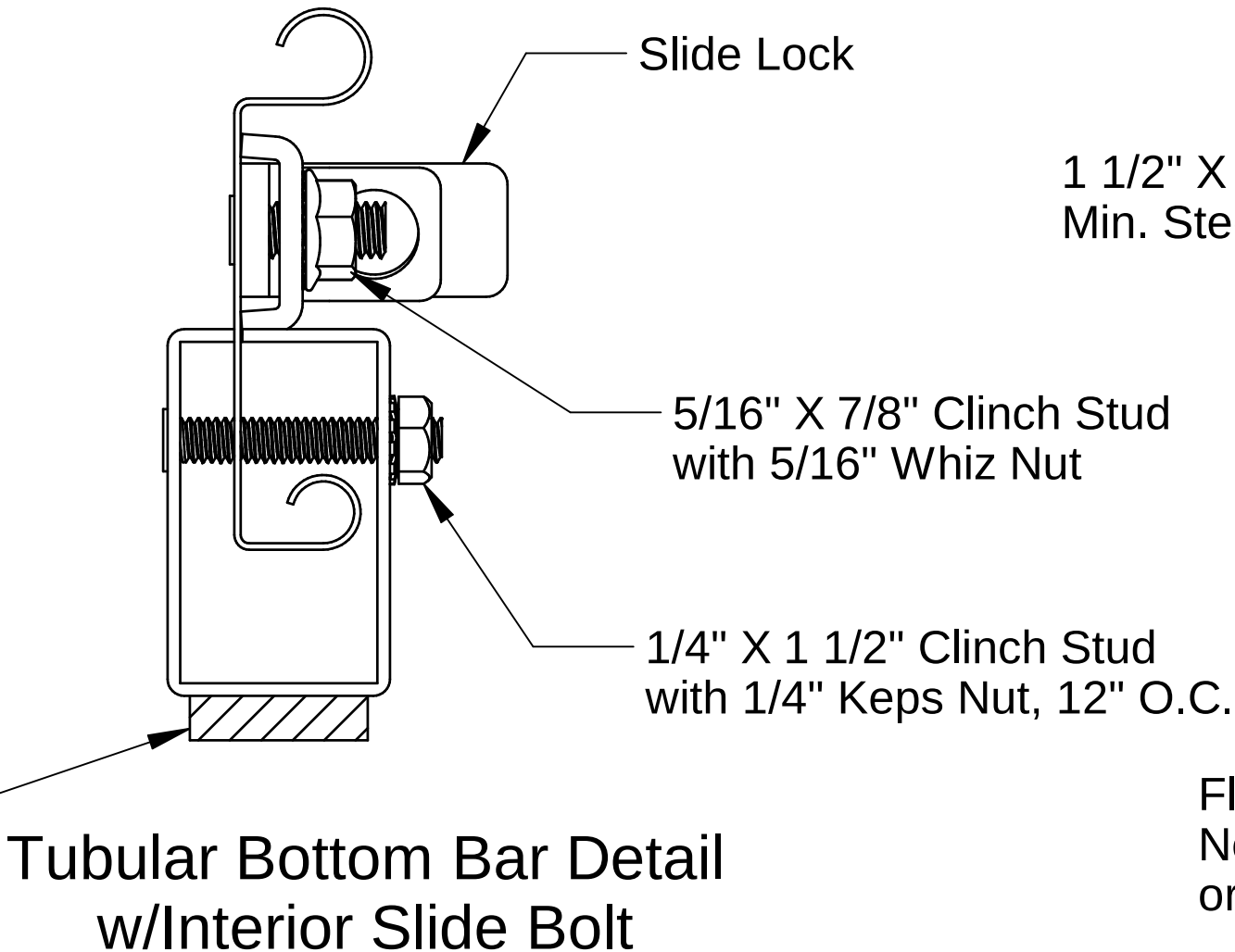
F	PE seal updated, added FL#, IBC and PSF notes sht. 1, updated title block to specify HVHZ	8973.01	10/27/23
E	1) Was 4-3/4" on sheet 3. 2) Was 7" on sheet 3. 3) Added fastener detail on sheet 3. 4) Added min. thickness note on steel "Z" mtd jamb on sheet 3. 5) Added note & dimension on sheet 1. 6) Added note on sheet 3.	8216.01	04/23/19
D	1) Updated Gen. Spec. 2 & 5(sheet 2) 2) Added 8" from Bottom to wall fastener notes (sheet 3). 3) Changed bolt spacing for Steel "Z" Mtd, was 18" O.C. (sheet 3). 4) Changed Angles from .180 to 3/16" (sheet 4)	6465.02	05/19/14
Rev.	Description	ECO	Date



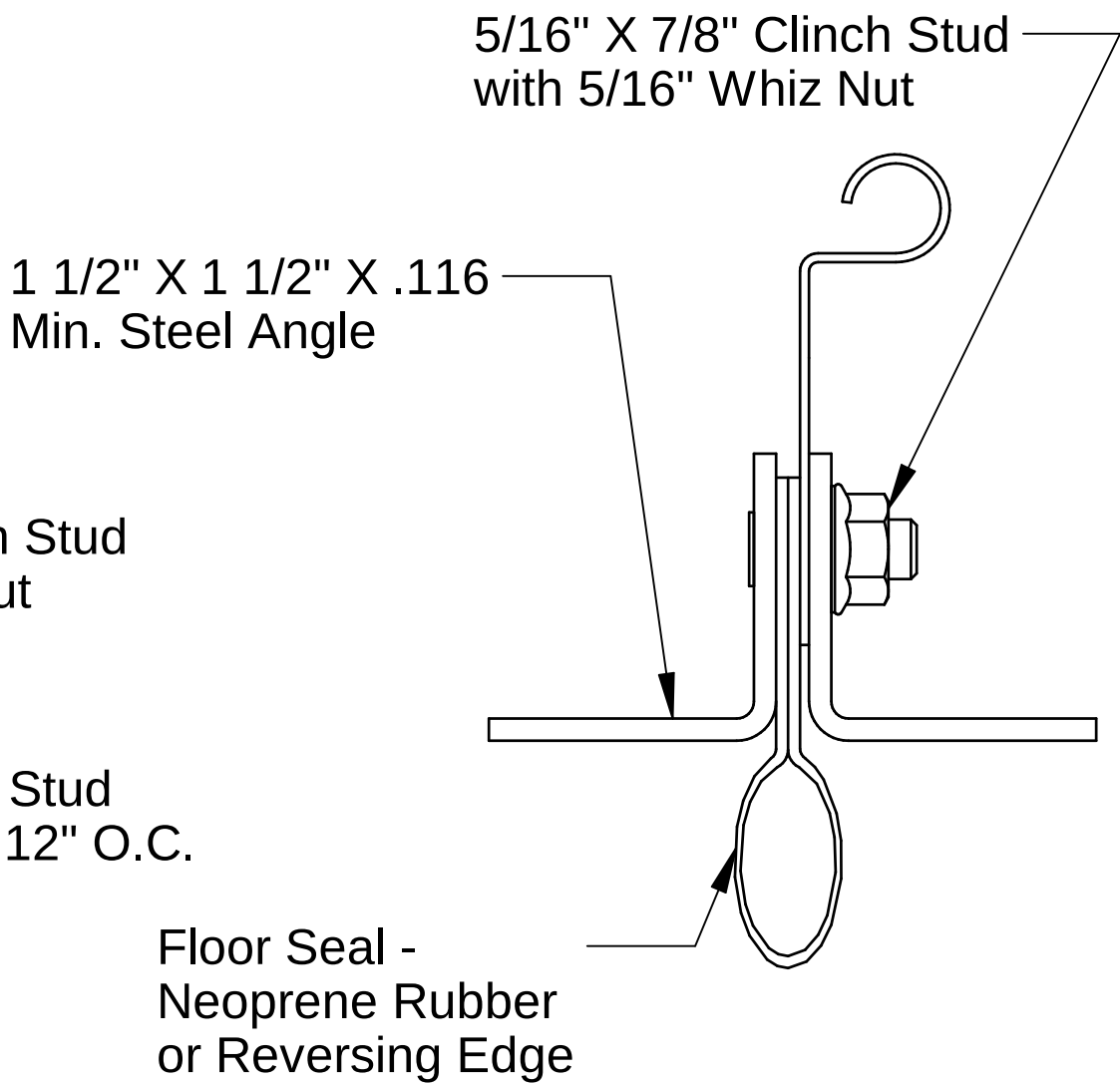
Flat Slat and Insulated Flat Slat Profiles



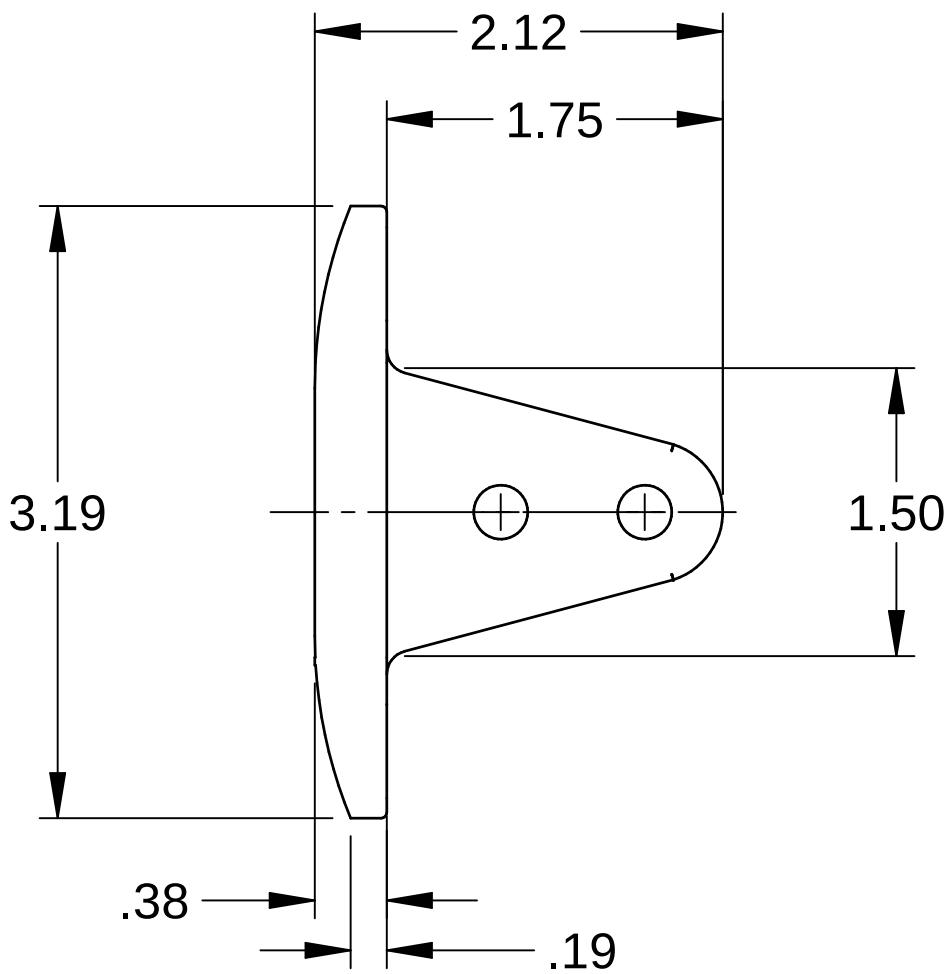
Tubular Bottom Bar Detail



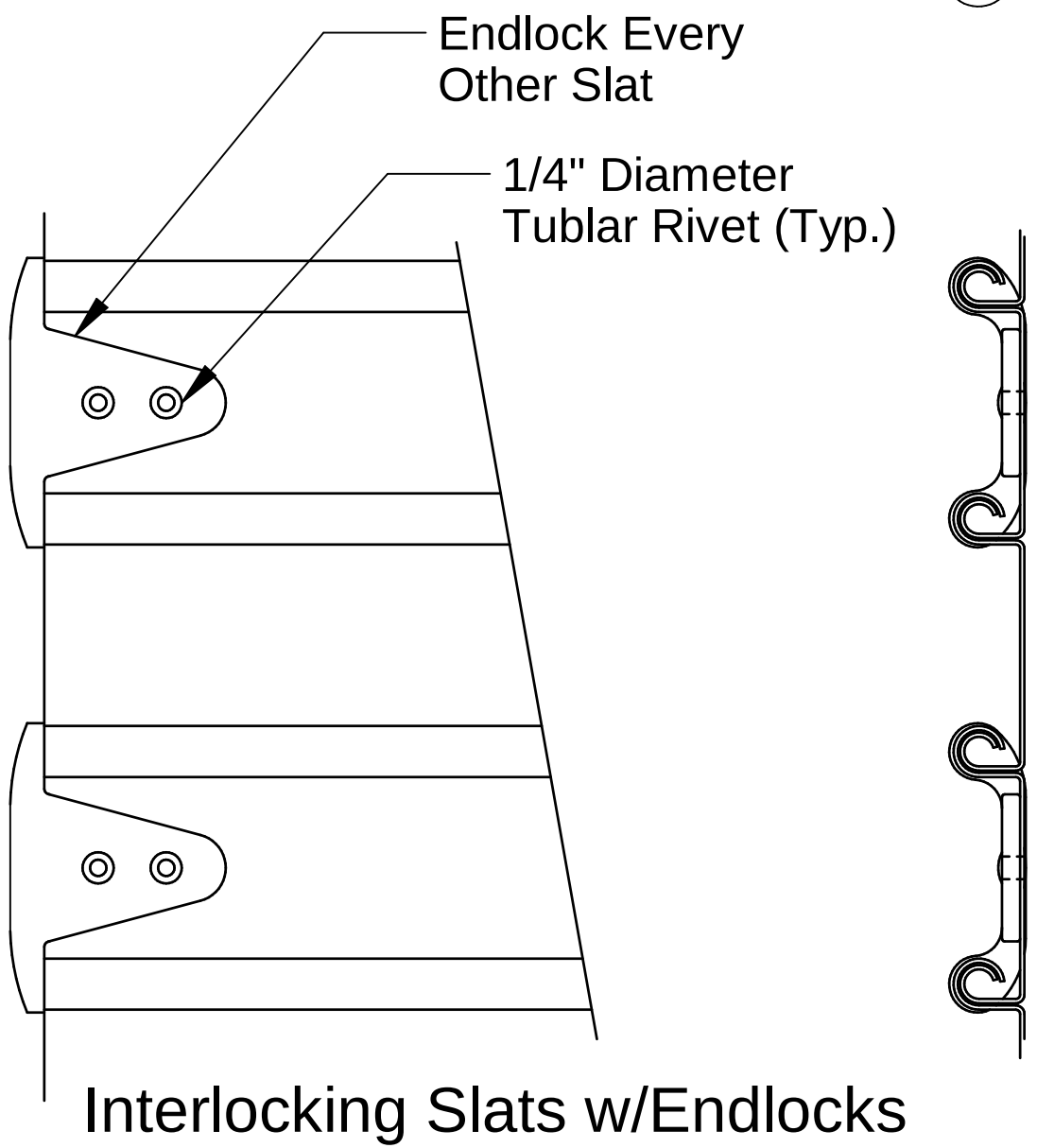
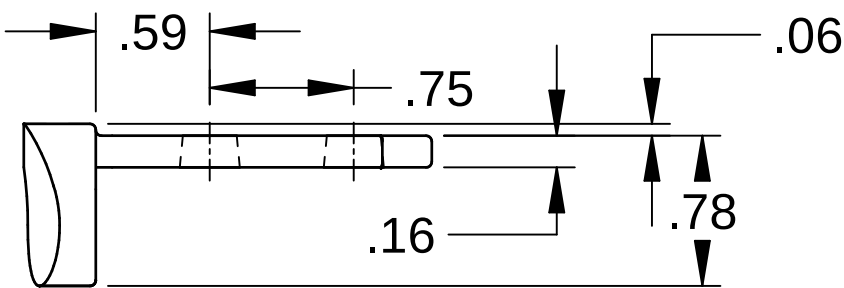
Tubular Bottom Bar Detail w/Interior Slide Bolt



Angle Bottom Bar Detail



Malleable Cast Iron Endlock

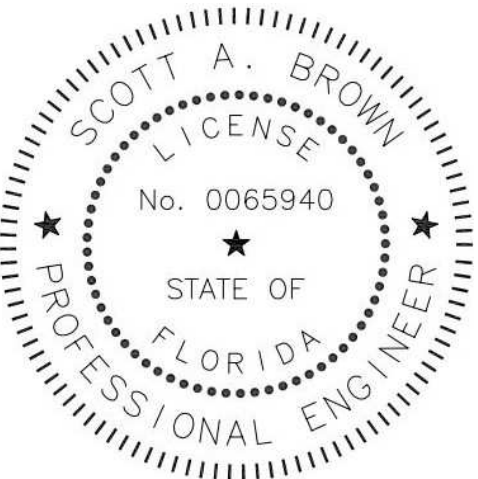


Interlocking Slats w/Endlocks

General Specifications

- DOORS shall be rolling steel model DURACOIL (Standard Service Door) or FIRECOIL (Fire Door) as manufactured by Raynor Garage Doors.
- GUIDES - Roll-formed steel angle per ASTM A1011, Minimum 3/16" thick provided with 4 removable curtain stops. Minimum yield strength of 50,000 PSI.
- BRACKETS - Steel plates, in accordance to ASTM A36 Steel, Min. 3/16" thick, bolted to guides for mounting curtain and barrel assembly. Drive side bracket shall be fitted with a sealed ball bearing for long life.
- BARREL - Structural steel pipe, Minimum 4 1/2" O.D. x .120" wall thickness and designed to limit maximum deflection, under load, to .03" per foot of span.
- SPRING COUNTERBALANCE - The curtain shall be counterbalanced by means of oil tempered, helical torsion springs, grease-packed and mounted on a single continous steel torsion shaft. Springs shall be compression spring design to facilitate any counterbalance maintenance. Cast iron spring anchors shall transfer full spring loading to the barrel. This is not part of the approval. It must be certified by an independent agency.
- HOOD - Shall be 24 ga. Commercial quality hot-dipped galvanized steel. Hood to have rolled edges to provide rigidity.
- GUIDE HARDWARE - All bolts and washers shall be galvanized steel or stainless steel with a minimum bolt tensile strength of 60 K.S.I.
- ENDLOCKS - Shall be cast malleable iron, in accordance to ASTM A47 - GRADE 32510 with electroplating in accordance to ASTM B633, clear chromate, Min. .0007 zinc coating thickness.
- CURTAIN FLAT SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653. Malleable endlocks fastened to alternate slats with 2 rivets per endlock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with Steel 1 1/4" X 2 1/16" X .078 tubular bottom bar or with (2) Steel angle, min. 1 1/2" X 1 1/2" X .116.
- CURTAIN INSULATED SLAT - Interlocking slats rollformed from commercial quality hot dipped galvanized (G-90) steel per ASTM A653. Each insulated standard service door slat shall have a 3/4" thick polyiso foamboard core, placed within the full length of the slat. Backing cover rollformed from 24 ga. commercial quality hot dipped galvanized (G-60) steel per ASTM A653. Malleable endlocks fastened to alternate slats with 2 rivets per endlock, eliminates lateral movement and prevent slats from wearing at surfaces coming in contact with guides. Bottom of curtain shall be reinforced with Steel 1 1/4" X 2 1/16" X .078 Tubular Bottom Bar or with (2) Steel angle, min. 1 1/2" X 1 1/2" X .116.

11) Steel slat material to have a min. yield strength of 48,379 psi.

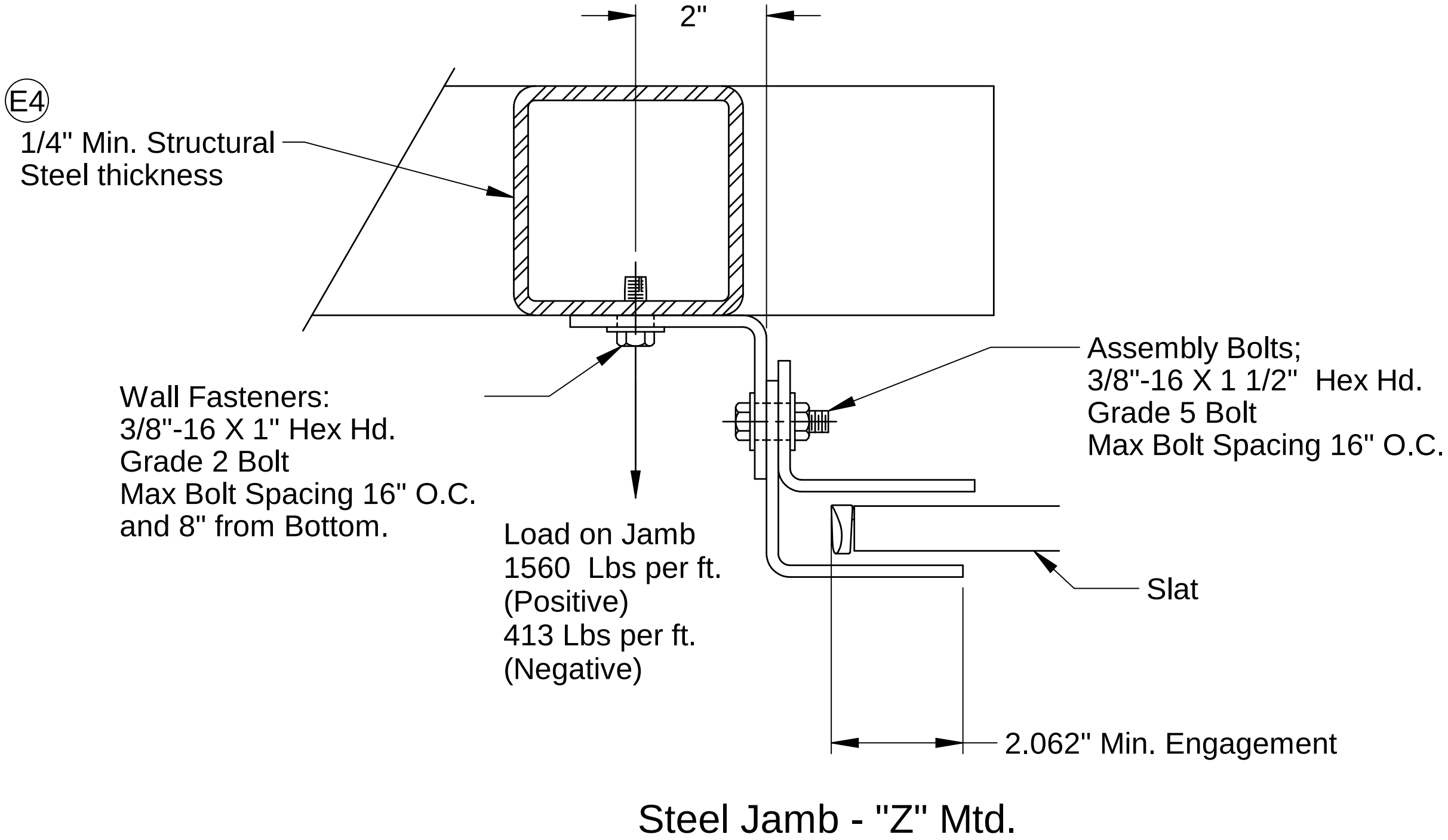
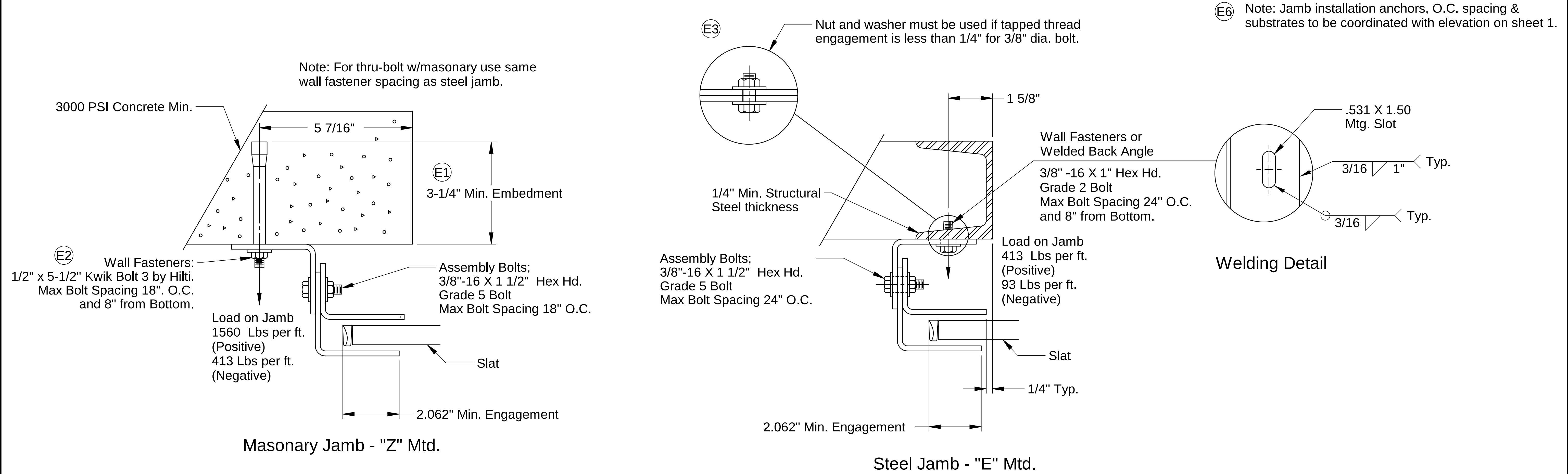


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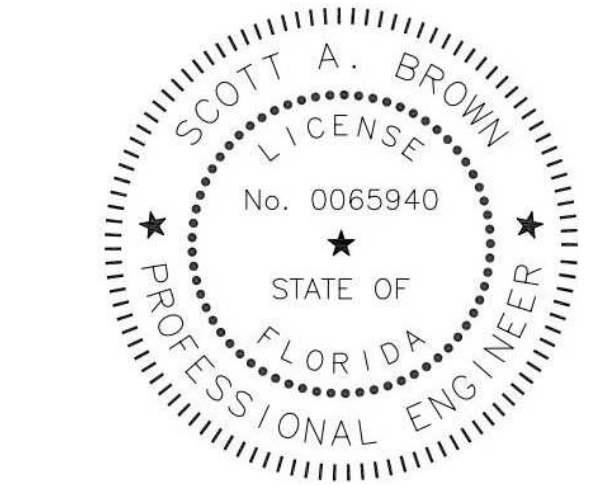
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		Drawn by: M. Reutzel		No. P-1286	Sheet 2	Rev F
		Checked by: J. Bonnell				
	Finish:					
	Date: 09/10/13					
		ECO: 4696				



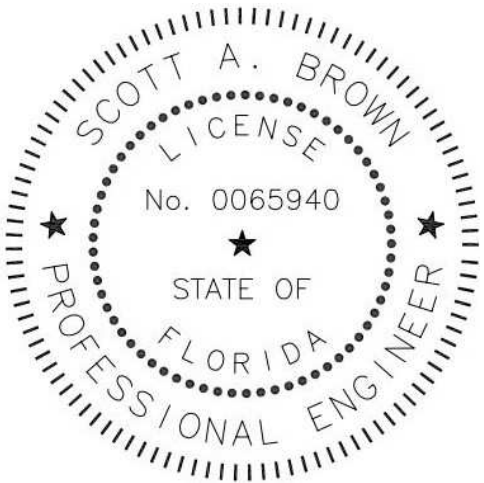
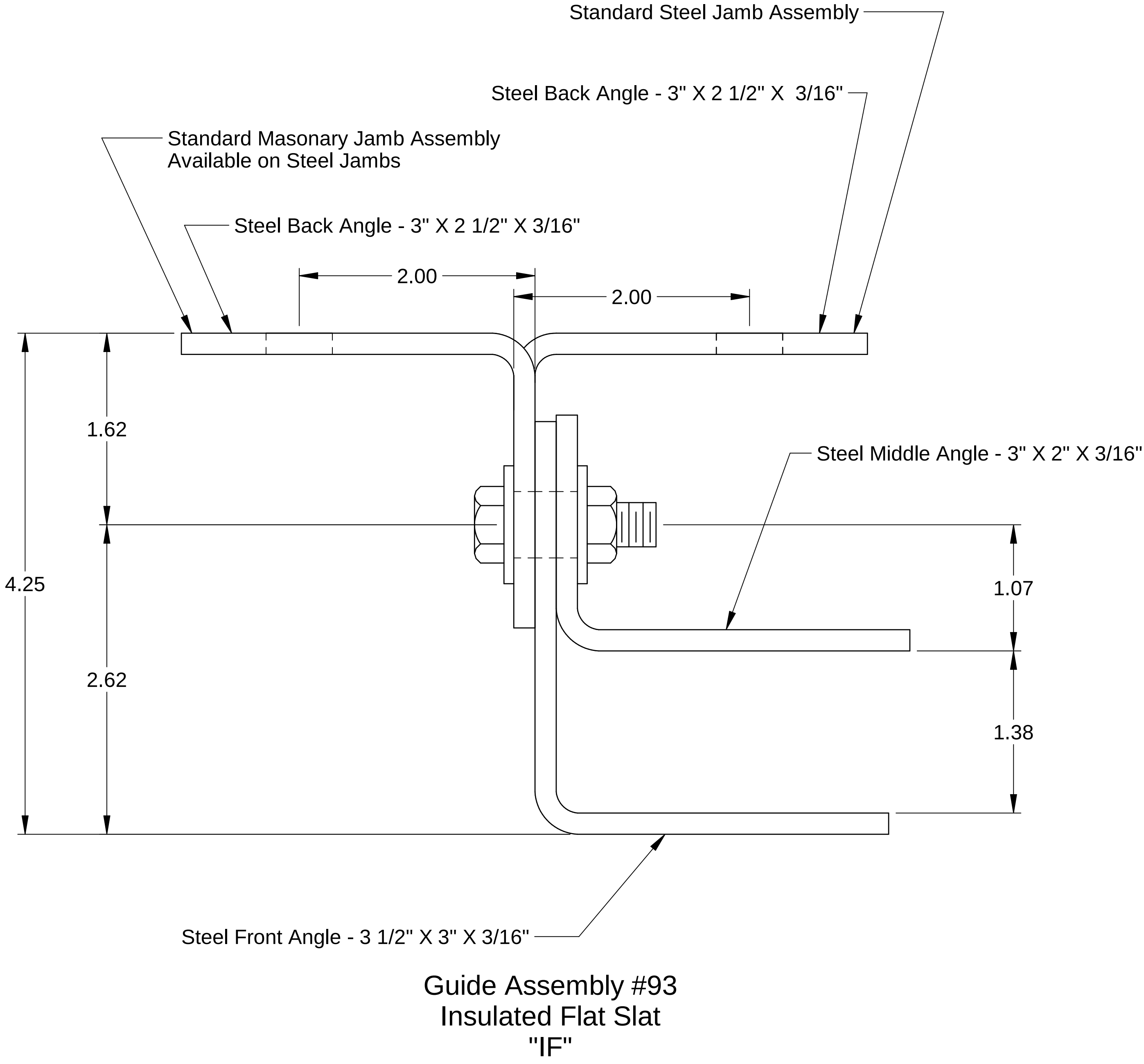
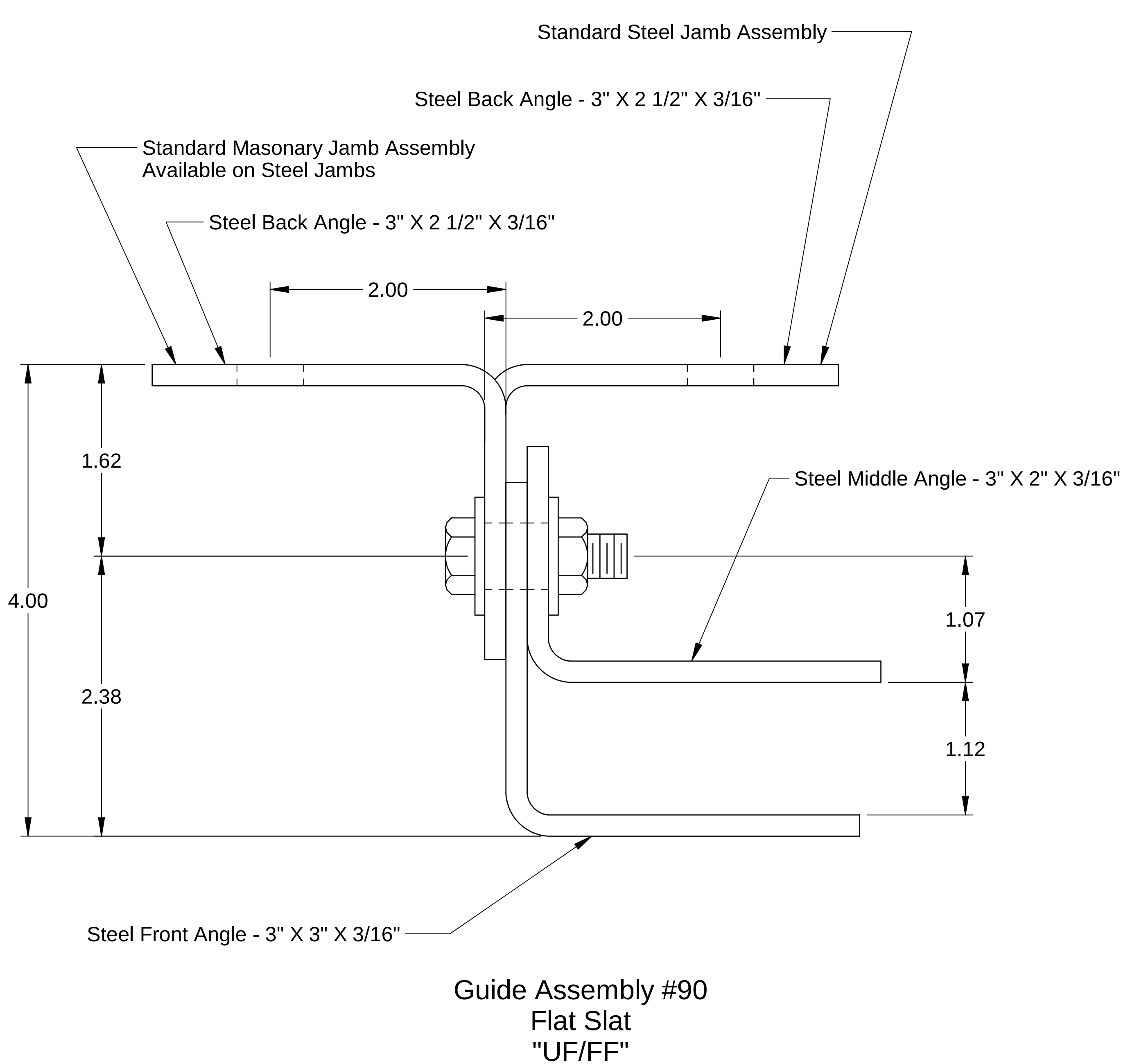
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