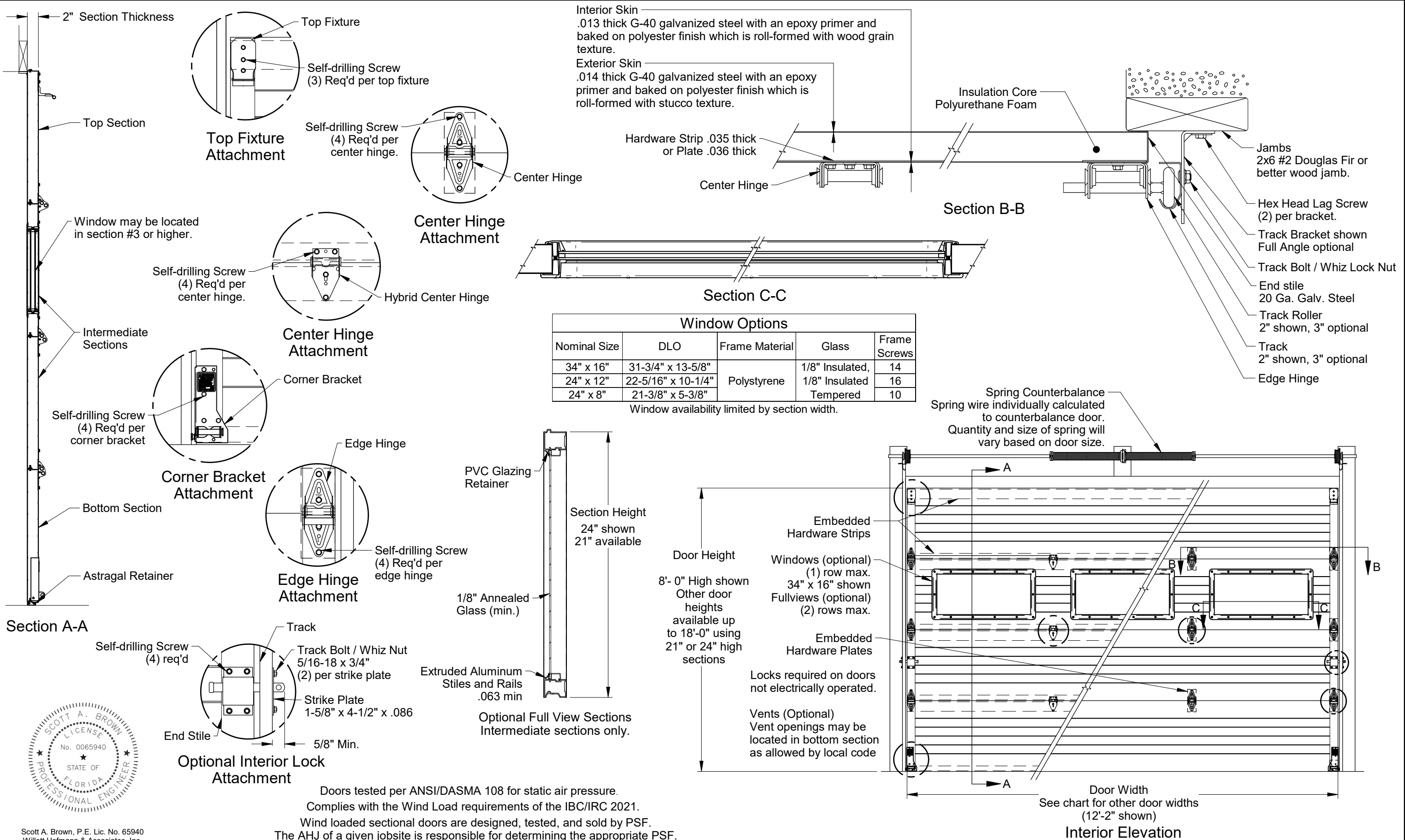


Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scott A. Brown

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Maximum Door Width	Hinge Rows	Panels	Design Loads		End Stiles
8'-2"	1	2	24.0	-27.0	Single
9'-2"			21.4	-24.1	
10'-2"	2	3	18.2	-20.6	
12'-2"			15.2	-17.2	

C	Added full view option on sht. 1, sht. 4 and clip angle on sht. 3.	9097.01	08/14/24
B	Added plates, M200C to title, angle mount details and tapcon jamb details. Endstile was 16 ga. Reduced pressures.	8313.02	09/25/20
A	New release for production.	8313.01	12/05/19
Rev.	Description	ECO	Date

Scale: None
Drawn by: R. Frey
Checked by: G. Wedekind
Date: 12/05/19
ECO: 8313.01



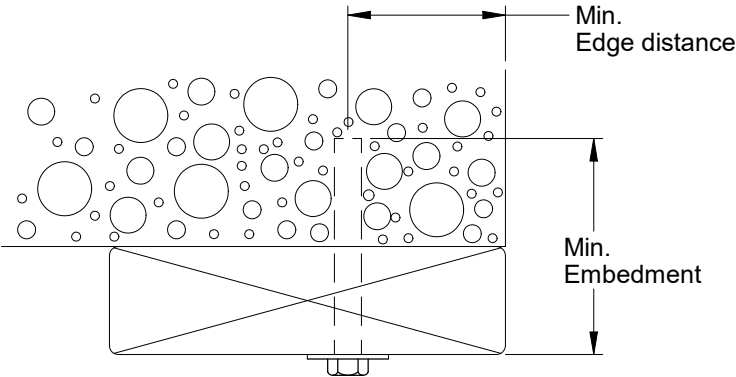
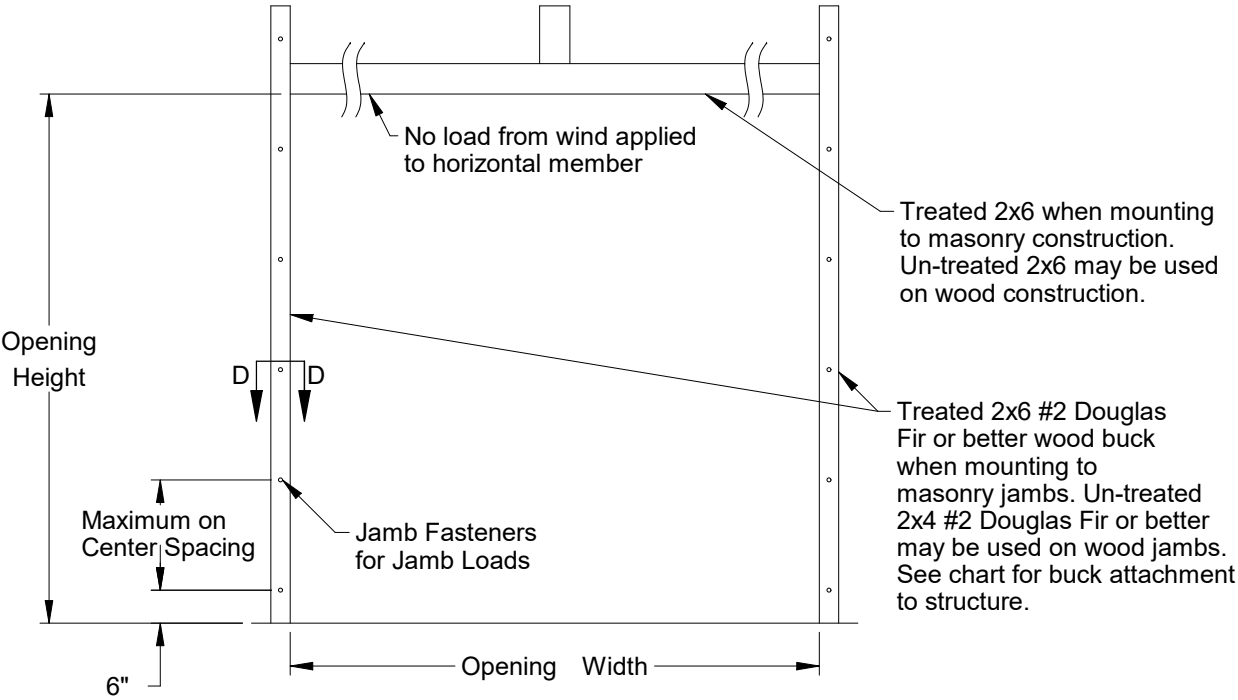
Title: Spec, Wind Load TM200C / M200C	
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1. Design of the supporting structure shall be the sole responsibility of the building designer and shall be designed for the maximum jamb loads listed.
2. DASMA Technical Data Sheet TDS-161 may be used for alternate jamb attachments. Alternate jamb attachments may be used if approved by a registered Professional Engineer.
3. 3/8" diameter lag screws required 1/4" pilot hole and 1-1/2" minimum required distance.
4. Masonry fasteners by others.
5. Garage doors evaluated as attached to enclosed buildings.
6. Garage doors evaluated as components and cladding.

Max. Positive Jamb Load	
(9'-2" x 21.4 PSF) / 2 =	99 lbs. per foot

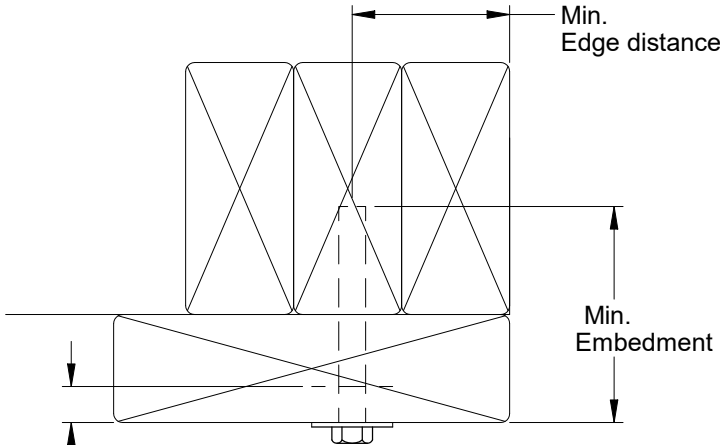
Max. Negative Jamb Load	
(9'-2" x -24.1 PSF) / 2 =	111 lbs. per foot

2x6 Attachment to Structure						
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5	6"	24"	526
Southern Pine	3/8" x 3" Lag with 1-1/8" OD Washer	1.50"	1.50"	1.50"	24"	655
Spruce Pine Fir	3/8" x 3" LAG with 1-1/8" OD Washer	1.50"	1.50"	1.50"	24"	482

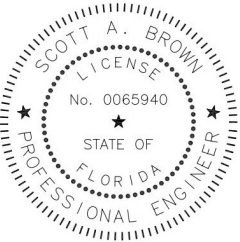


Section D-D
2500 PSI Min. Concrete

Fasteners may be countersunk up to 1/2"



Section D-D
Southern Pine or
Spruce Pine Fir



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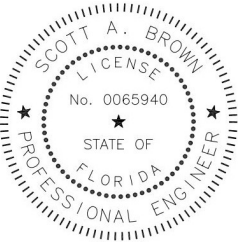
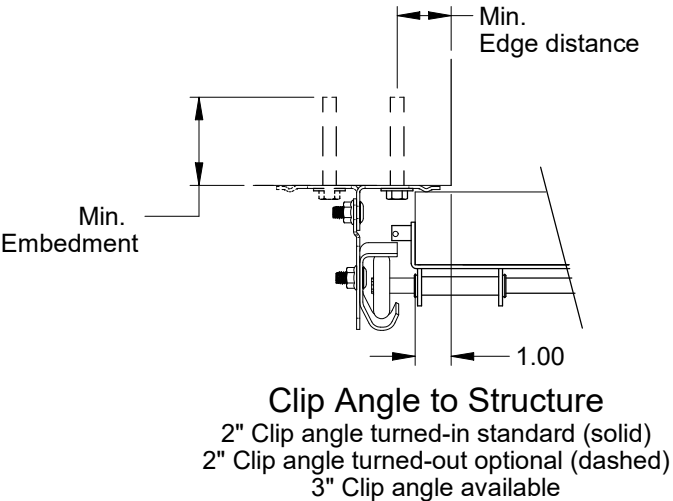
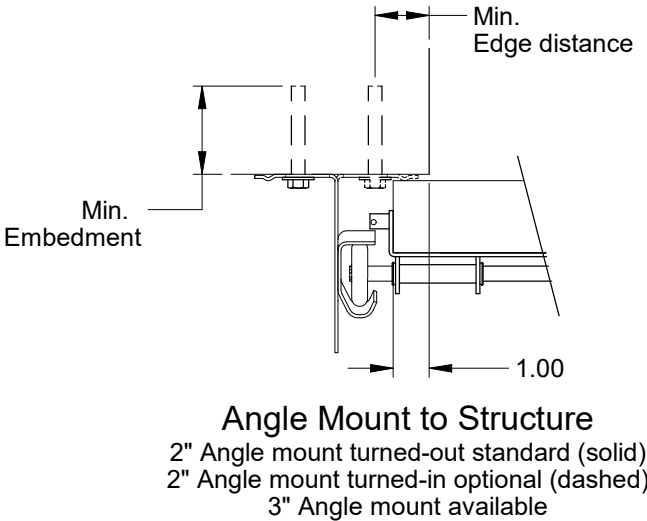
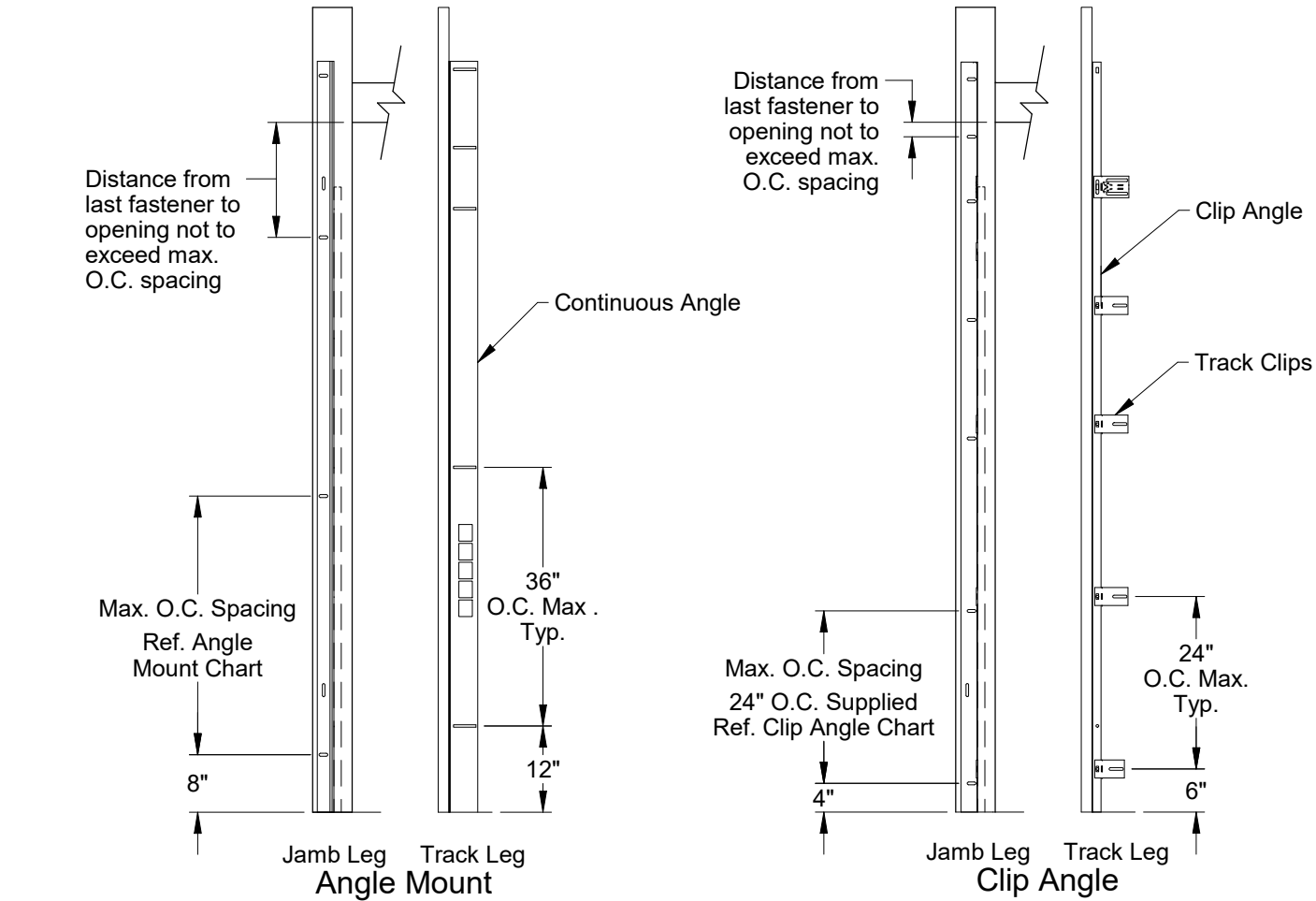
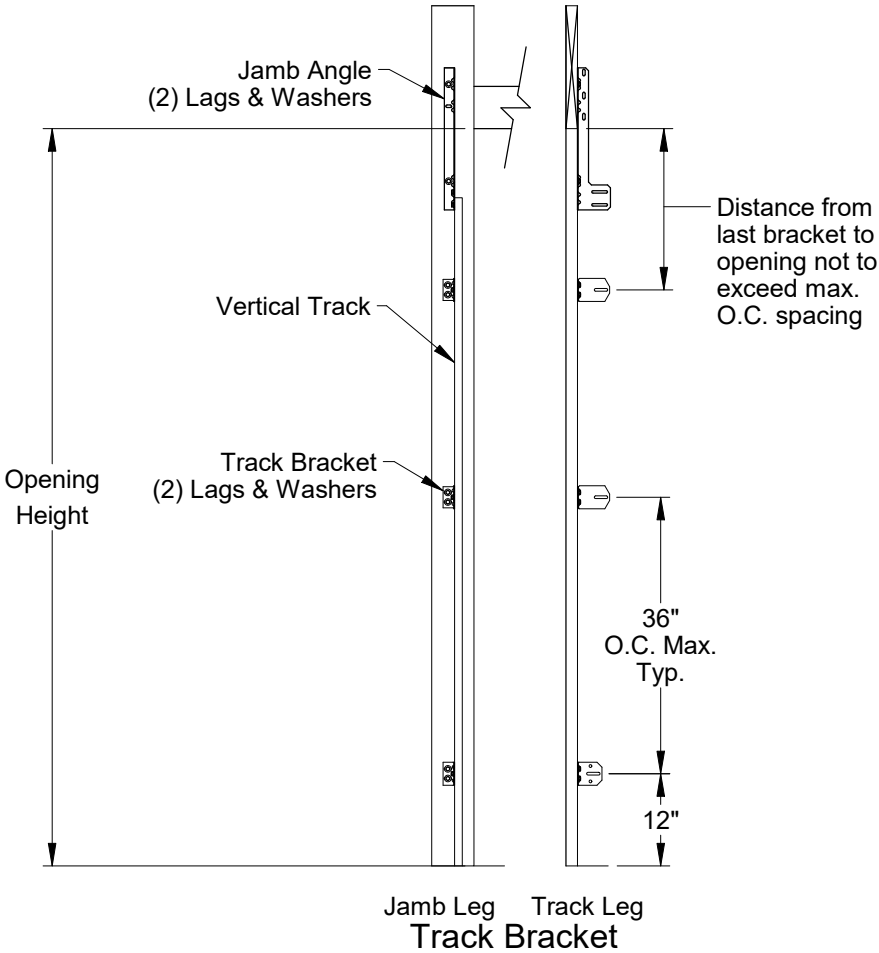
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ECO: 8313.01		No. P-2436	Sheet 2	Rev C

Jamb Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Allowable Tension Load (lbs.)	Angle Mount	Clip Angle
					Max. on Center Spacing	Max. on Center Spacing
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	893	36"	24"
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	687	36"	24"
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	651	36"	24"
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16"	3/16"	1-1/2"	971	36"	24"
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	352	36"	24"
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	480	36"	24"

Alternate fasteners may be used if approved by a registered Professional Engineer.

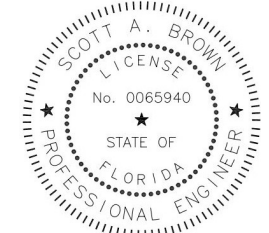
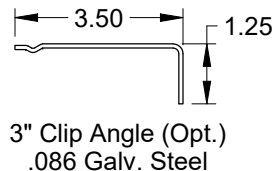
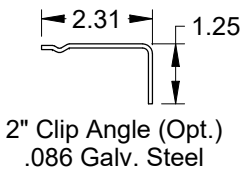
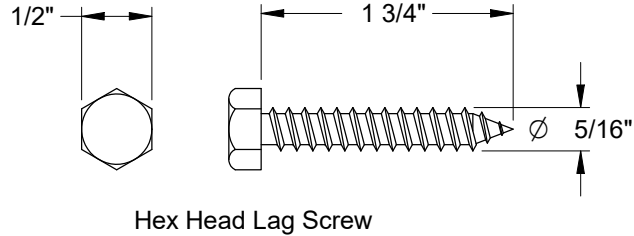
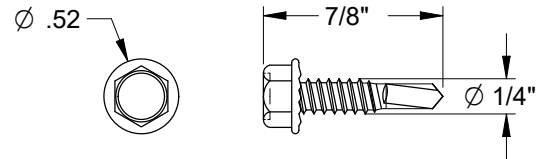
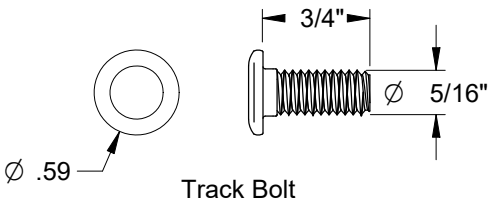
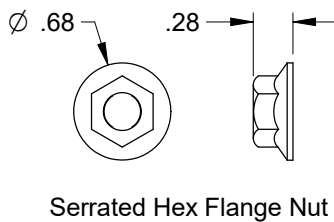
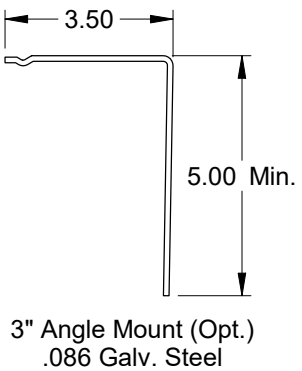
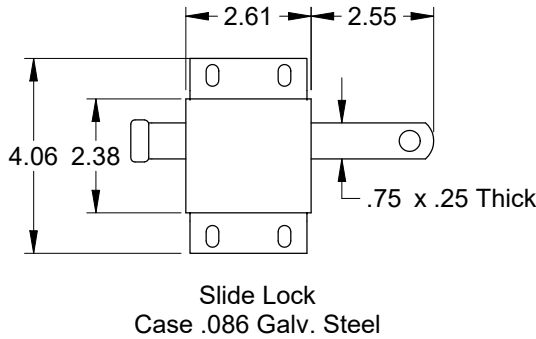
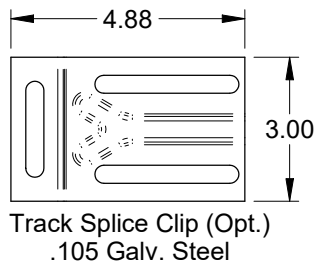
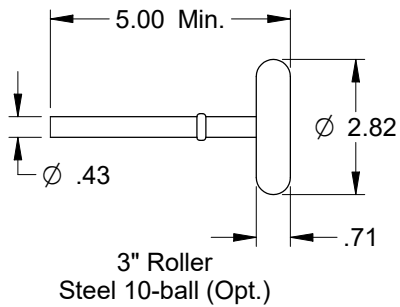
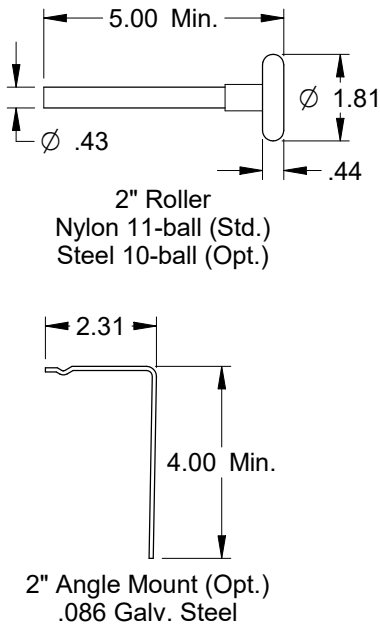
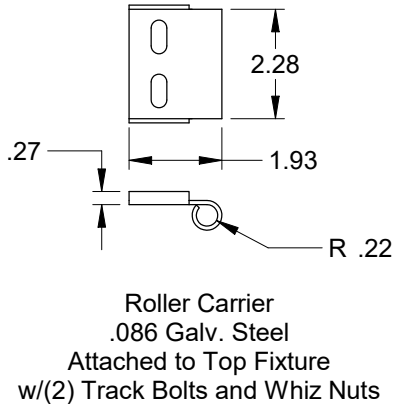
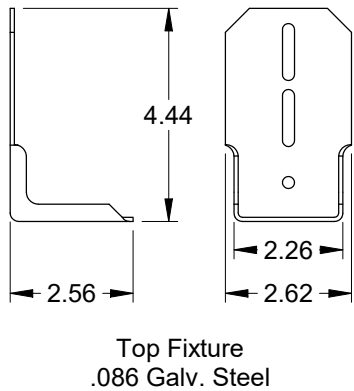
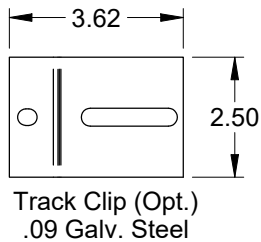
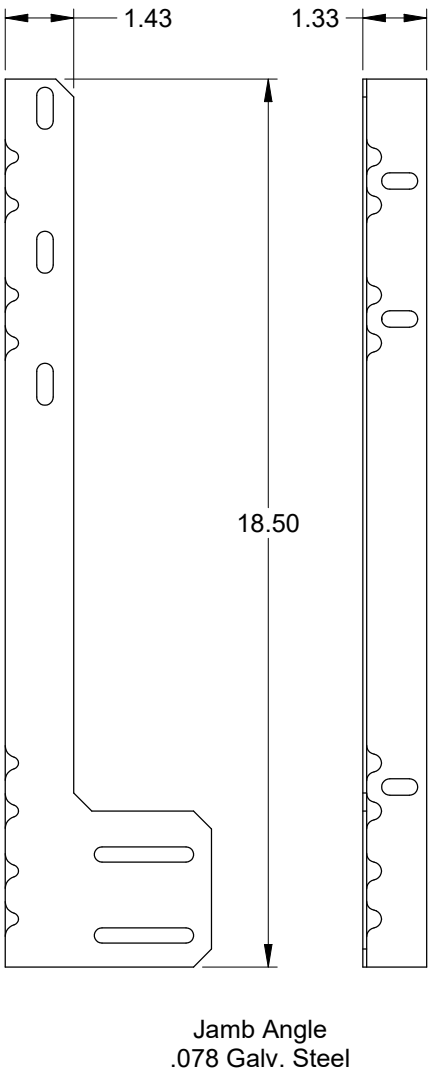
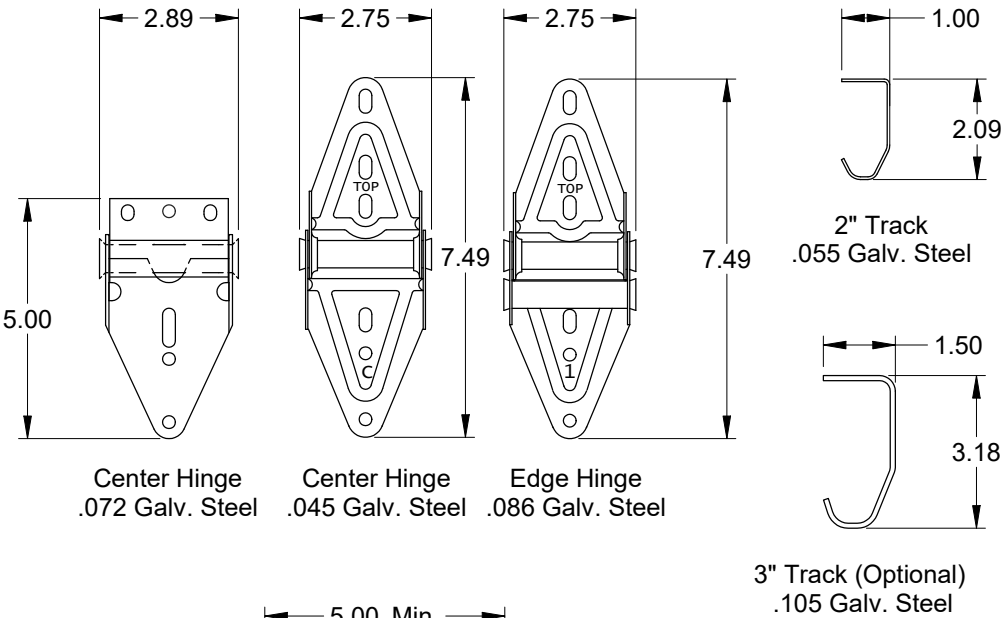
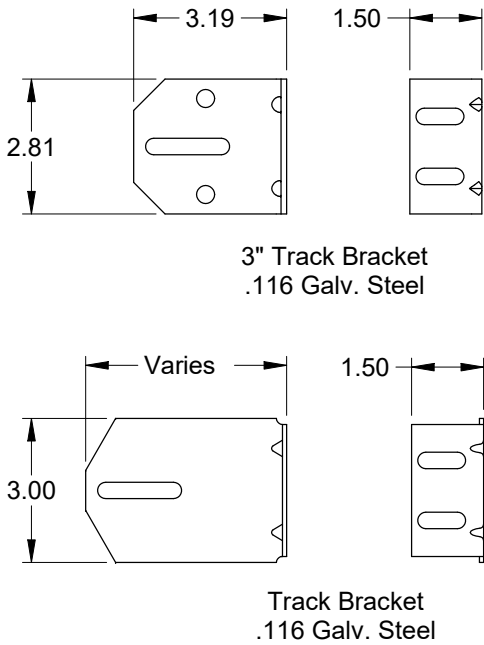
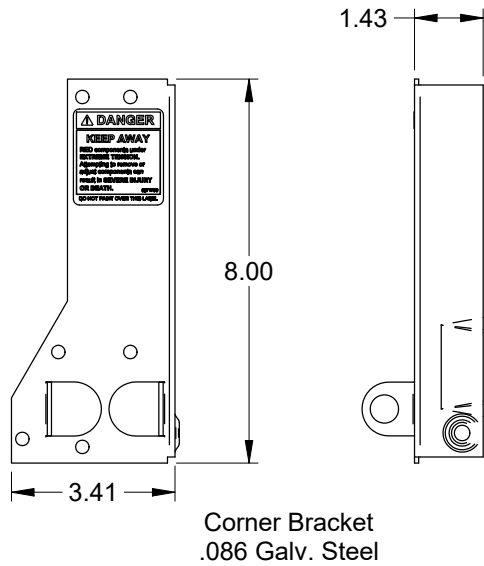


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Date: 12/05/19				
ECO: 8313.01				



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