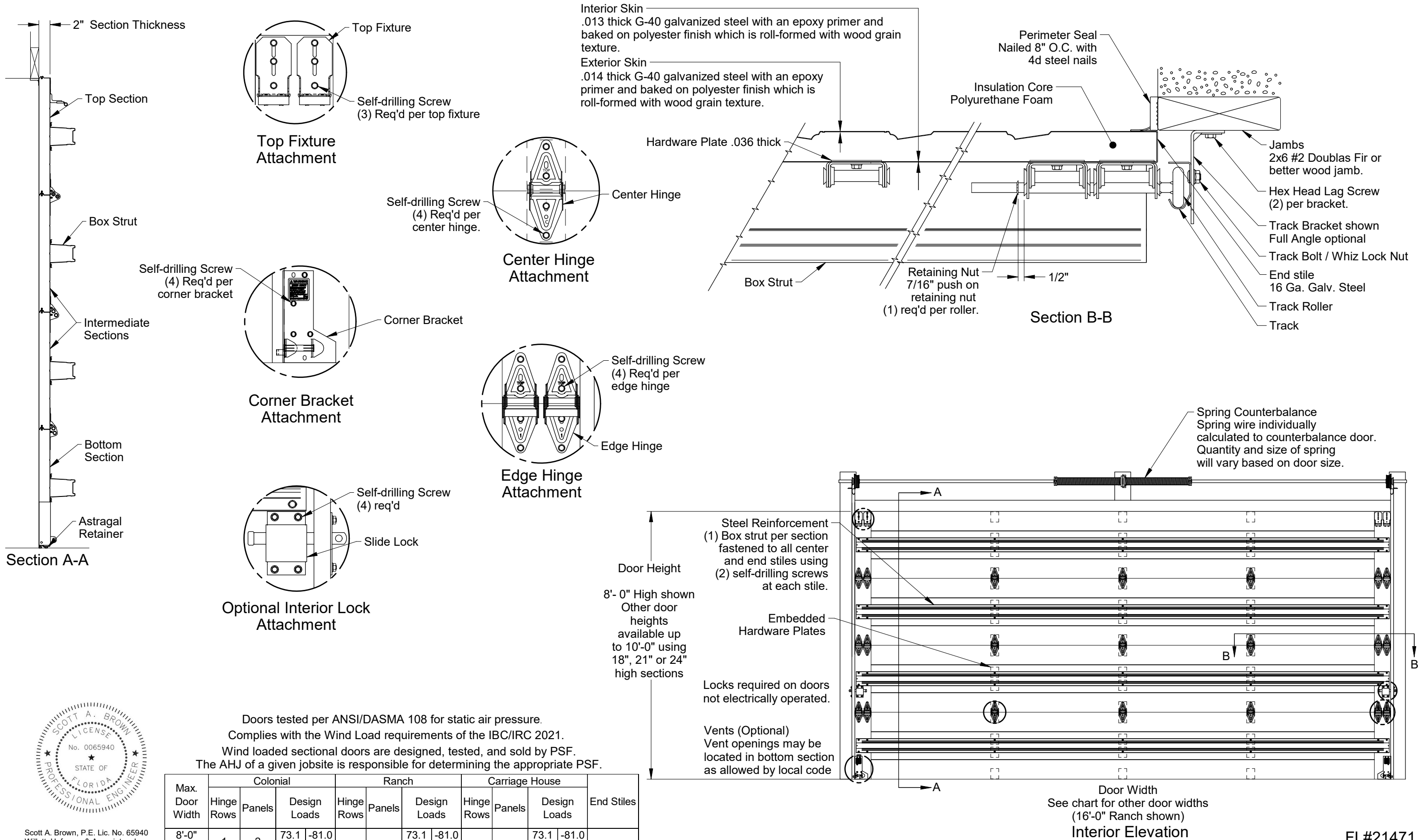


Scott A. Brown, P.E. Lic. No. 65940
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809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

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Doors tested per ANSI/DASMA 108 for static air pressure.
Complies with the Wind Load requirements of the IBC/IRC 2021.
Wind loaded sectional doors are designed, tested, and sold by PSF.
The AHJ of a given jobsite is responsible for determining the appropriate PSF.

Max. Door Width	Colonial				Ranch				Carriage House				End Stiles
	Hinge Rows	Panels	Design Loads		Hinge Rows	Panels	Design Loads		Hinge Rows	Panels	Design Loads		
8'-0"	1	2	73.1	-81.0	1	2	73.1	-81.0	1	2	73.1	-81.0	Double
9'-0"			65.0	-72.0			65.0	-72.0			65.0	-72.0	
10'-0"	2	3	60.0	-69.3	2	3	52.7	-58.3	2	3	52.7	-58.3	
12'-0"			60.0	-69.3			60.0	-69.3			60.0	-69.3	
14'-0"	4	5	51.4	-59.4	3	4	51.4	-59.4	3	4	51.4	-59.4	
16'-0"			45.0	-52.0			45.0	-52.0			45.0	-52.0	

Scale: None		Title: Spec, Wind Load AP200 / MAP200	
Drawn by: R. Frey		Date: 10/09/24	
Checked by: G. Wedekind		ECO: 9139.01	
A New drawing.		9139.01	10/09/24
Rev.	Description	ECO	Date

RAYNOR

1101 East River Road
Dixon, IL. 61021

No.	P-2614	Sheet	1 of 3	Rev	A
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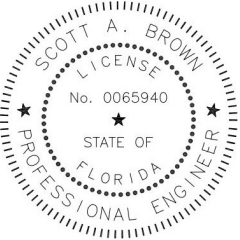
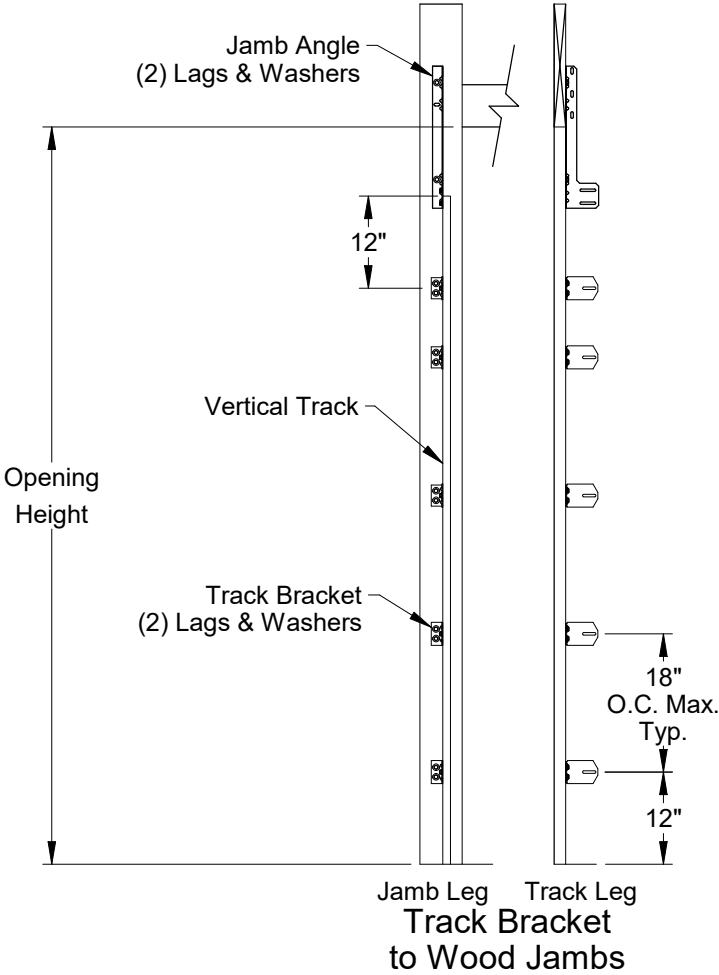
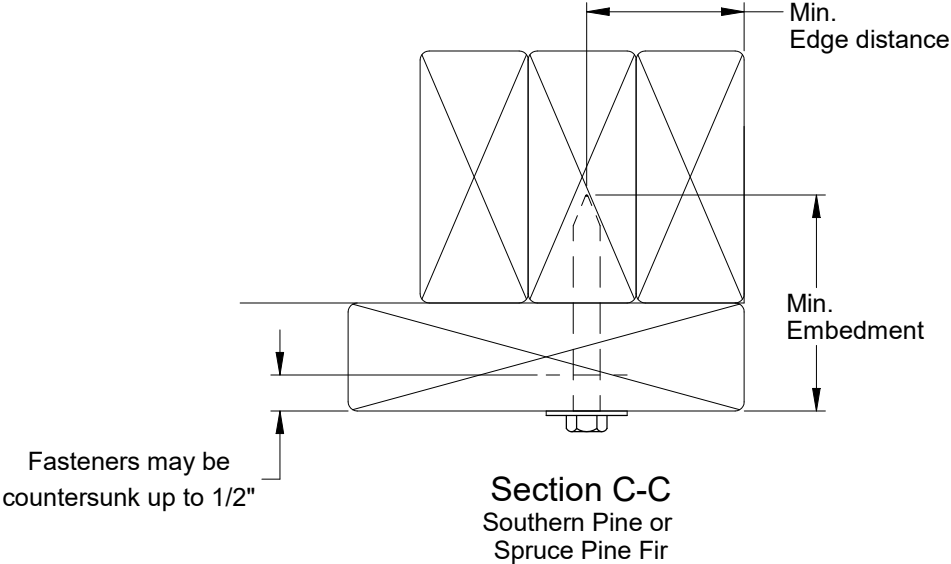
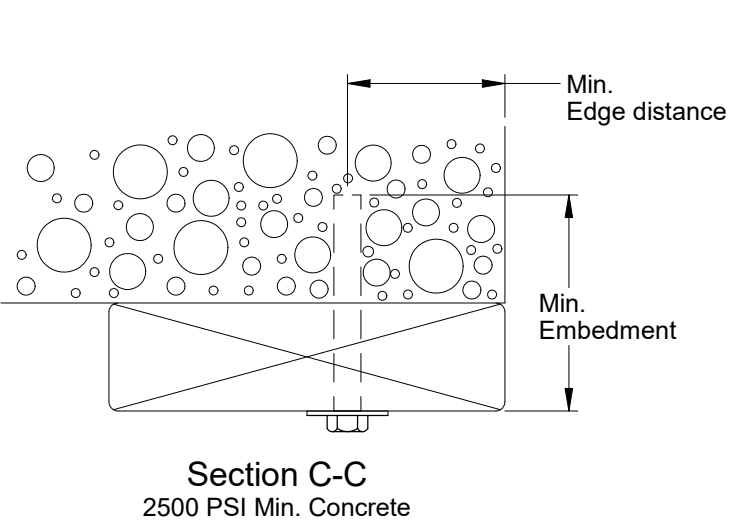
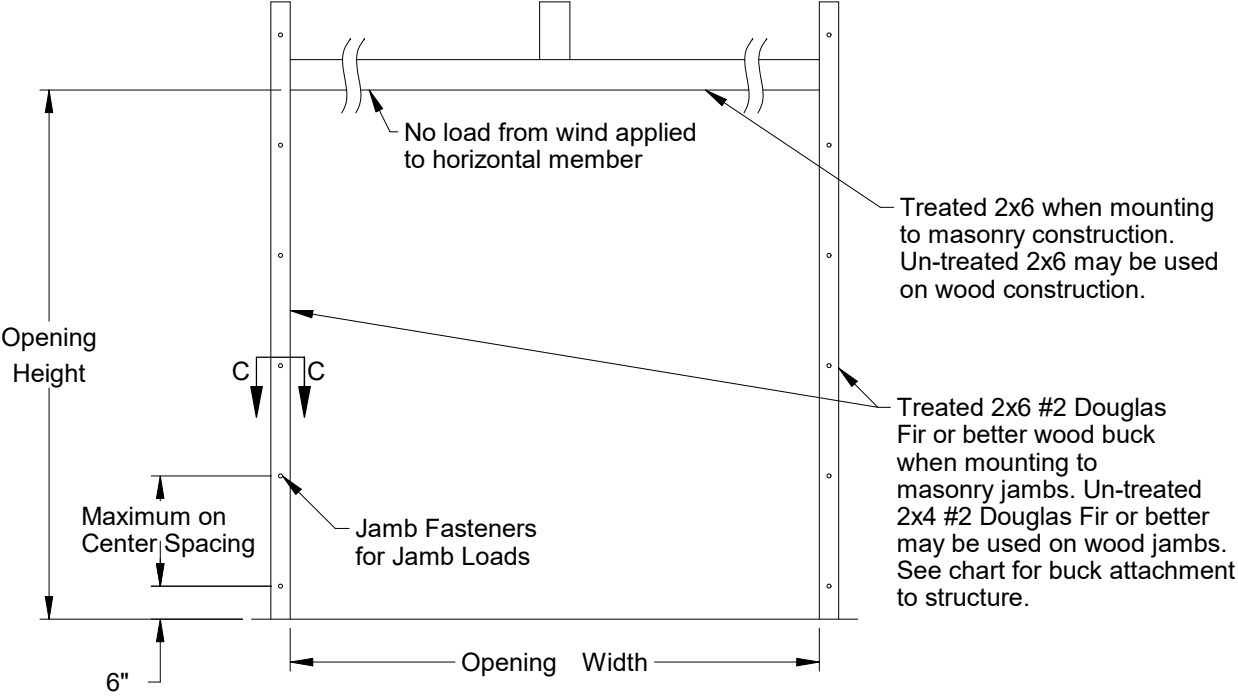
FL#21471

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 1/16" 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	
(16'-0" x 45.0 PSF) / 2 =	360 lbs. per foot

Max. Negative Jamb Load	
(16'-0" x -52.0 PSF) / 2 =	416 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"	17"	526
Southern Pine	3/8" x 3" Lag with 1-1/8" OD Washer	1.50"	1.50"	1.50"	21"	655
Spruce Pine Fir	3/8" x 3" Lag with 1-1/8" OD Washer	1.50"	1.50"	1.50"	16"	482

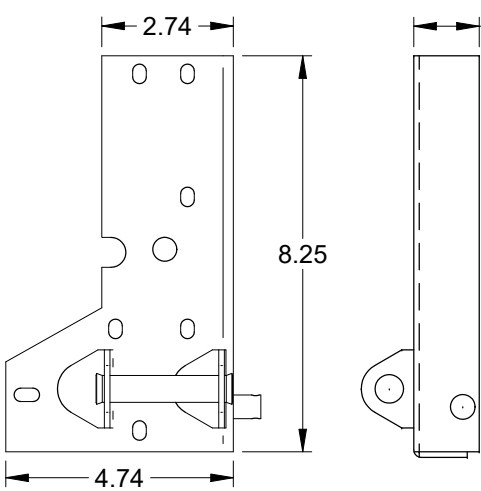


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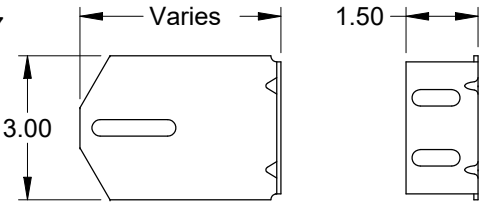
Scott A. Brown
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Date: 2024.10.18 13:39:51-05'00'

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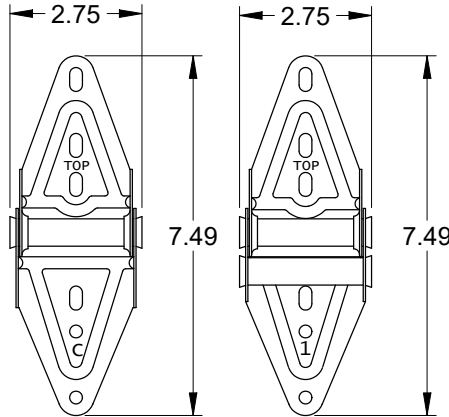
Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load AP200 / MAP200	
Drawn by: R. Frey		No. P-2614	Sheet 2
Checked by: G. Wedekind			
Date: 10/09/24			
ECO: 9139.01			Rev A



Corner Bracket
.116 Galv. Steel

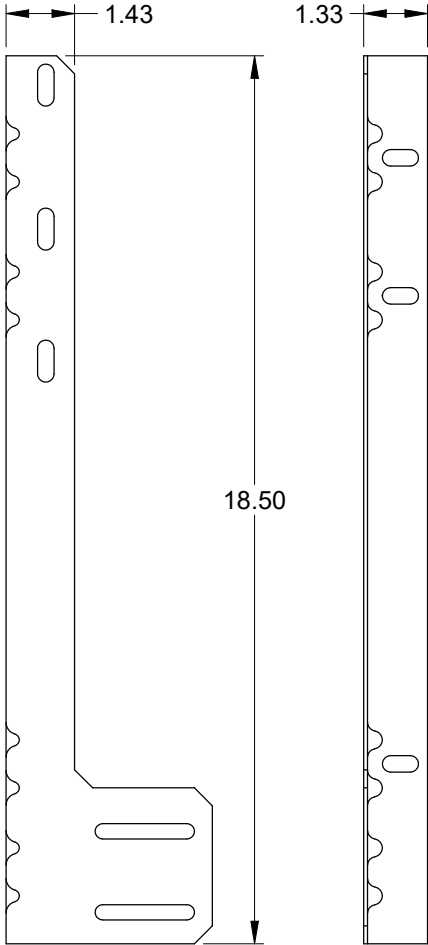


Track Bracket
.116 Galv. Steel

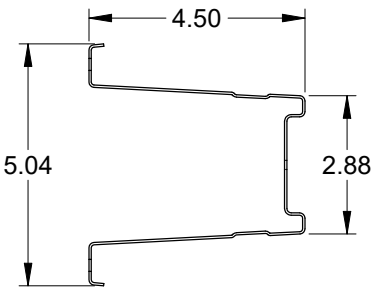


Center Hinge
.045 Galv. Steel

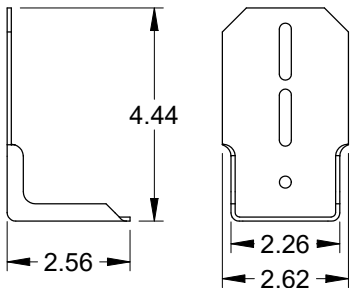
Edge Hinge
.086 Galv. Steel



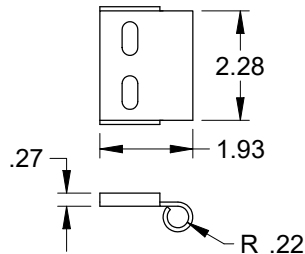
Jamb Angle
.078 Galv. Steel



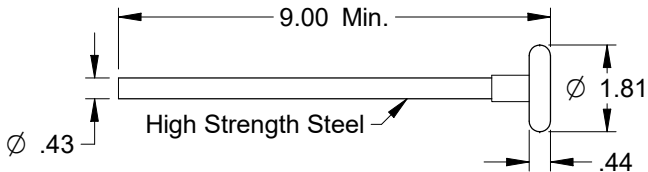
Steel Box Strut
20 Ga. (.035 min.) Galvanized
High Tensile Steel
80 KSI Minimum Yield



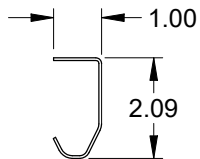
Top Fixture
.085 Galv. Steel



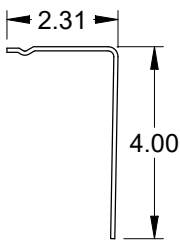
Roller Carrier
.114 Galv. Steel
Attached to Top Fixture
w/(2) Track Bolts and Whiz Nuts



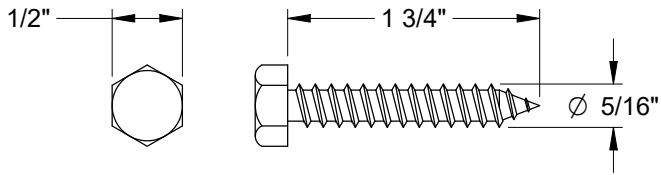
2" Roller
Nylon Precision Bearing (Std.)
Steel 10-ball (Opt.)



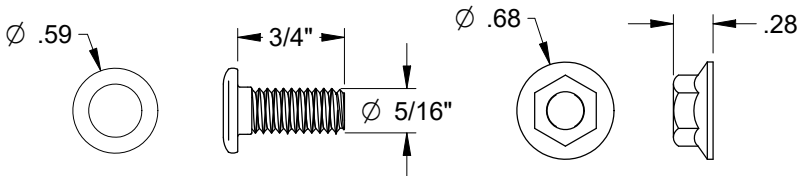
2" Track
.086 Galv. Steel



2" Angle Mount (Opt.)
.086 Galv. Steel

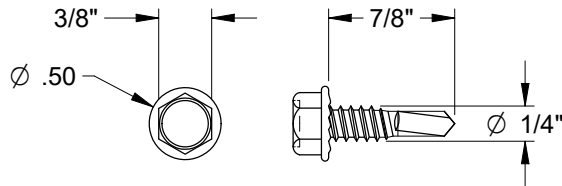


Hex Head Lag Screw

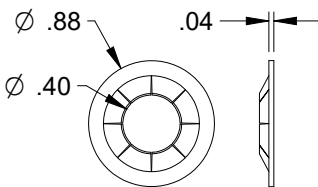


Track Bolt

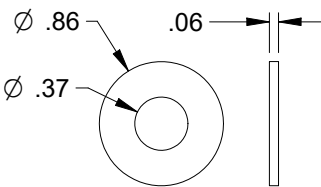
Serrated Hex
Flange Nut



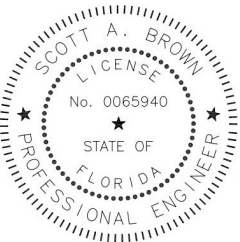
Self-Drilling Screw



Retaining Nut



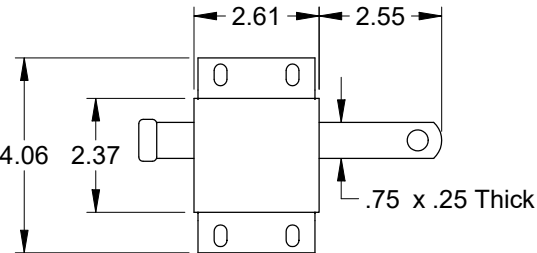
Washer



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Slide Lock
Case .086 Galv. Steel

Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load AP200 / MAP200	
Drawn by: R. Frey		No. P-2614	Sheet 3
Checked by: G. Wedekind			
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