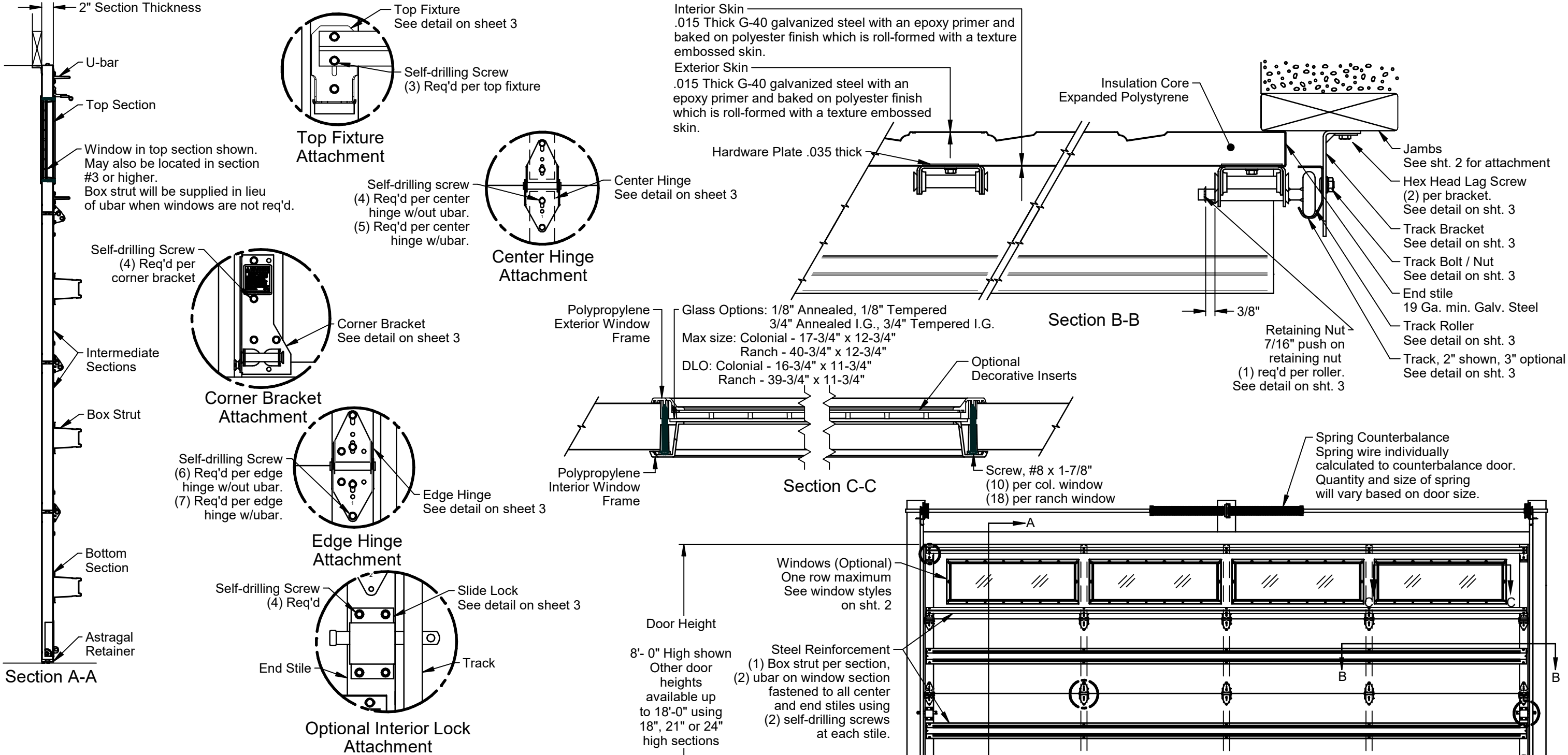


Scott A. Brown, P.E. Lic. No. 65940
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809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 31544
Structural Adequacy for Wind Load

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

Commercial Encore							
Max. Door Width	Colonial		Ranch		Carriage House		Design Loads
	Ctr. Hngs. per Sect.	Design Loads	Ctr. Hngs. per Sect.	Design Loads	Ctr. Hngs. per Sect.	Design Loads	
8'-2"	1	57.5 -66.7	1	57.5 -66.7	1	57.5 -66.7	
9'-2"	1	51.1 -59.3	1	51.1 -59.3	1	51.1 -59.3	
10'-2"	2	49.3 -55.7	1	41.4 -48.0	1	41.4 -48.0	
12'-2"	2	41.1 -49.8	2	41.1 -49.8	2	36.7 -41.5	
14'-2"	2	31.4 -35.5	2	31.4 -35.5	2	31.4 -35.5	
16'-2"	3	27.8 -33.1	3	27.8 -33.1	3	27.8 -33.1	
18'-2"	3	22.0 -26.2	3	22.0 -26.2	3	20.2 -25.3	
20'-2"	4	16.8 -18.7	4	16.8 -18.7	4	16.8 -18.7	

Door Height

8'-0" High shown

Other door heights available up to 18'-0" using 18", 21" or 24" high sections

Steel Reinforcement

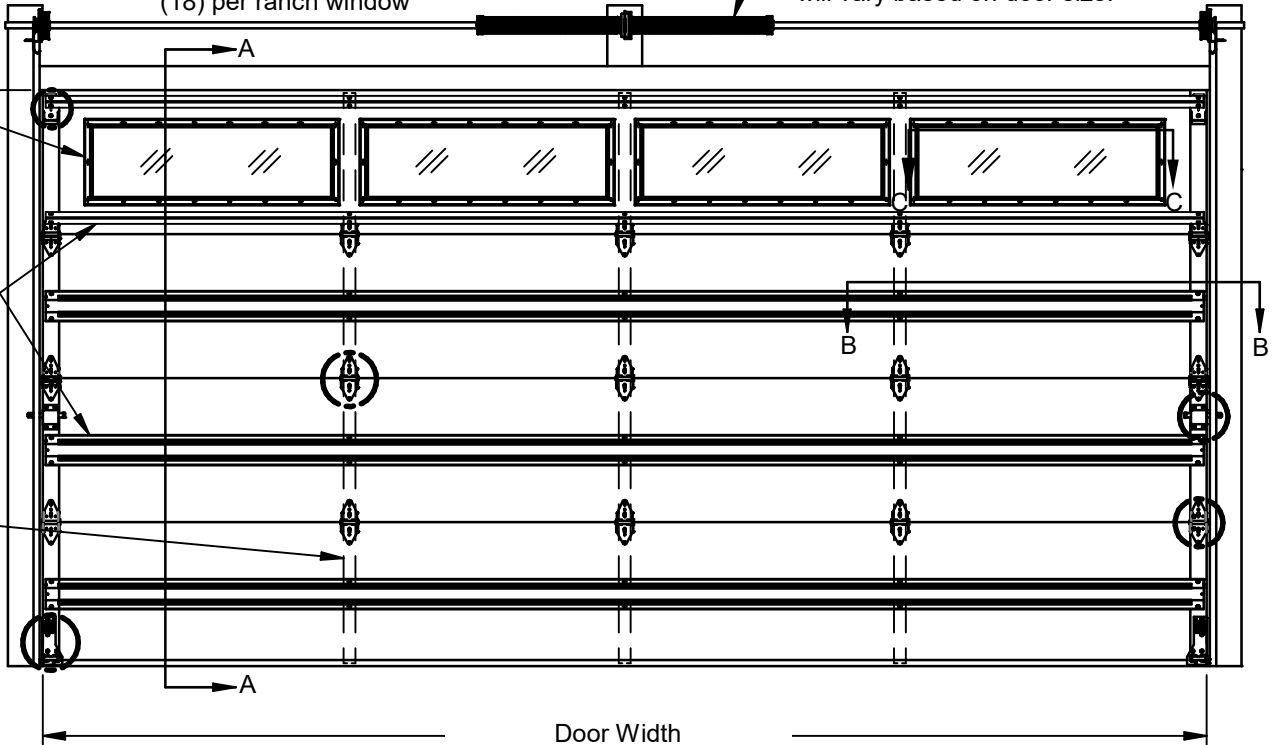
(1) Box strut per section, (2) ubar on window section fastened to all center and end stiles using (2) self-drilling screws at each stile.

Embedded Hardware Plates

Locks required on doors not electrically operated.

Vents (Optional)

Vent openings may be located in bottom section as allowed by local code



Door Width

See chart for other door widths (16'-2" Ranch shown)

Interior Elevation

FL# 41569

B	Added IBC/IRC note, FL number, and drywall/sheathing detail on sht 2. Updated PE address. 12" negative pressure was 46.4 in error, changed to 49.8.	9383.02	02/16/26
A	New release for production.	8593.01	05/24/22
Rev.	Description	ECO	Date

Scale: None
Drawn by: R. Frey
Checked by: G. Wedekind
Date: 05/24/22
ECO: 8593.01

RAYNOR

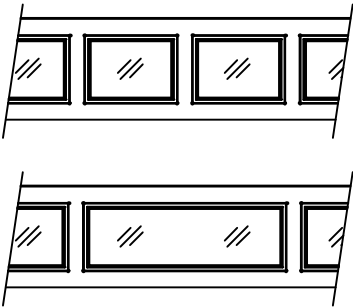
1101 East River Road
Dixon, IL. 61021

Title: Spec, Wind Load Commercial Encore				
No.	P-2448	Sheet	Rev	
		1 of 4	B	

Jamb Attachment Notes:

- 1. Maximum Positive Load per Jamb = (12'-0" x 41.1 PSF) / 2 = 247 lbs. per foot.
- 2. Maximum Negative Load per Jamb = (12'-0" x -49.8 PSF) / 2 = 298 lbs. per foot.
- 3. Design of the supporting structure shall be the sole responsibility of the building designer and shall be designed for the jamb loads listed in notes 1 and 2.
- 4. Alternate jamb attachments may be used if approved by a registered Professional Engineer.
- 5. DASMA Technical Data Sheet TDS-161 may be used for alternate jamb attachments.
- 6. 3/8" diameter lag screws required 1/4" pilot hole and 1-1/2" minimum required distance.
- 7. Masonry fasteners by others.

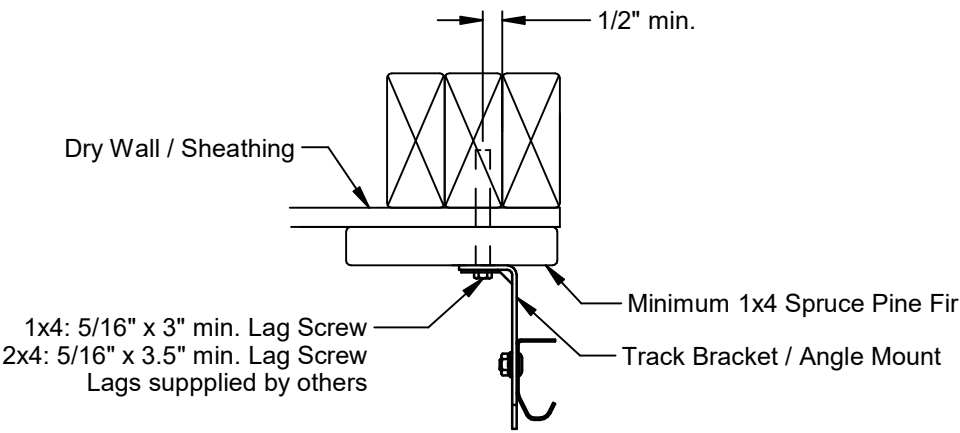
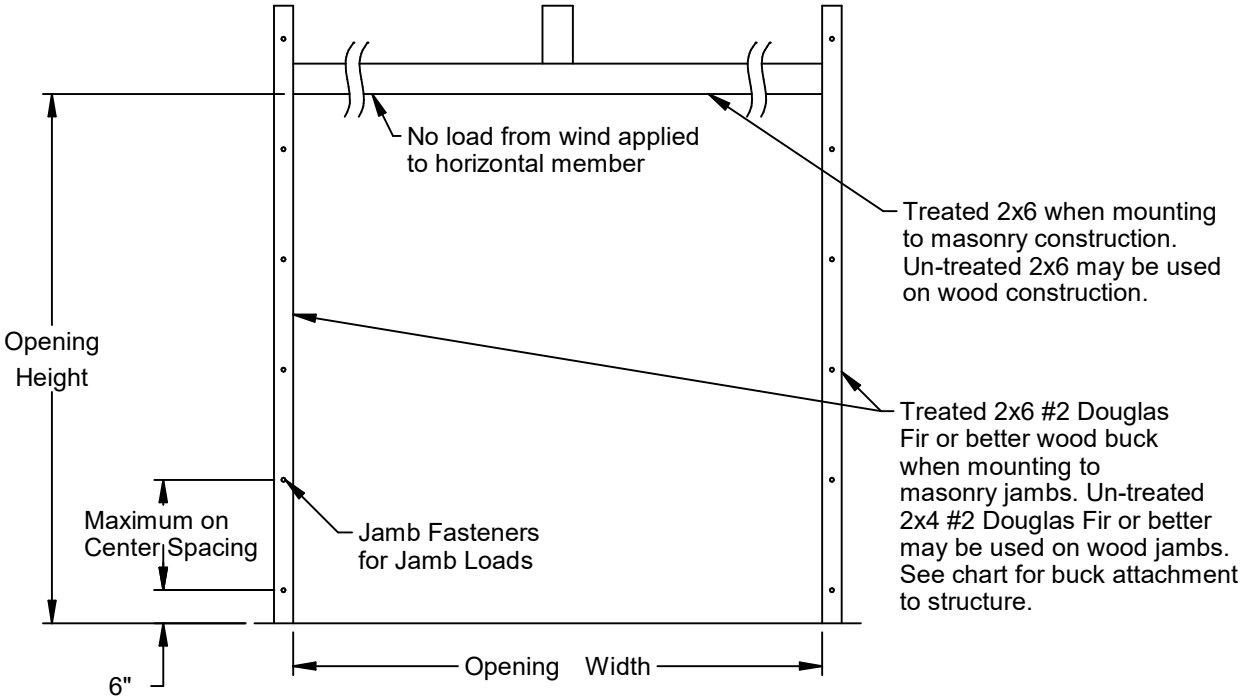
2x6 Attachment to Structure						
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5	6"	24"	526
Southern Pine	3/8" x 3" Lag with 1-1/8" 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"	23"	482



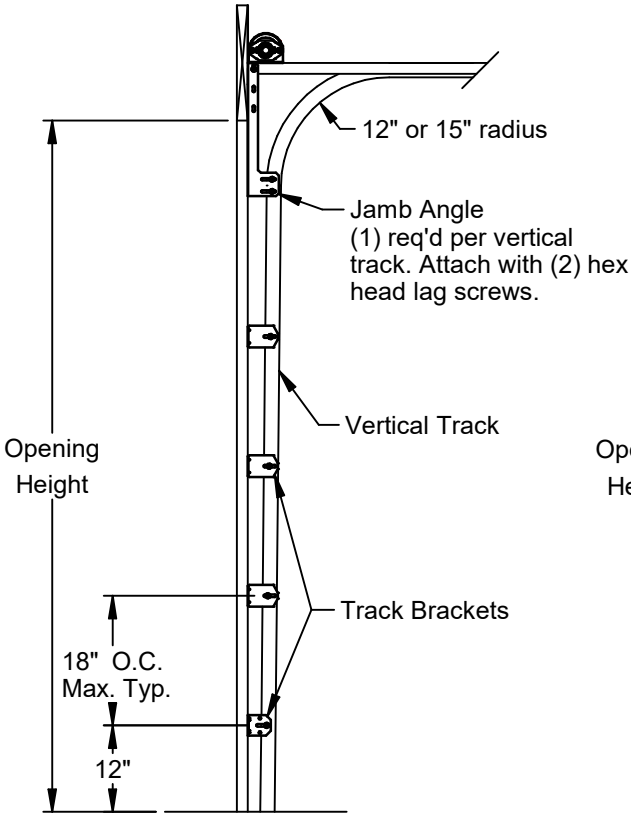
Window Styles

Colonial windows

Ranch windows

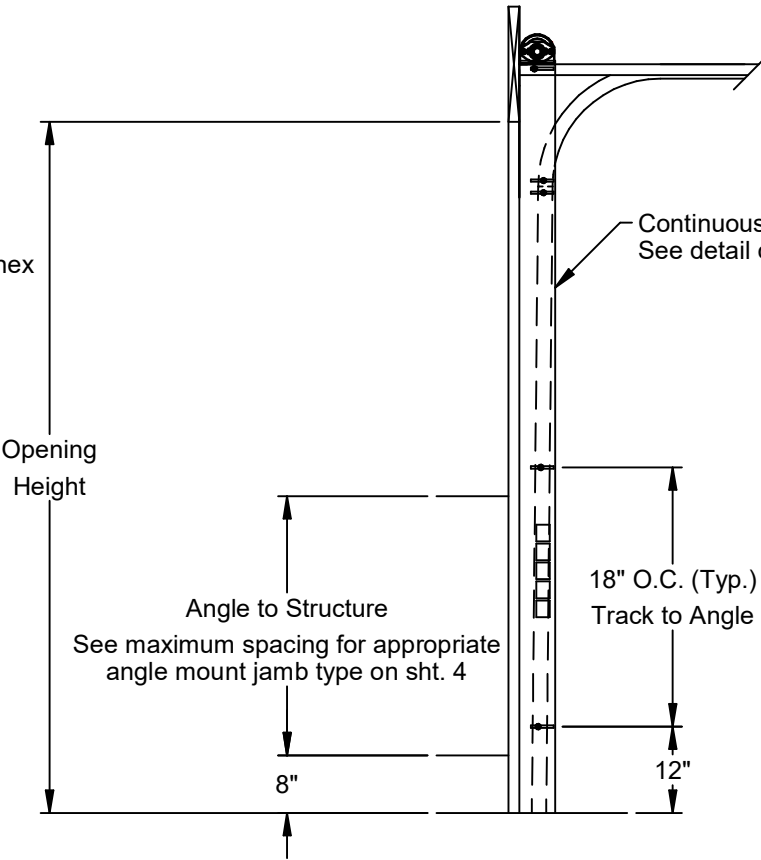


Attachment over Drywall/Sheathing



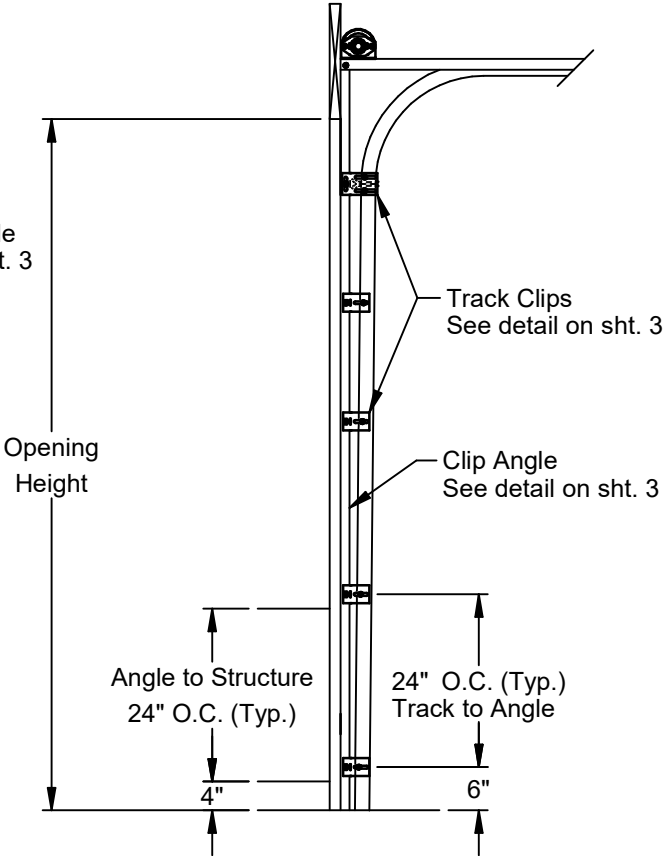
Typical Track Installation
Bracket Mount
Wood Jambs

Normal headroom track shown, low headroom, lift clearance and verical lift track available.



Typical Track Installation
Angle Mount
Wood, Steel or Concrete Jambs

Normal headroom track shown, low headroom, lift clearance and verical lift track available.



Typical Track Installation
Pre-Assembled Clip Angle
Wood, Steel or Concrete Jambs

Normal headroom track shown, lift clearance and verical lift track available.

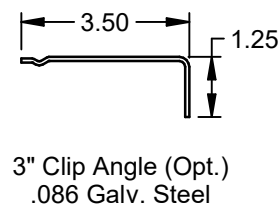
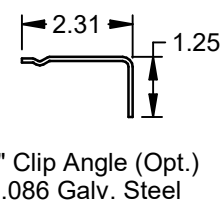
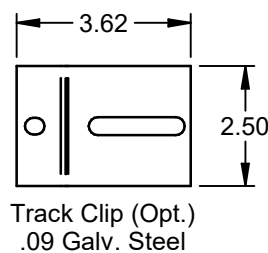
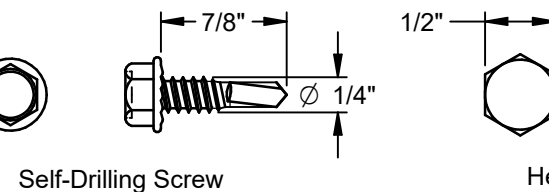
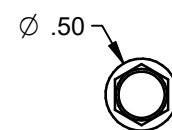
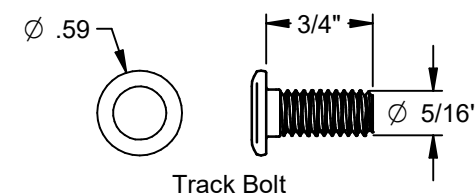
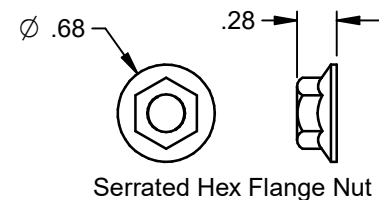
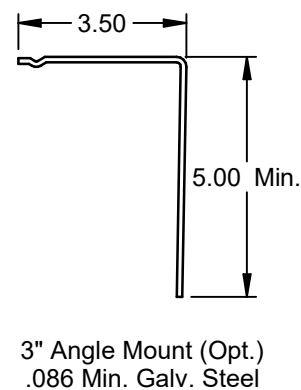
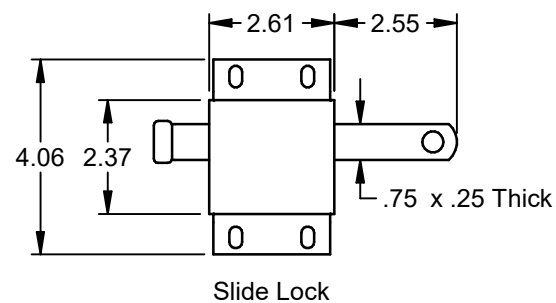
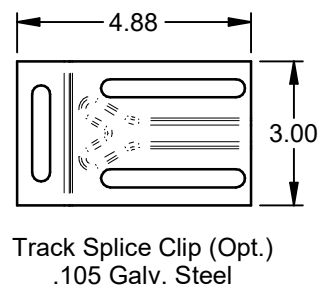
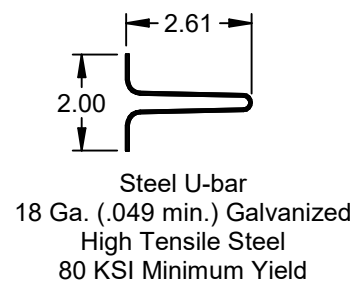
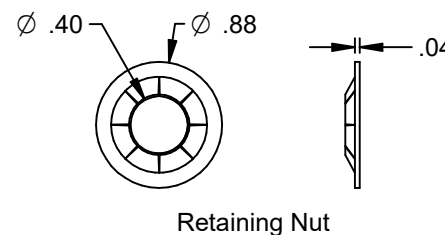
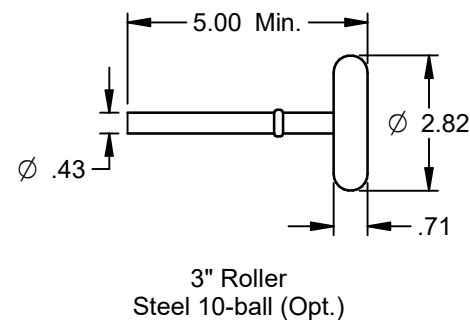
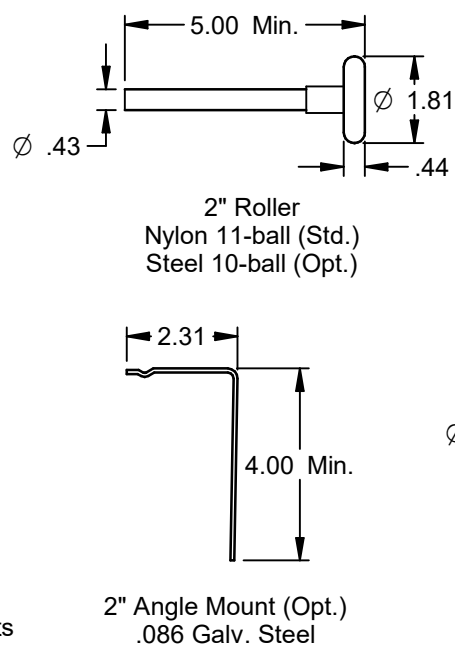
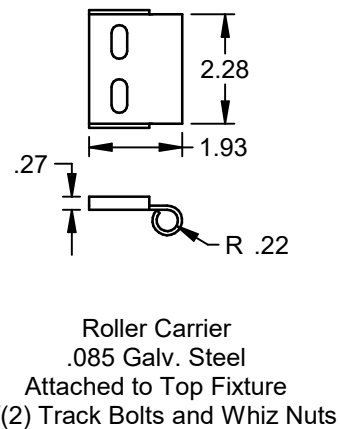
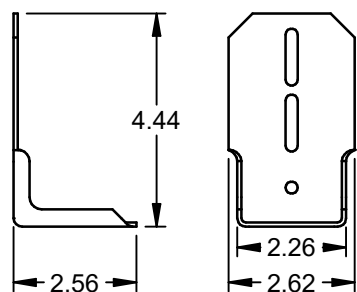
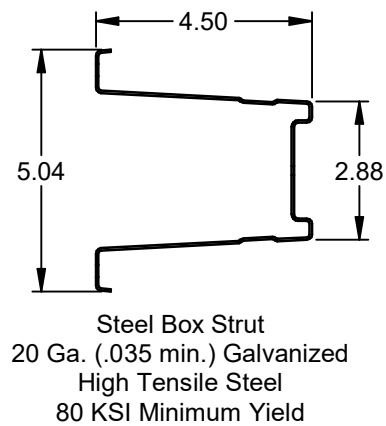
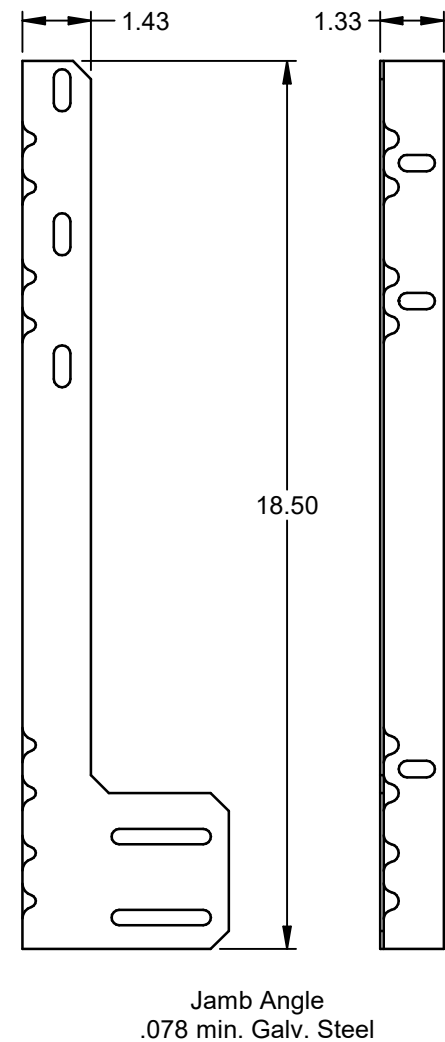
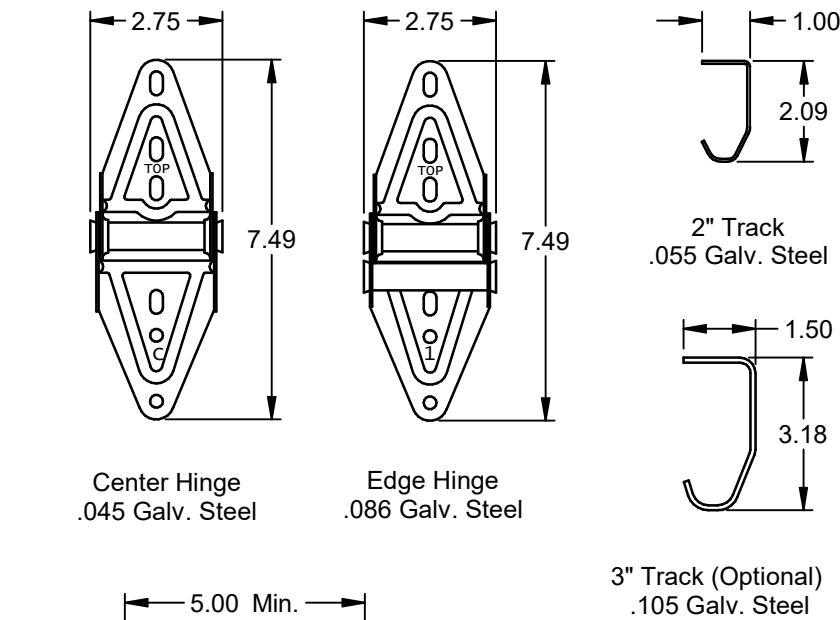
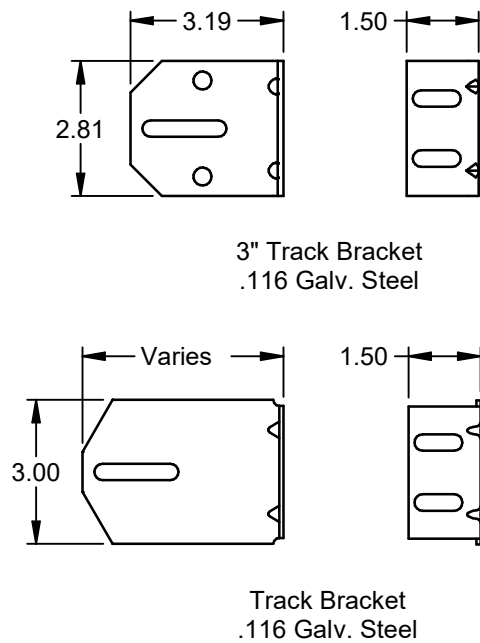
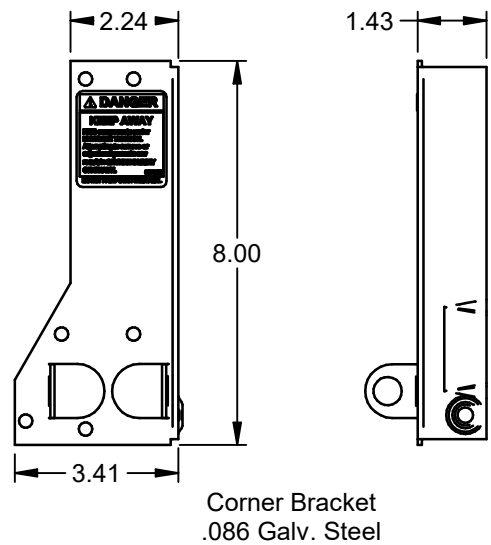


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Checked by: G. Wedekind				
Date: 05/24/22				
ECO: 8593.01			Sheet 2	Rev B



All parts shown are for illustration purposes only. The actual product may include equivalent parts due to availability.



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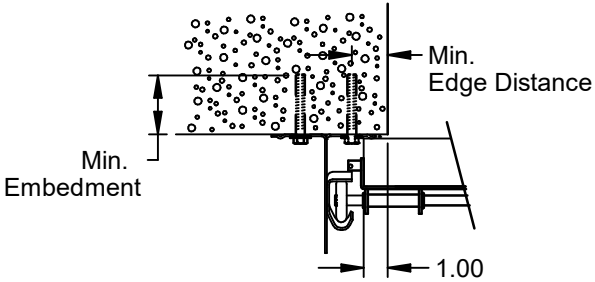
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No. P-2448	Sheet 3	Rev B

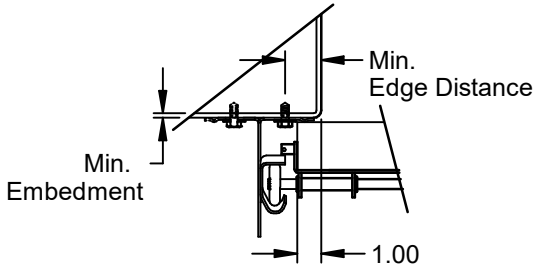
Angle Mount					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Allowable Tension Load (lbs.)
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	36"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	18"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	18"	651
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	36"	971
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	12"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	18"	480

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



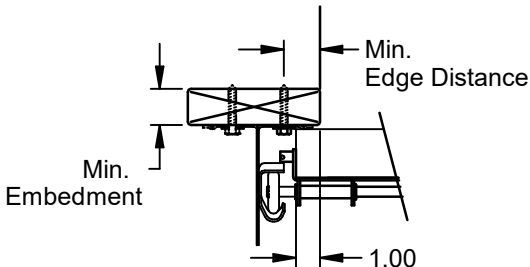
Track Assembly Attachment to 2500 PSI Min. Concrete

2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available



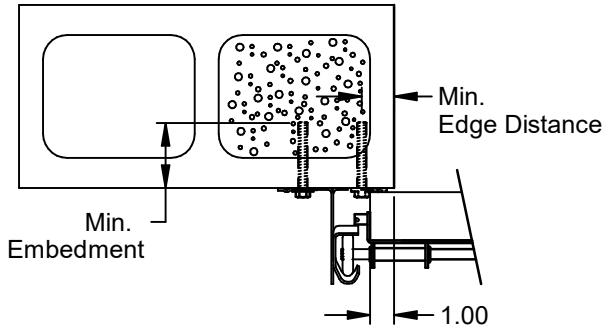
Track Assembly Attachment to 3/16" Min. Steel Jamb

2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available



Track Assembly Attachment to Wood Jamb

2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available



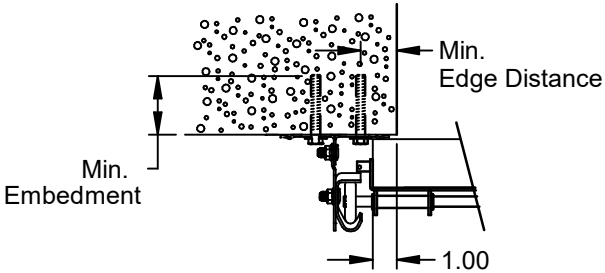
Track Assembly Attachment to Grout Filled CMU Block

2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available

Pre-Assembled Clip Angle					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Allowable Tension Load (Lbs.)
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	24"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	24"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	24"	651
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	24"	971
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	*12"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	*12"	480

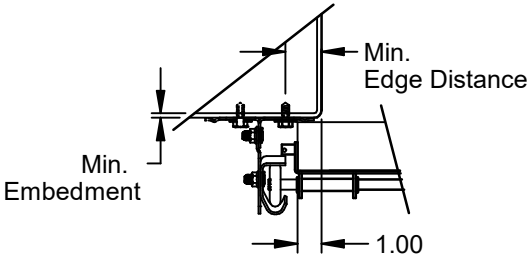
* Field drilling req'd.

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



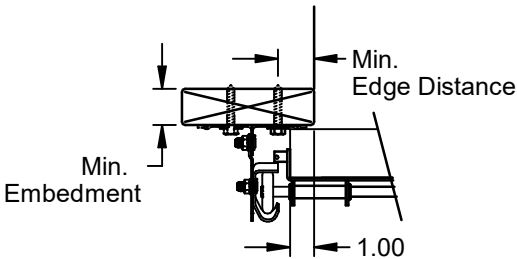
Pre-Assembled Track Assembly Attachment to 2500 PSI Min. Concrete

2" Clip angle turned-in standard (solid)
2" Clip angle turned-out optional (dashed)
3" Clip angle available



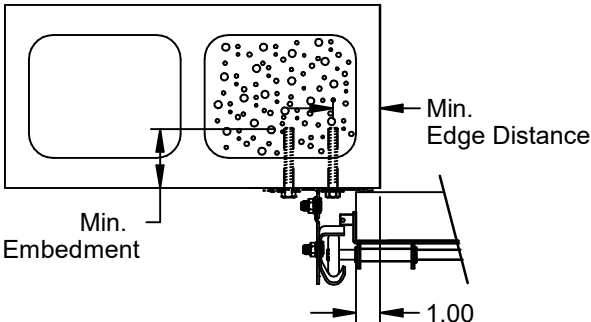
Pre-Assembled Track Assembly Attachment to 3/16" Min. Steel Jamb

2" Clip angle turned-in standard (solid)
2" Clip angle turned-out optional (dashed)
3" Clip angle available



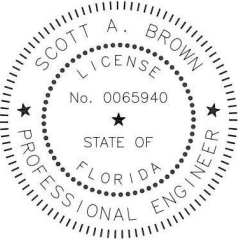
Pre-Assembled Track Assembly Attachment to Wood Jamb

2" Clip angle turned-in standard (solid)
2" Clip angle turned-out optional (dashed)
3" Clip angle available



Pre-Assembled Track Assembly to Grout Filled CMU Block

2" Clip angle turned-in standard (solid)
2" Clip angle turned-out optional (dashed)
3" Clip angle available



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