

Section A-A

Section B-B

Section C-C

Doors tested per ANSI/DASMA 108 for static air pressure

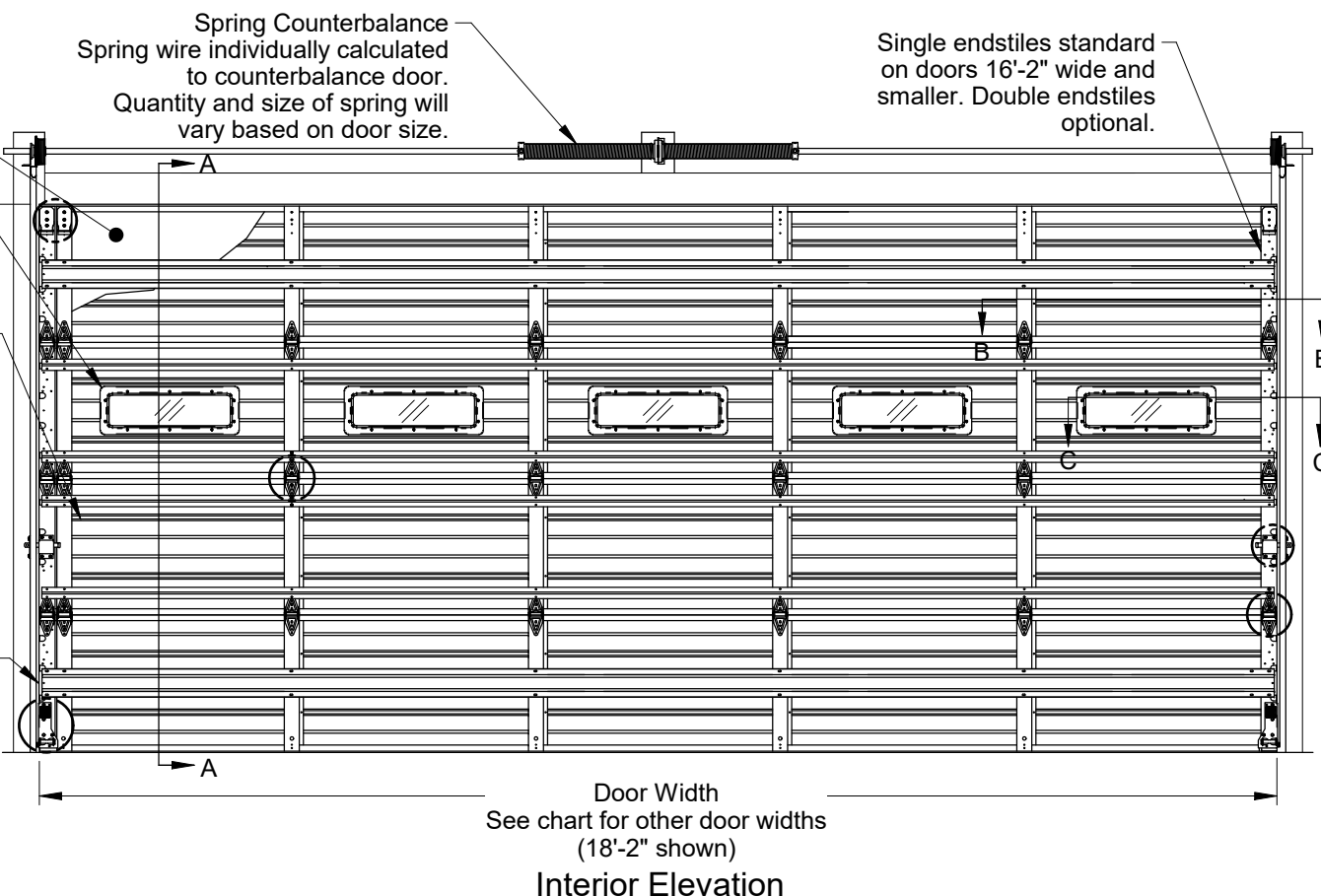
S24C / S24 / MB24 / S20			
Maximum Door Width	Stiles per Section	Center Hinges per Section	Design Load
8' - 2"	1	1	+ 39.8 - 45.2
9' - 2"	1	1	+ 34.0 - 38.5
10' - 2"	2	2	+ 29.6 - 33.4
11' - 2"	2	2	+ 26.1 - 29.5
12' - 2"	2	2	+ 23.4 - 26.3
13' - 2"	3	3	+ 21.1 - 23.8
14' - 2"	3	3	+ 19.2 - 21.6
15' - 2"	3	3	+ 17.6 - 19.8
16' - 2"	3	3	+ 16.3 - 18.3
17' - 2"	4	4	+ 17.3 - 19.4
18' - 2"	4	4	+ 18.1 - 20.2
19' - 2"	4	4	+ 16.3 - 18.1
20' - 2"	4	4	+ 14.7 - 16.4

8'- 0" High shown  
Other door heights available up to 24'-0" using 20" or 24" high sections

Steel Reinforcement  
(1) Box strut per section; (2) Ubar per section on window and lock sections fastened to all center and end stiles using (2) sheet metal screws at each stile.

Locks required on doors not electrically operated.

Double endstiles standard on doors over 16'-2" wide.



Interior Elevation  
Door Width  
See chart for other door widths (18'-2" shown)



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Structural Adequacy for Wind Load

Rev.	Description	ECO	Date	ECO: 6338.01
D	Concrete and CMU lap requirement was 2.00 on clip angle.	8517.02	09/10/21	
C	Added pre-assembled track, MB24 and updated format.	8517.01	02/18/21	
B	1) Was Richard A Baumann, P.E., 2) Updated jamb attachments.	7804.01	10/02/17	

Scale: None

Drawn by: G. Wedekind

Checked by: G. Wedekind

Date: 03/12/12

ECO: 6338.01

**RAYNOR**

1101 East River Road  
Dixon, IL. 61021

Title: Spec, Wind Load  
SteelForm - S24C, S24, MB24, S20

No. **P-2408**

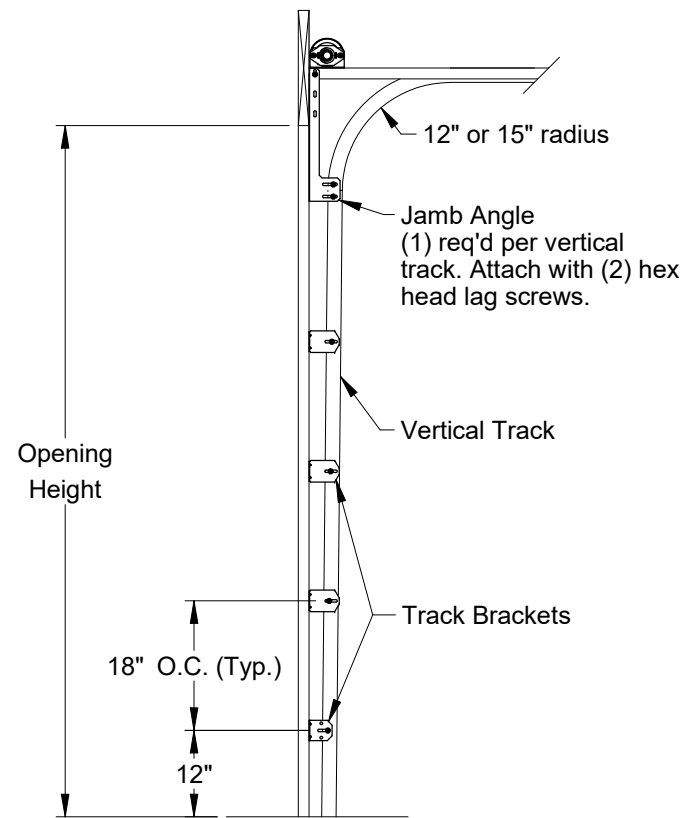
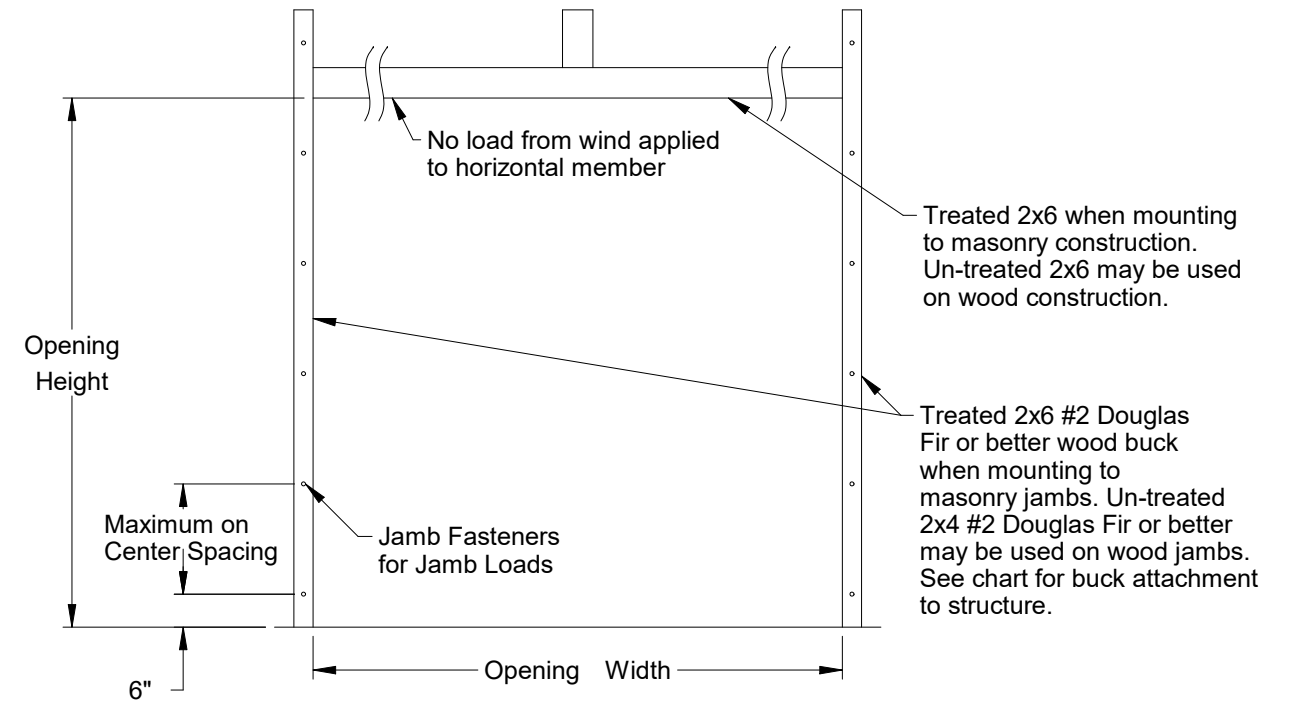
Sheet 1 of 4

Rev **D**

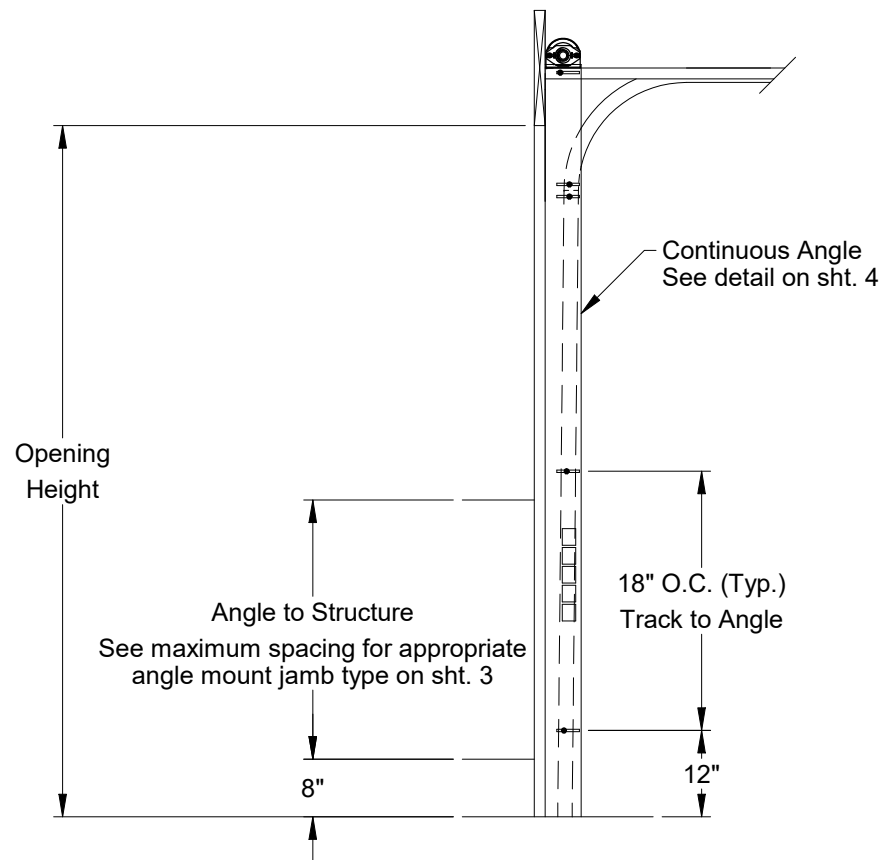
**Jamb Attachment Notes:**

1. Maximum Positive Load per Jamb =  $(18'-2" \times 18.1 \text{ PSF}) / 2 = 165 \text{ lbs. per foot.}$
2. Maximum Negative Load per Jamb =  $(8'-2" \times -45.2 \text{ PSF}) / 2 = 186 \text{ lbs. per foot.}$
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.

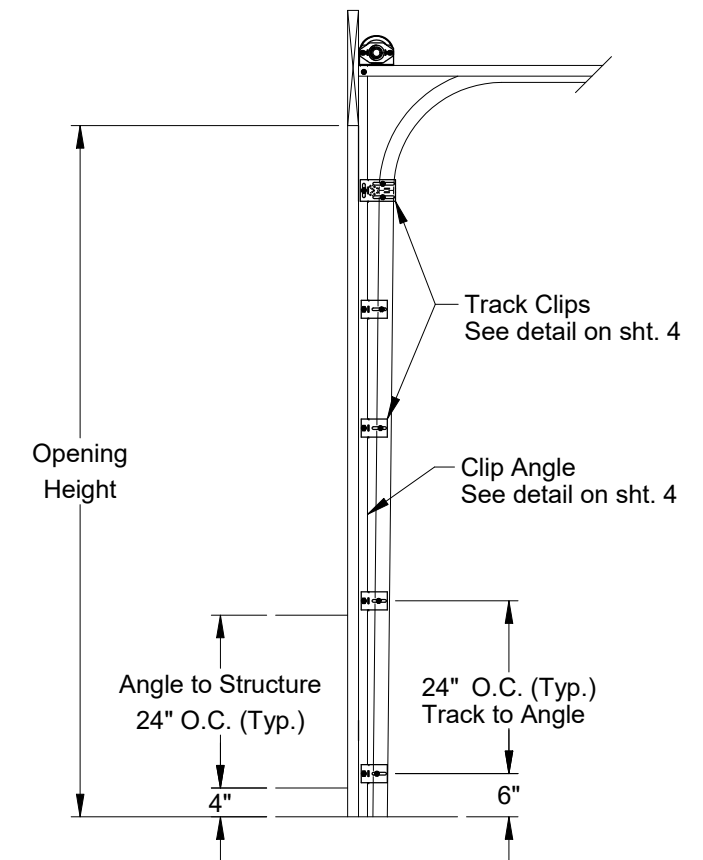
2x6 Attachment to Structure						
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5"	6"	24"	526
Southern Pine	3/8" x 3" Lag with 1-1/8"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



**Typical Track Installation  
Bracket Mount  
Wood Jamb**  
Normal headroom track shown, low headroom, lift clearance and vertical lift track available.



**Typical Track Installation  
Angle Mount  
Wood, Steel or Concrete Jamb**  
Normal headroom track shown, low headroom, lift clearance and vertical lift track available.



**Typical Track Installation  
Pre-Assembled Clip Angle  
Wood, Steel or Concrete Jamb**  
Normal headroom track shown, lift clearance and vertical lift track available.

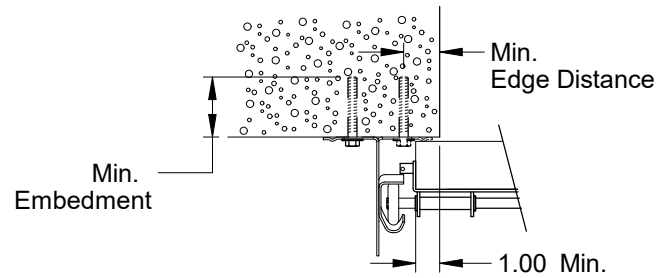


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Structural Adequacy for Wind Load

Scale: None	<p>1101 East River Road Dixon, IL 61021</p>	Title: Spec, Wind Load SteelForm - S24C, S24, MB24, S20	
Drawn by: G. Wedekind		No. P-2408	Sheet 2
Checked by: G. Wedekind			
Date: 03/12/12		ECO: 6338.01	

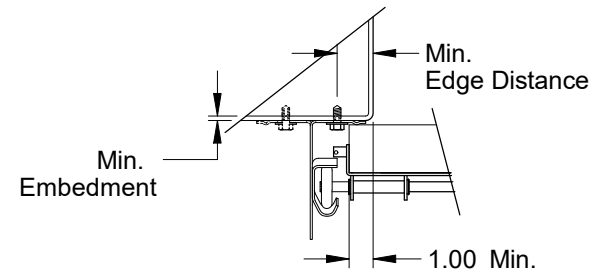
Angle Mount					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Allowable Tension Load (lbs.)
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	36"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	36"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	36"	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"	18"	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.



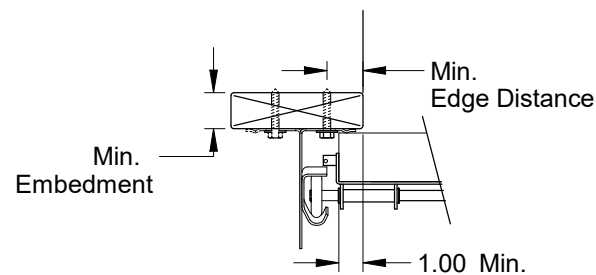
**Track Assembly Attachment to 2500 PSI Min. Concrete**

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



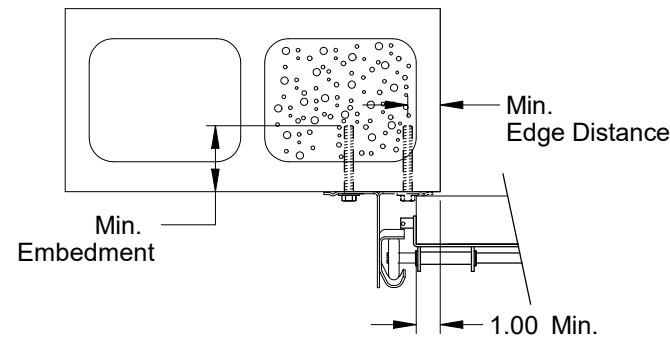
**Track Assembly Attachment to 3/16" Min. Steel Jamb**

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**

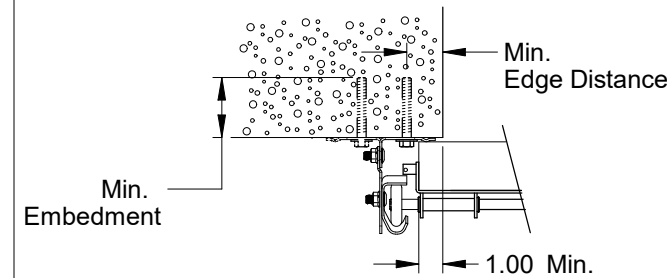
2" Angle mount turned-out standard (solid)  
2" Angle mount turned-in optional (dashed)  
3" Angle mount available



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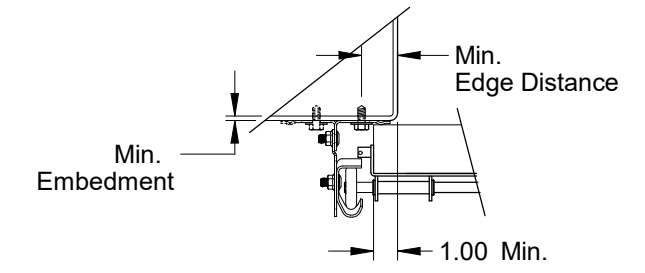
Pre-Assembled Clip Angle					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Allowable Tension Load (Lbs.)
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	24"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	24"	687
	1/4" x 2-5/8" 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"	24"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	24"	480

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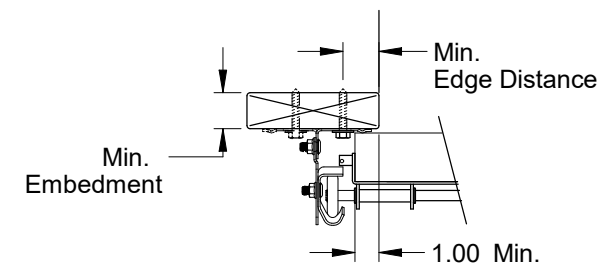
**Pre-Assembled Track Assembly Attachment to 2500 PSI Min. Concrete**

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



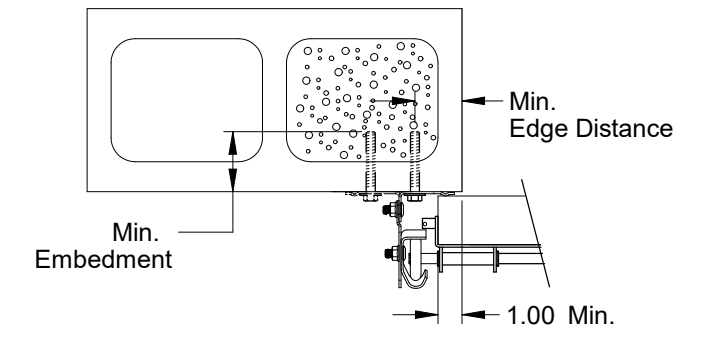
**Pre-Assembled Track Assembly Attachment to 3/16" Min. Steel Jamb**

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



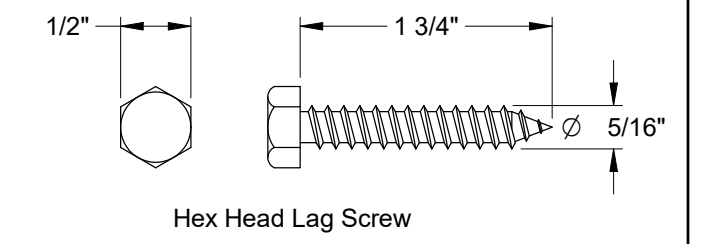
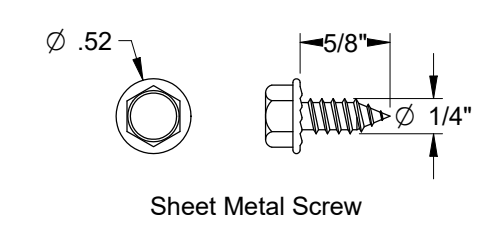
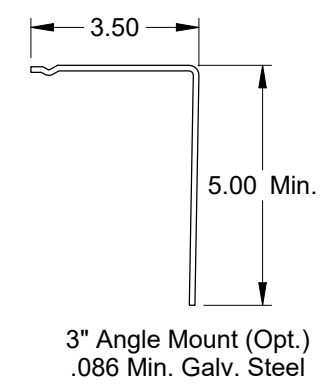
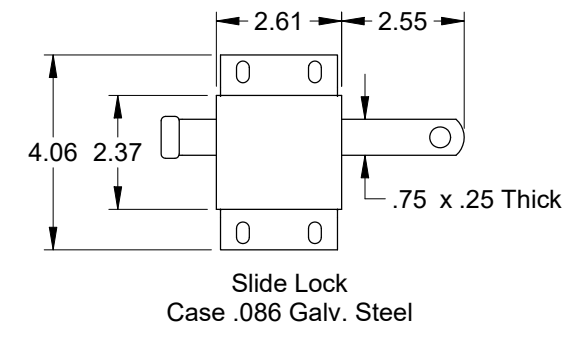
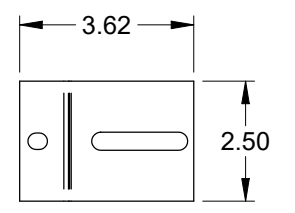
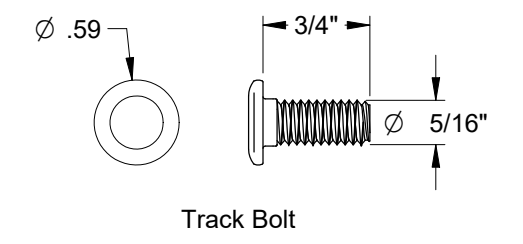
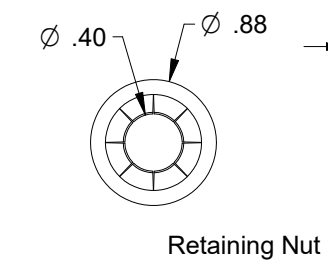
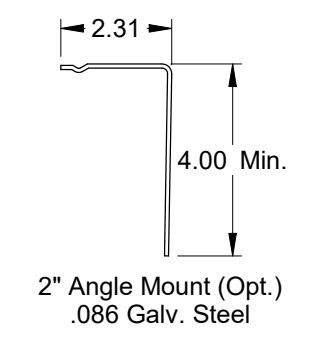
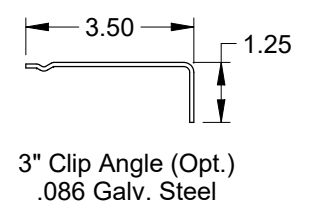
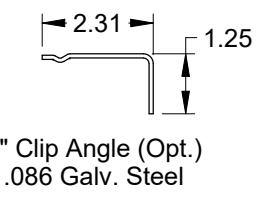
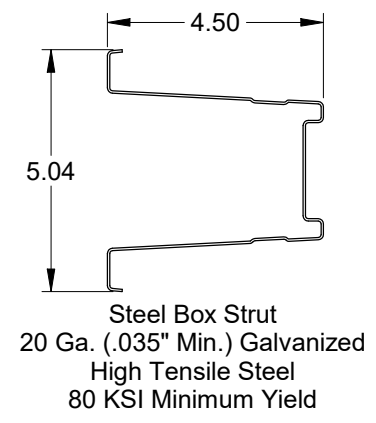
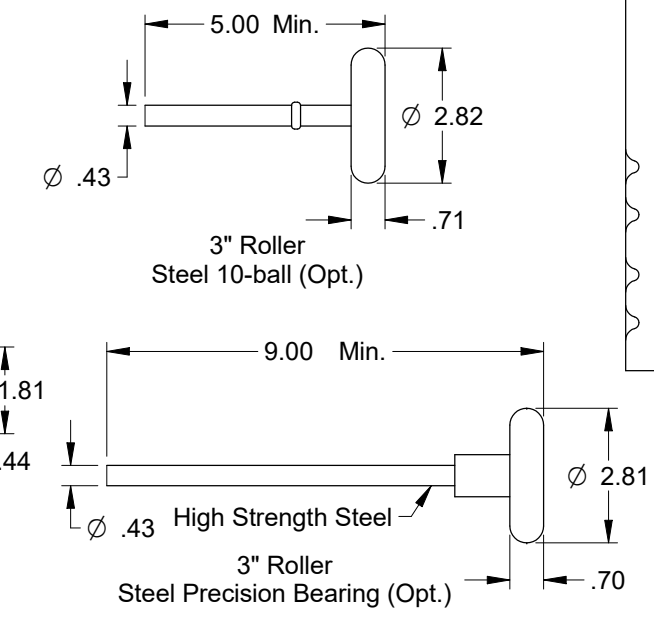
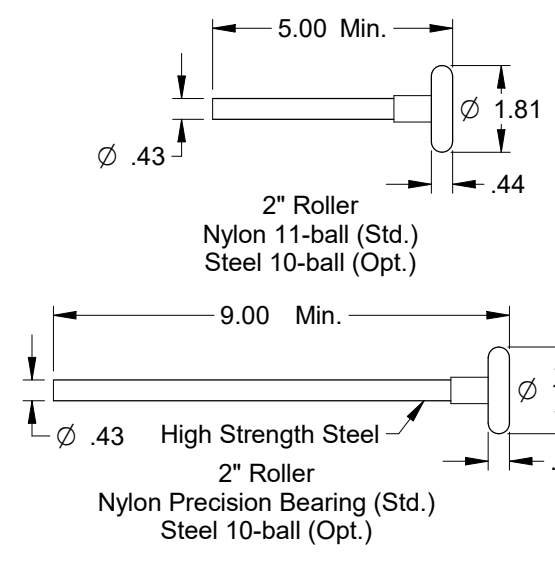
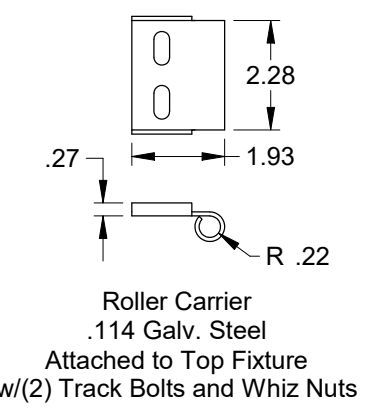
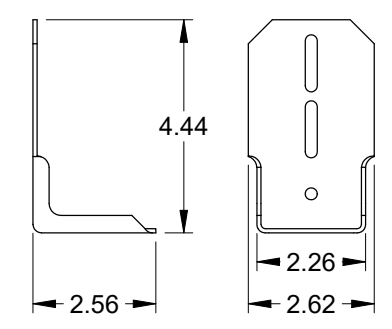
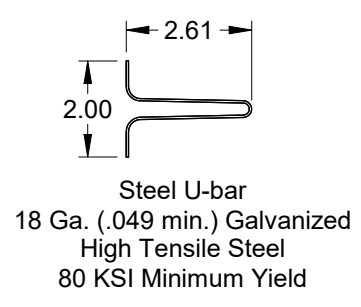
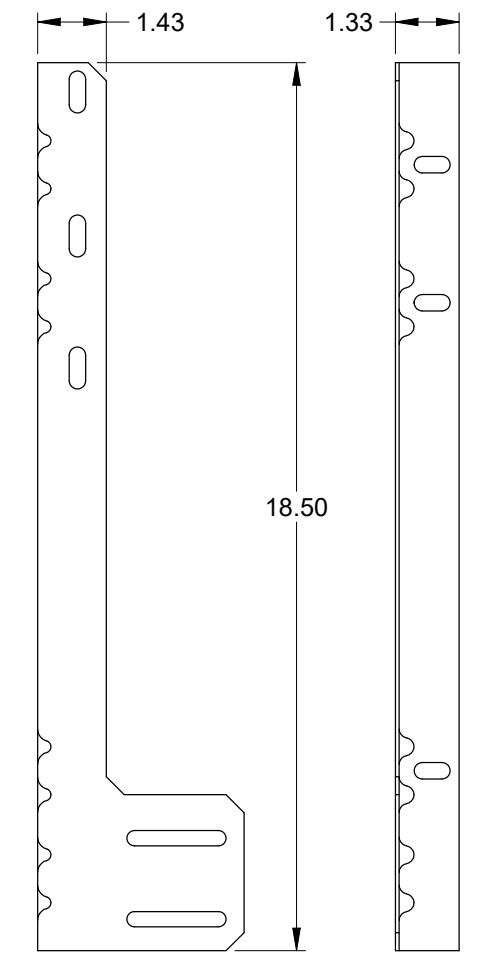
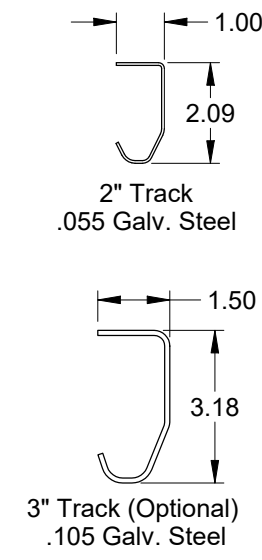
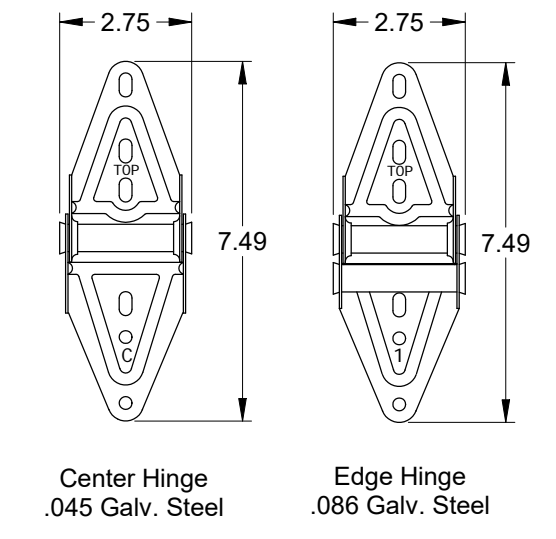
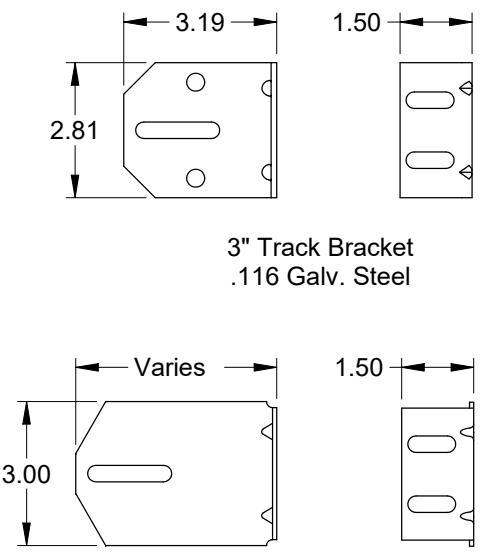
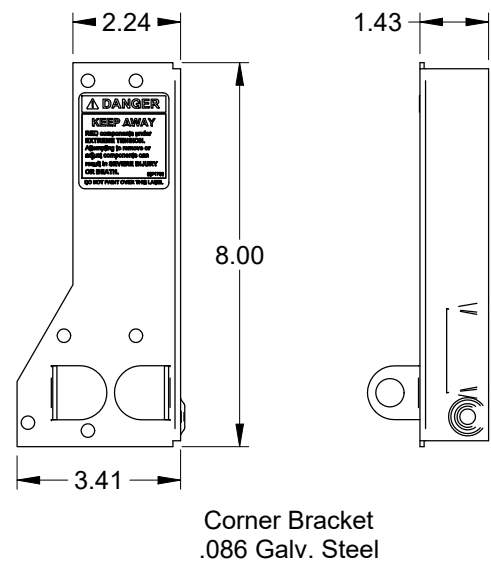
**Pre-Assembled Track Assembly Attachment to Grout Filled CMU Block**

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

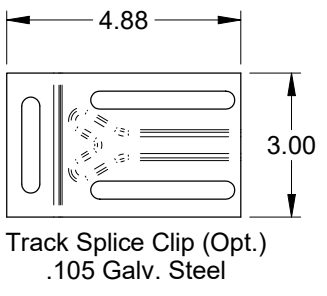
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Drawn by: G. Wedekind
Checked by: G. Wedekind
Date: 03/12/12
ECO: 6338.01



Title: Spec, Wind Load SteelForm - S24C, S24, MB24, S20	
No. P-2408	Rev D
Sheet 3	



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Structural Adequacy for Wind Load



Scale: None
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Title: Spec, Wind Load SteelForm - S24C, S24, MB24, S20		
No. P-2408	Sheet 4	Rev D