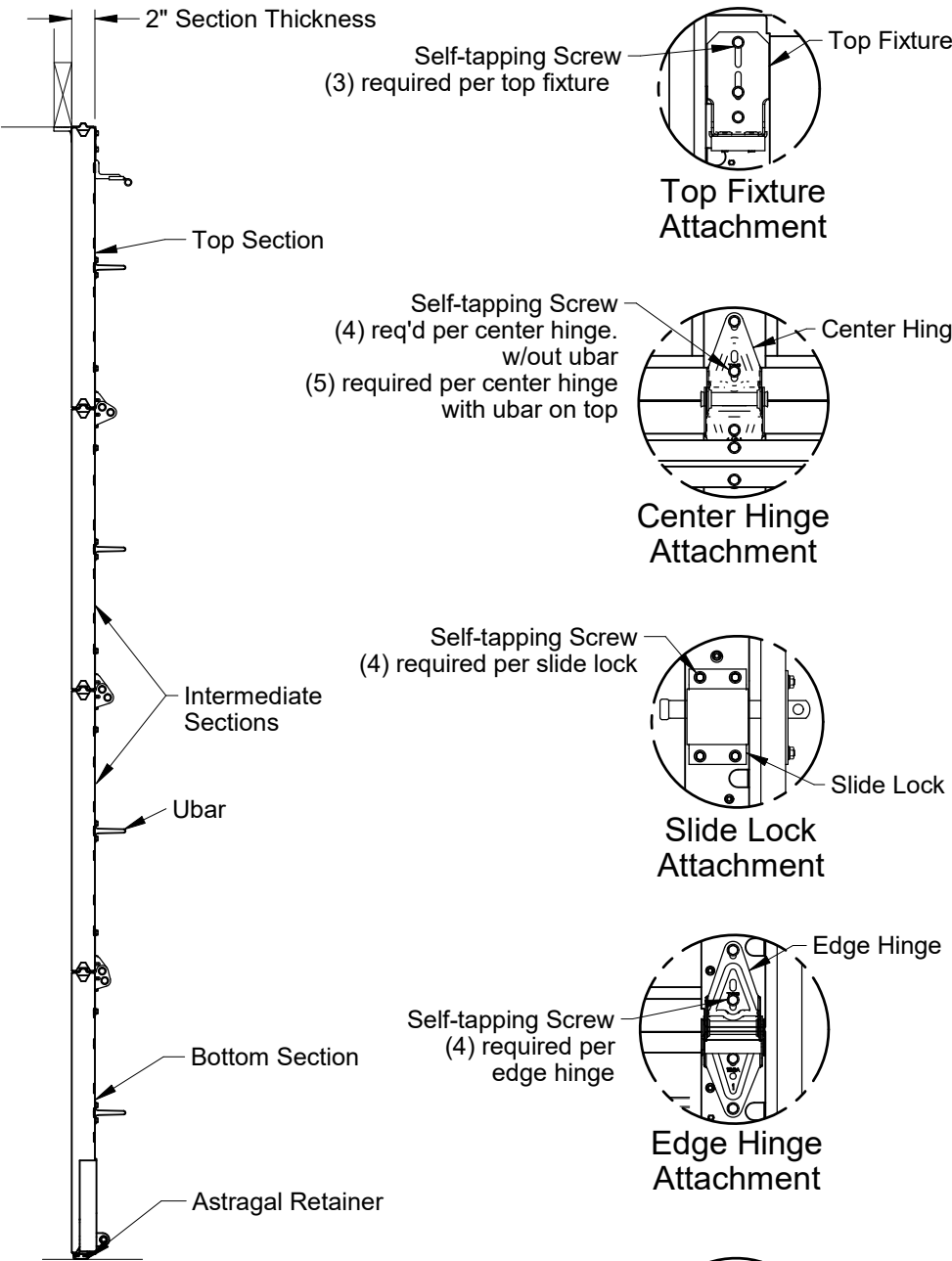
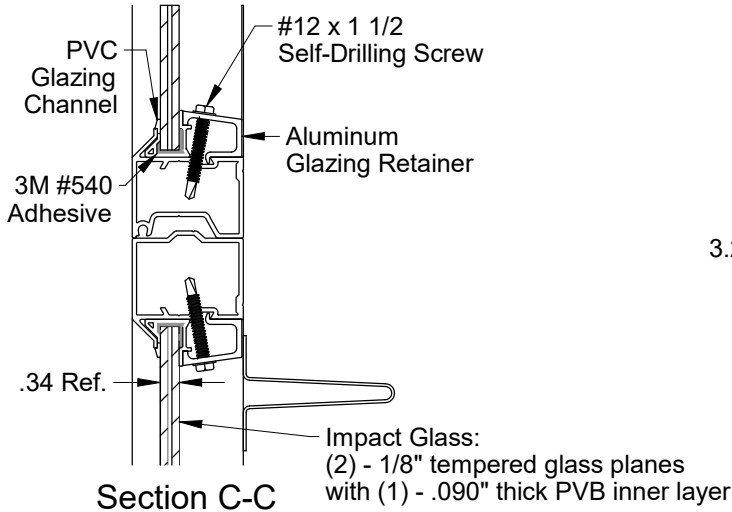
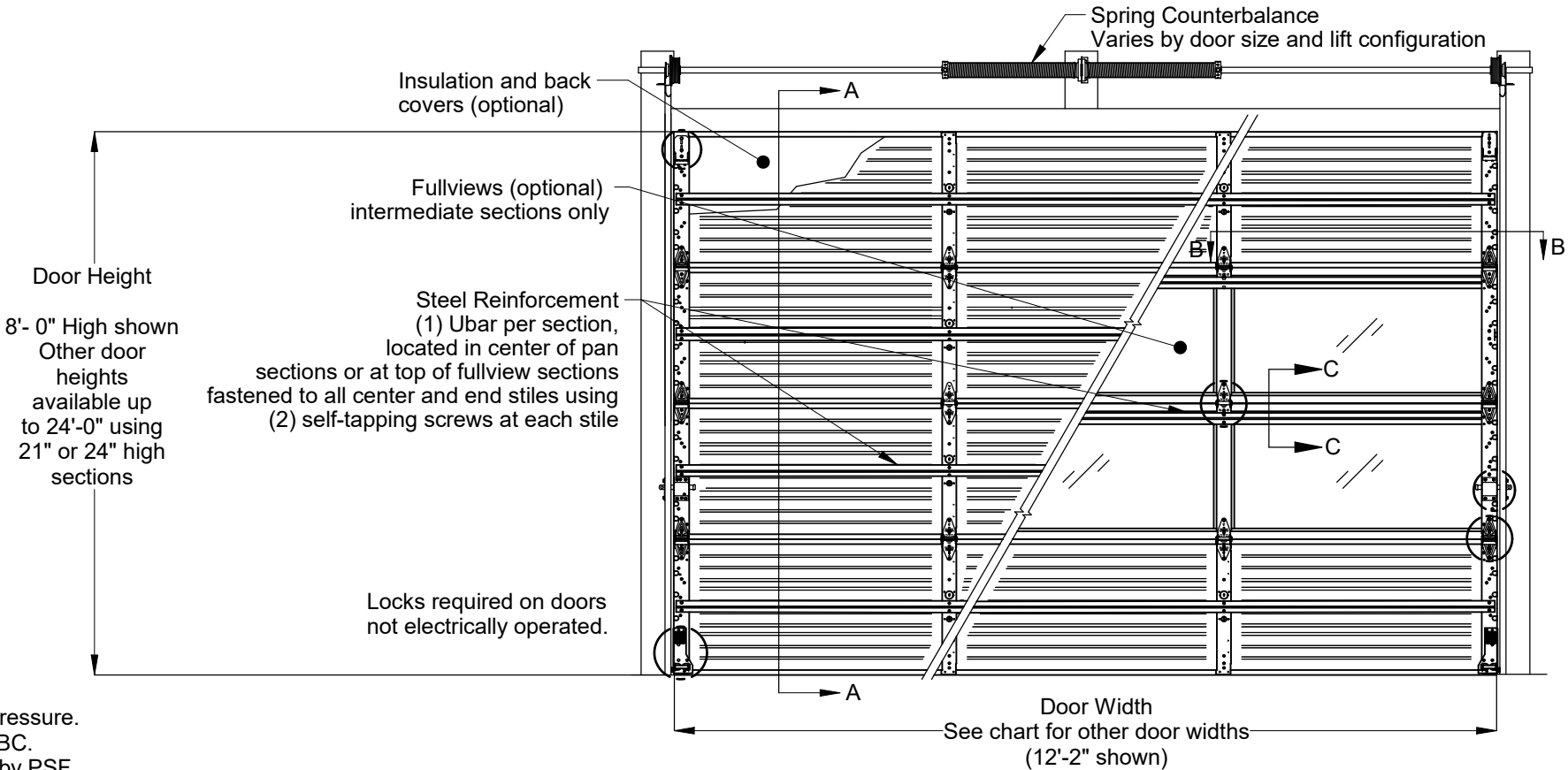
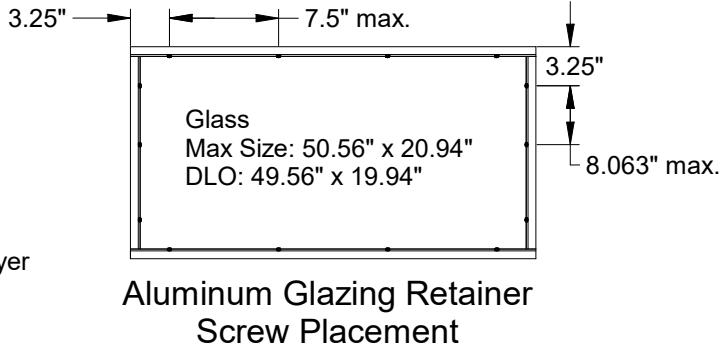
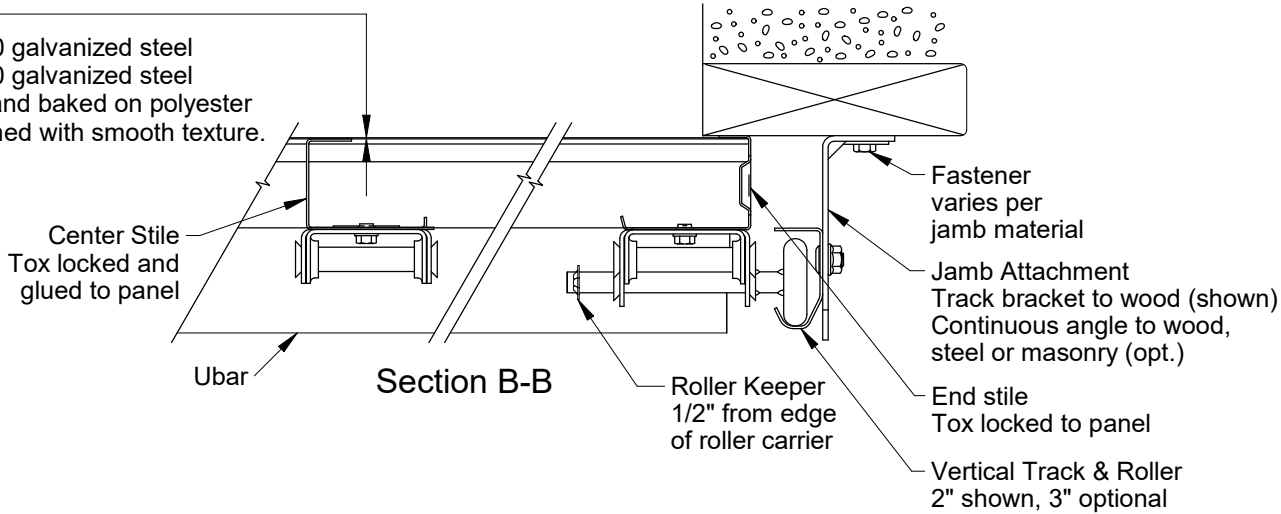




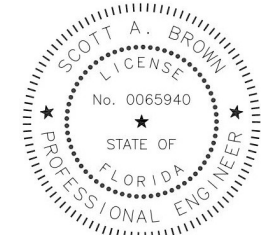
Section A-A



Steel Section
SP24 - .022 thick G-40 galvanized steel
SP20 - .035 thick G-40 galvanized steel with an epoxy primer and baked on polyester finish which is roll-formed with smooth texture.



FL#47394



Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
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Date: 2025.10.13 15:16:52-05'00'

Doors tested per
ANSI/DASMA 108 for static air pressure
ANSI/DASMA 115 for large missile impact and cyclic wind 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.

Maximum Door Width	Hinge Rows	Panels	Design Loads		End Stiles
8'-2"	1	2	32.3	-36.5	Single (Std.) Double (Opt.)
9'-2"					
10'-2"					
12'-2"	2	3	21.9	-24.6	

Rev.	Description	ECO	Date
C	Added fullview window option on sht 1, 5/8" self-tapping screws on sht 4, drywall/sheathing detail on sht 3.	9203.04	10/02/25
B	Door height was 18'-0" on sheet 1.	9203.02	06/11/25
A	New release for production.	9203.01	03/21/25

Scale: None
Drawn by: Max Kozeal
Checked by: R. Frey
Date: 03/21/25
ECO: 9203.01



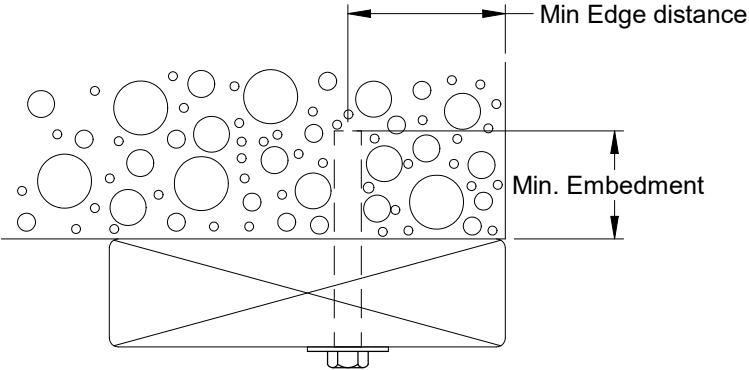
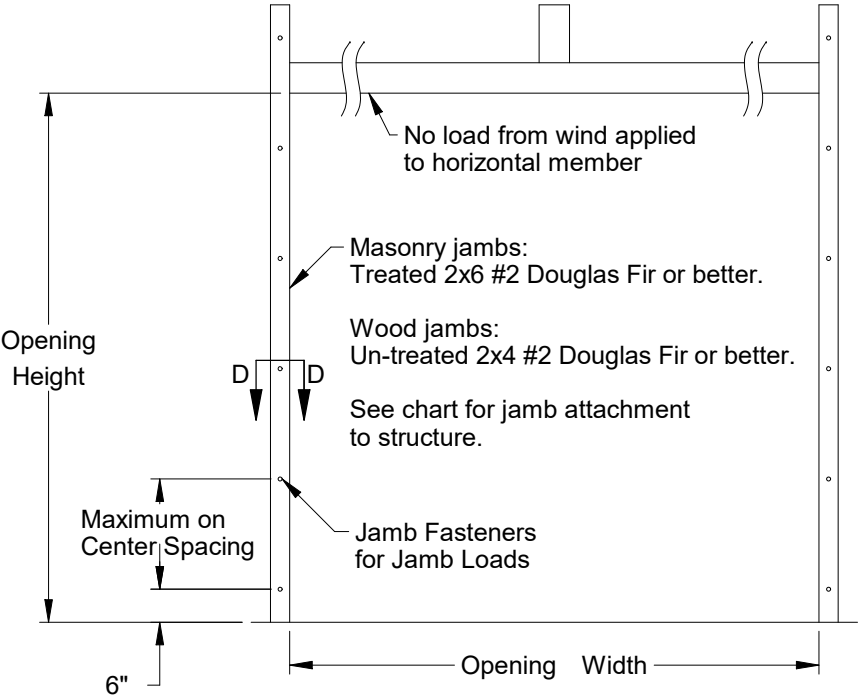
Title: Spec, Wind Load SteelPro - SP24 / SP20		
No. P-3334	Sheet 1 of 4	Rev C

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.

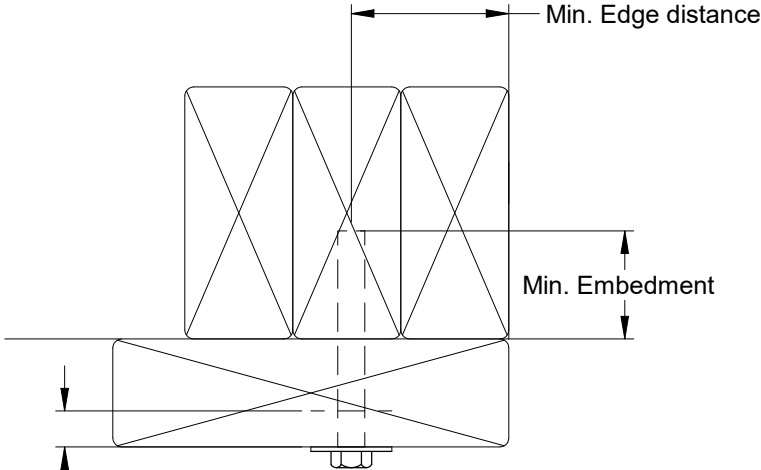
Max. Positive Jamb Load	
(9'-2" x 32.3 PSF) / 2 =	149 lbs. per foot

Max. Negative Jamb Load	
(9'-2" x -36.5 PSF) / 2 =	168 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

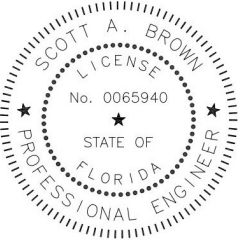


Section D-D
2500 PSI Min. Concrete



Section D-D
Southern Pine or Spruce Pine Fir

fasteners may be countersunk up to 1/2"

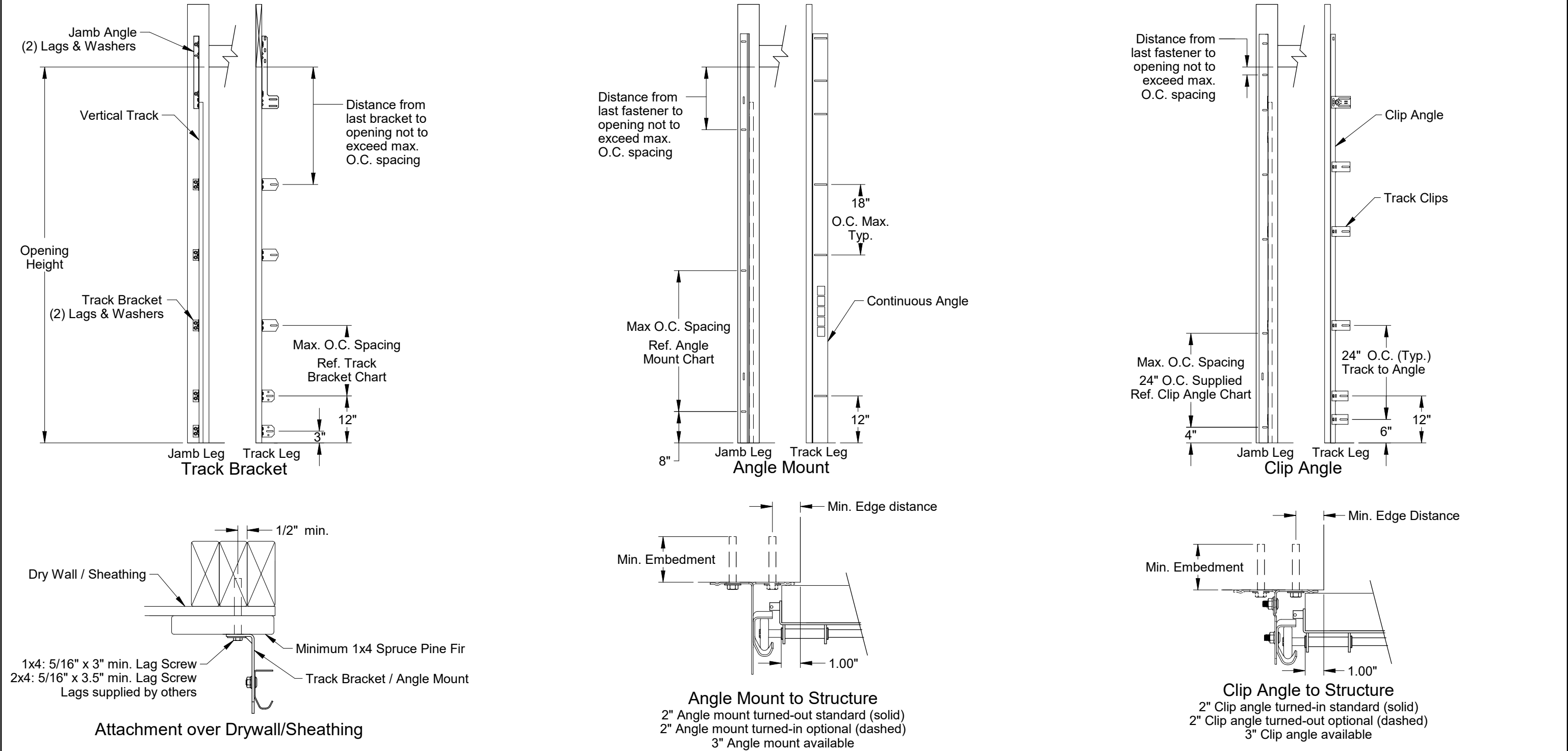


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Digitally signed by Scott A Brown
Date: 2025.10.13 15:17:27-05'00'

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Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load SteelPro - SP24 / SP20		
Drawn by: Max Kozeal		No. P-3334	Sheet 2	Rev C
Checked by: R. Frey				
Date: 03/21/25 ECO: 9203.01				



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Date: 2025.10.13 15:17:57-05'00'

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Jamb Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Allowable Tension Load (lbs.)	Track Bracket	Angle Mount	Clip Angle
					Max. on Center Spacing	Max. on Center Spacing	Max. on Center Spacing
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	893	N/A	18"	24"
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	687	N/A	18"	24"
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	651	N/A	18"	24"
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	971	N/A	18"	24"
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	352	18"	18"	24"
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	480	N/A	18"	24"

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

Scale: None

Drawn by: Max Kozeal

Checked by: R. Frey

Date: 03/21/25

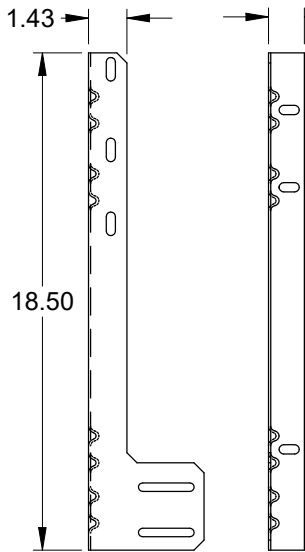
ECO: 9203.01

1101 East River Road
Dixon, IL. 61021

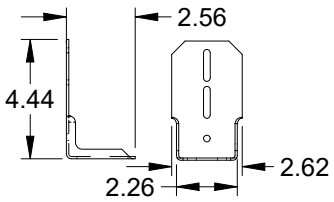
Title: Spec, Wind Load
SteelPro - SP24 / SP20

No. P-3334	Sheet 3	Rev C
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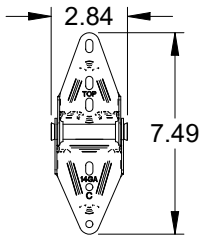
Installation Hardware



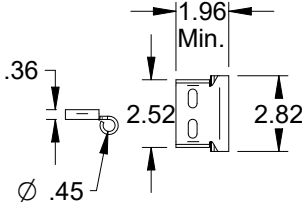
Jamb Angle
.078 Galv. Steel
(14 ga.)



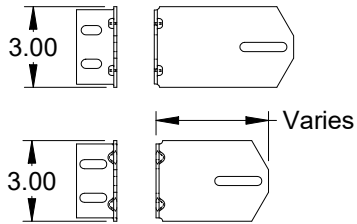
Top Fixture
.085 Galv. Steel
(13 ga.)



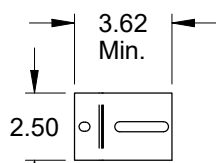
Center Hinge
.045 min. Galv. Steel
(18 ga.)



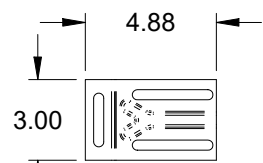
Roller Carrier
.114 Galv. Steel
(11 ga.)



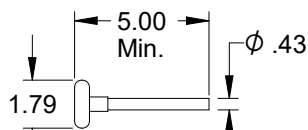
Track Bracket
.116 Galv. Steel
(11 ga.)



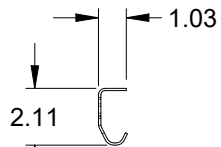
Track Clips (Opt.)
.09 Galv. Steel
(13 ga.)



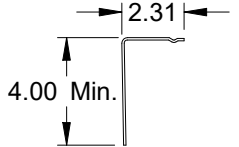
Track Splice Clips (Opt.)
.105 Galv. Steel
(12 ga.)



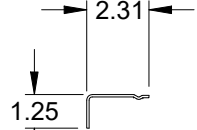
2" Roller
Nylon 10-ball (Std.)
Steel 10-ball (Opt.)



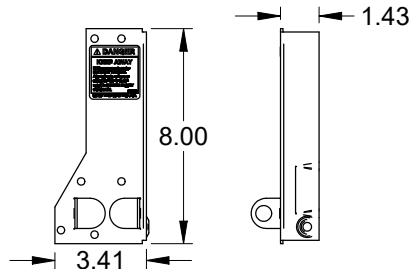
2" Track
.086 Galv. Steel
(13 ga.)



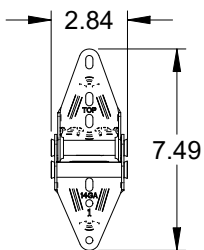
2" Angle Mount (Opt.)
.086 Galv. Steel
(13 ga.)



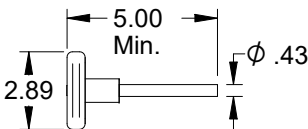
2" Clip Angle (Opt.)
.086 Galv. Steel
(13 ga.)



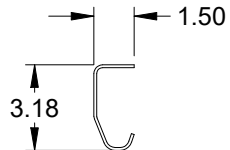
Corner Bracket
.086 Galv. Steel
(13 ga.)



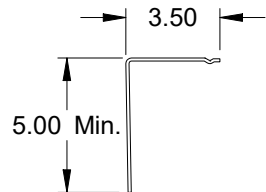
Edge Hinge
.069 min. Galv. Steel
(14 ga.)



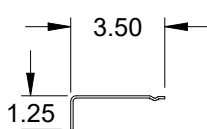
3" Roller
Steel 10-ball (Opt.)



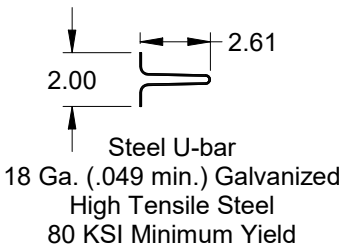
3" Track (Opt.)
.105 Galv. Steel
(12 ga.)



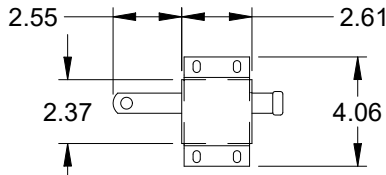
3" Angle Mount (Opt.)
.086 Min. Galv. Steel
(13 ga.)



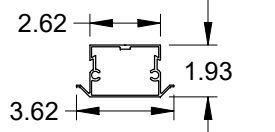
3" Clip Angle (Opt.)
.086 Galv. Steel
(13 ga.)



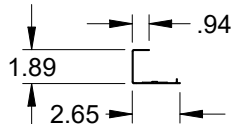
Steel U-bar
18 Ga. (.049 min.) Galvanized
High Tensile Steel
80 KSI Minimum Yield



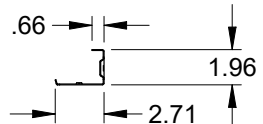
Slide Lock



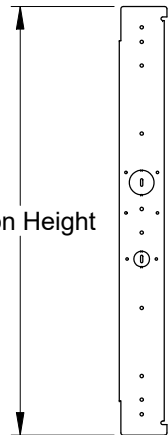
Center Stile
.063 Extruded Aluminum



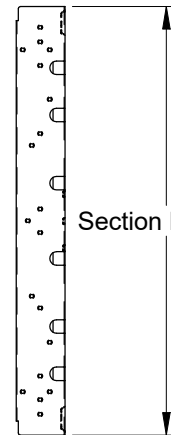
Section Height



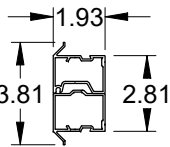
Section Height



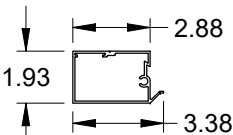
Center Stile
.043 min Galv. Steel
(18 ga.)



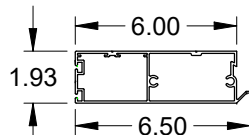
End Stile
.043 min Galv. Steel
(18 ga.)



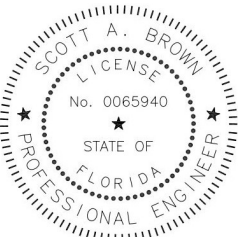
Meeting Rail
.075 Extruded Aluminum



Single End Stile
.075 Extruded Aluminum



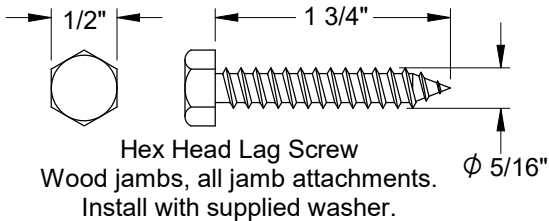
Double End Stile (Opt.)
.080 Extruded Aluminum



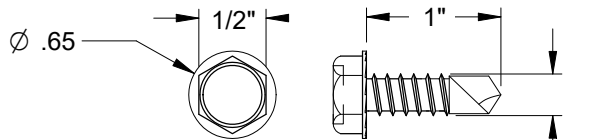
Scott A. Brown, P.E. Lic. No. 65940
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809 E 2nd St, Dixon, IL 61021
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Date: 2025.10.13 15:18:30-05'00'

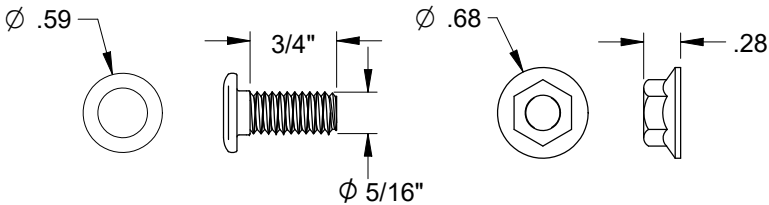
Fasteners & Small Hardware



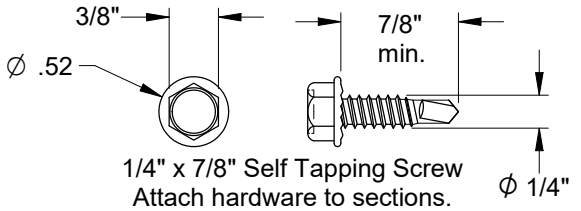
Hex Head Lag Screw
Wood jambs, all jamb attachments.
Install with supplied washer.



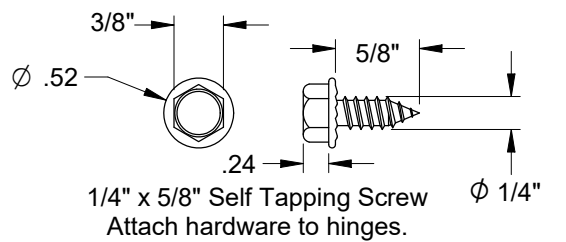
5/16" x 1" Self Drilling Screw
Angle mount & clip angle to steel jambs.
Install with supplied washer.



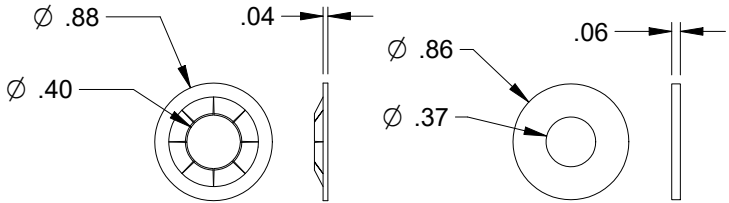
Track Bolt & Serrated Hex Flange Nut
Attach track to jamb attachment with track bolt and hex flange nut. (1) each required per punch.
(2) Track bolts and (2) nuts connect top fixture and roller carrier.



1/4" x 7/8" Self Tapping Screw
Attach hardware to sections.



1/4" x 5/8" Self Tapping Screw
Attach hardware to hinges.



Roller Keeper
(1) per roller.

Washer
Wood Jambs: (1) per hex head lag
Steel Jambs: (1) per 5/16" x 1" self-drilling screw.

Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load SteelPro - SP24 / SP20		
Drawn by: Max Kozeal		No. P-3334	Sheet 4	Rev C
Checked by: R. Frey				
Date: 03/21/25				
ECO: 9203.01				