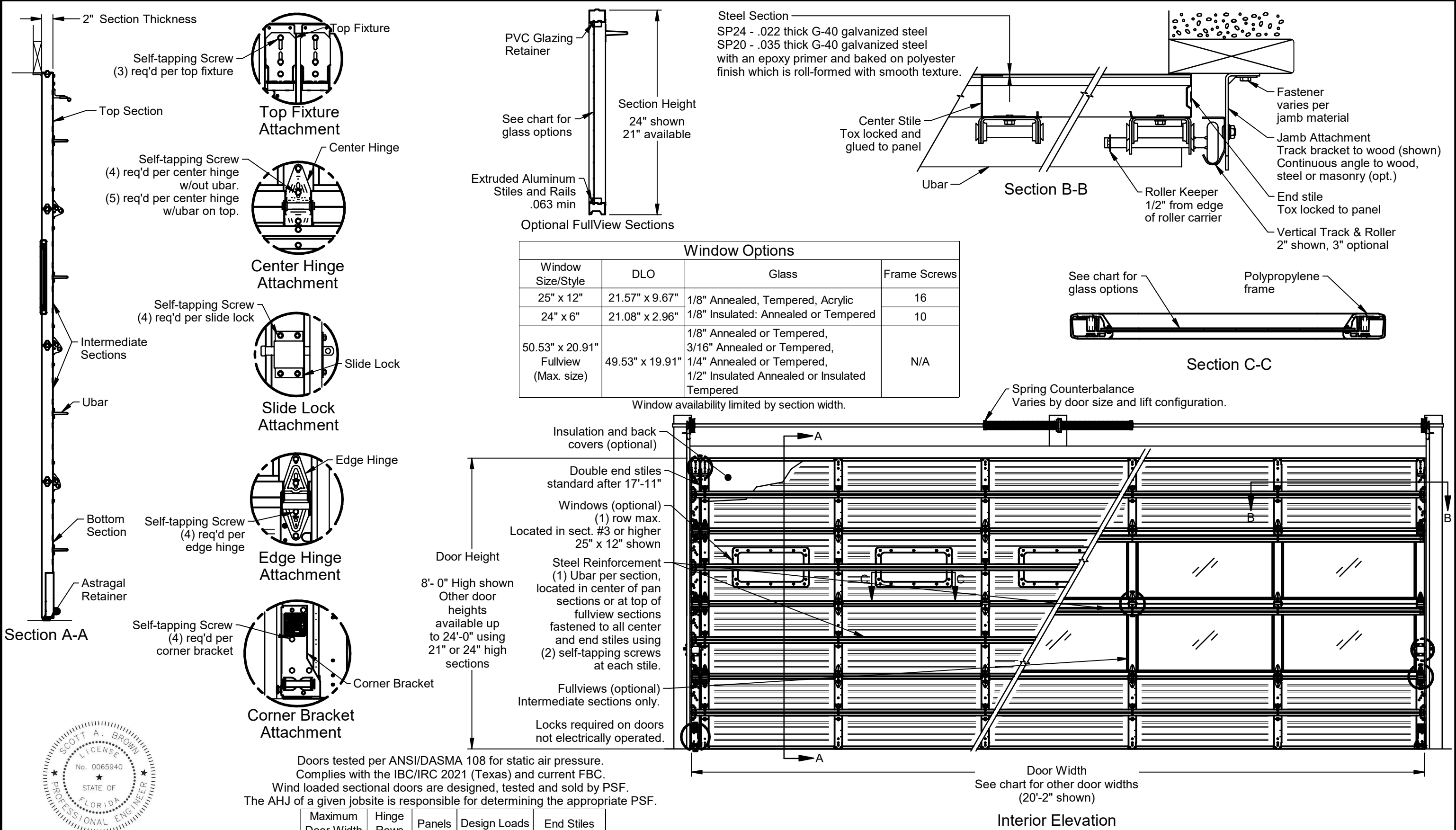


Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Digitally signed by Scott A Brown
Date: 2026.02.08 12:06:50-06'00'

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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.

Maximum Door Width	Hinge Rows	Panels	Design Loads		End Stiles
8'-2"	1	2	36.2	-41.0	Single (Std.) Double (Opt.)
9'-2"			32.3	-36.5	
10'-2"			26.2	-29.4	
12'-2"	2	3	21.9	-24.6	Single (Std.) Double (Opt.)
14'-2"			14.0	-15.7	
16'-2"			12.3	-13.8	
18'-2"	3	4	11.1	-11.7	Double (Std.)
20'-2"			10.0	-10.5	

Rev.	Description	ECO	Date	ECO: 9203.01
E	Track was 13ga. in error changed to 16ga. on sheet 4.	9203.05	01/06/26	
D	Added 5/8" screws on sht 4, drywall/sheathing dtl. on sht 3 and updated DLO/glass options. 20'-2" design load on sht 1	9203.04	10/02/25	
C	Added fullview window option.	9203.03	08/04/25	

Scale: None
Drawn by: Max Kozeal
Checked by: R. Frey
Date: 02/20/25

RAYNOR
GARAGE DOORS
1101 East River Road
Dixon, IL. 61021

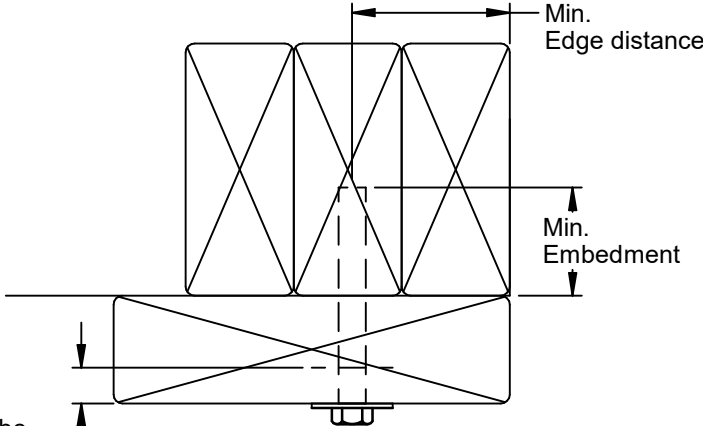
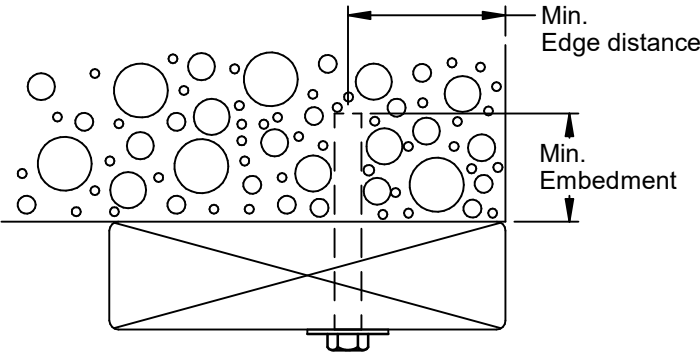
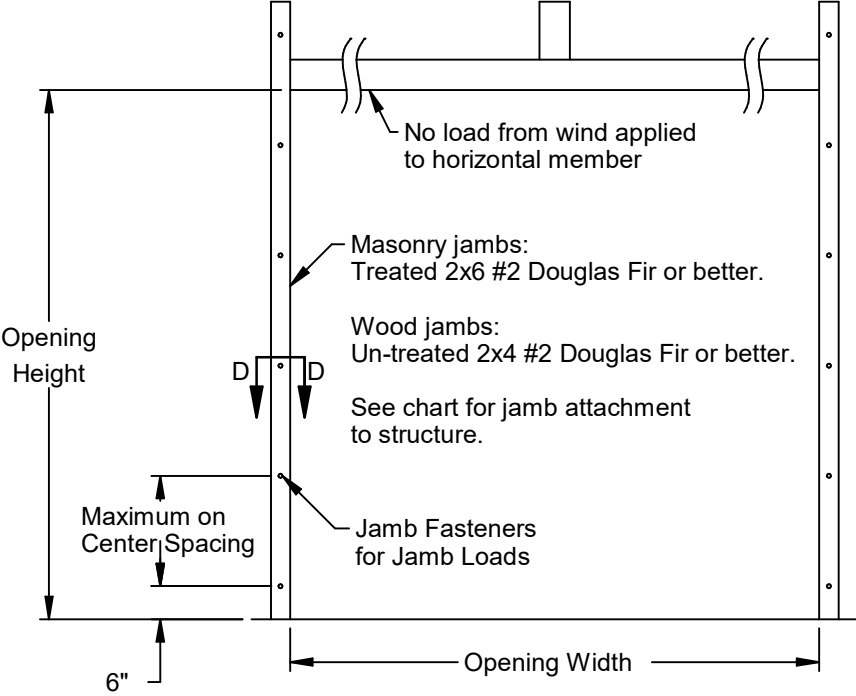
Title: Spec, Wind Load SteelPro - SP24 / SP20			
No.	P-2602	Sheet 1 of 4	Rev E

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.

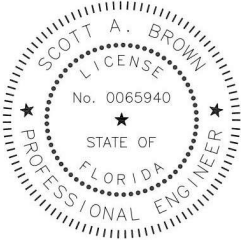
Max. Positive Jamb Load	
(9'-2" x 32.3 PSF) / 2 =	149 lbs. per foot

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



Fasteners may be countersunk up to 1/2"

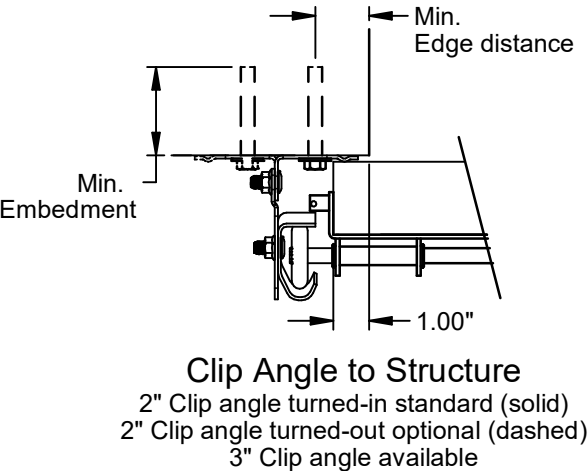
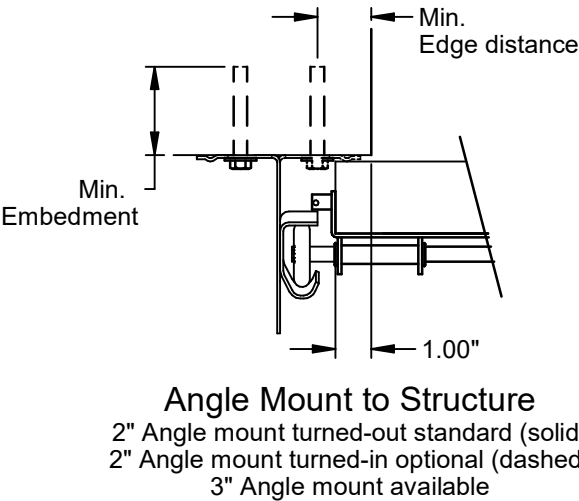
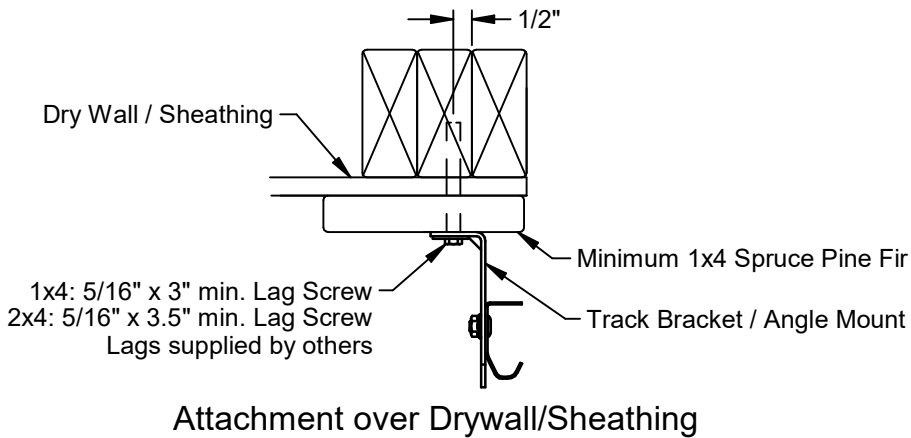
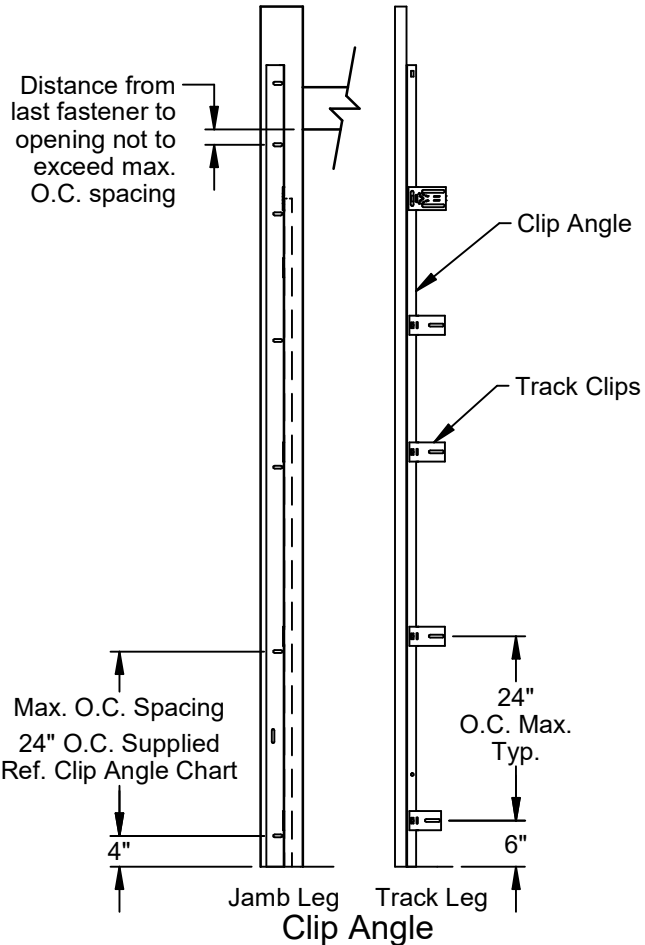
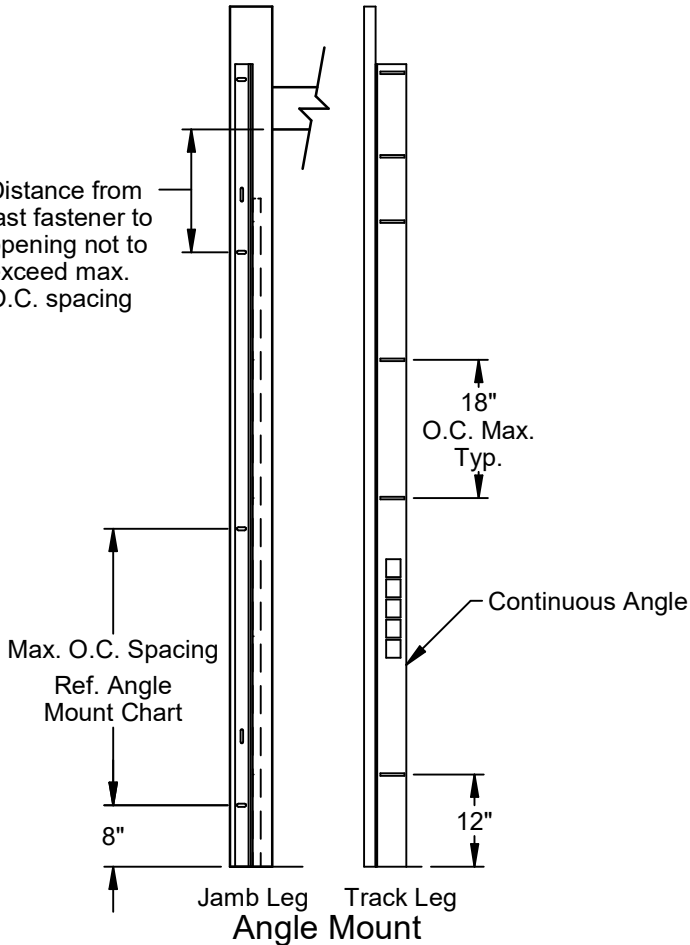
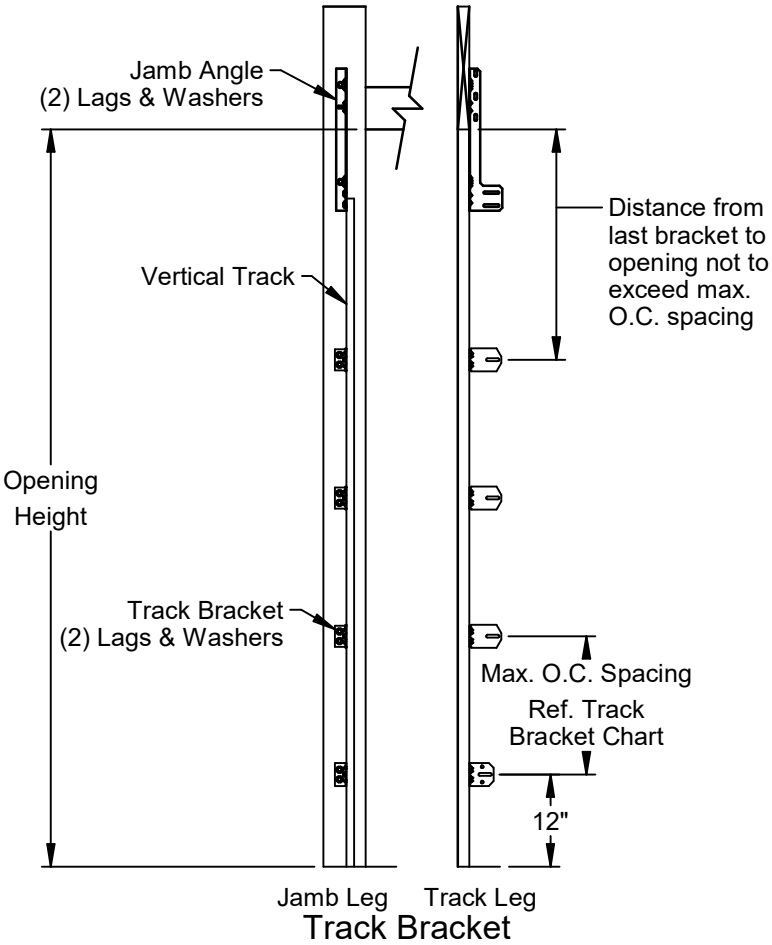


Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scott A. Brown
Digitally signed by Scott A Brown
Date: 2026.02.08 12:07:21-06'00'

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load SteelPro - SP24 / SP20		
Drawn by: Max Kozeal		No. P-2602		
Checked by: R. Frey				
Date: 02/20/25				
ECO: 9203.01			Sheet 2	Rev E



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

Digitally signed by Scott A Brown
Date: 2026.02.08 12:07:48-06'00'

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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: 02/20/25
ECO: 9203.01



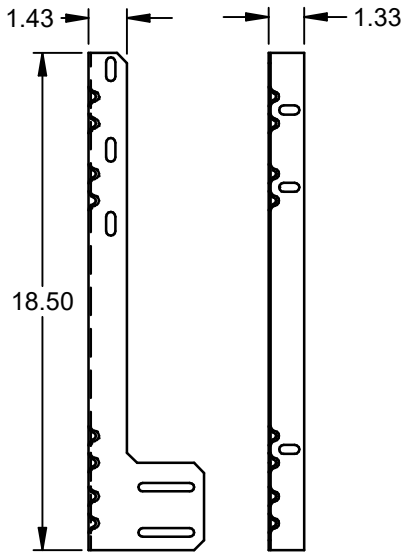
Title: Spec, Wind Load
SteelPro - SP24 / SP20

No. P-2602

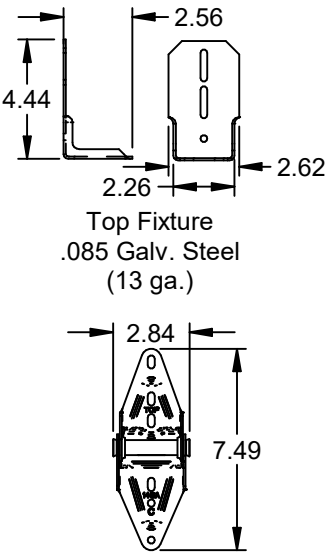
Sheet 3

Rev E

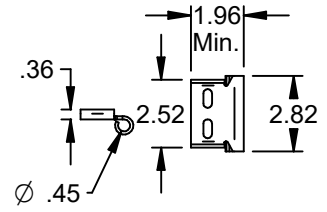
Installation Hardware



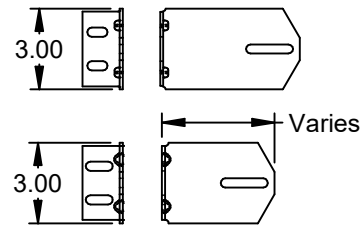
Jamb Angle
.078 Galv. Steel
(14 ga.)



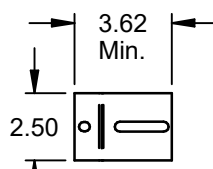
Top Fixture
.085 Galv. Steel
(13 ga.)



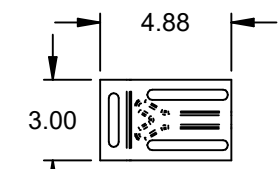
Roller Carrier
.114 Galv. Steel
(11 ga.)



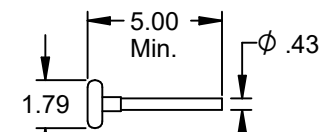
Track Bracket
.116 Galv. Steel
(11 ga.)



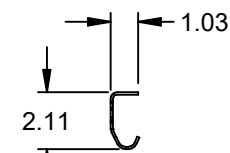
Track Clips (Opt.)
.09 Galv. Steel
(13 ga.)



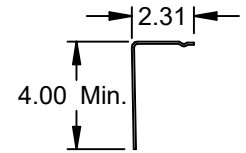
Track Splice Clips (Opt.)
.105 Galv. Steel
(12 ga.)



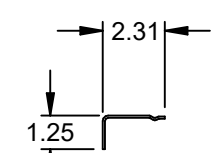
2" Roller
Nylon 10-ball (Std.)
Steel 10-ball (Opt.)



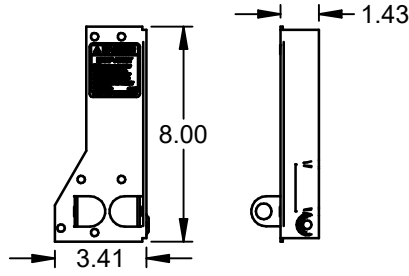
2" Track
.055 Galv. Steel
(16 ga.)



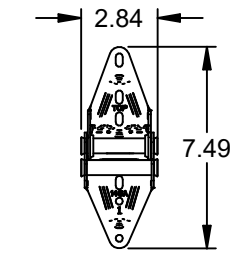
2" Angle Mount (Opt.)
.086 Galv. Steel
(13 ga.)



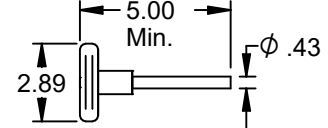
2" Clip Angle (Opt.)
.086 Galv. Steel
(13 ga.)



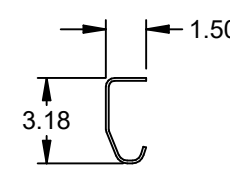
Corner Bracket
.086 Galv. Steel
(13 ga.)



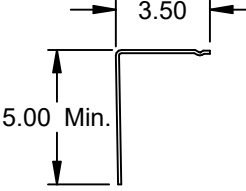
Edge Hinge
.069 min. Galv. Steel
(14 ga.)



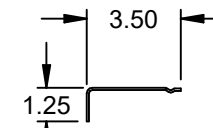
3" Roller
Steel 10-ball (Opt.)



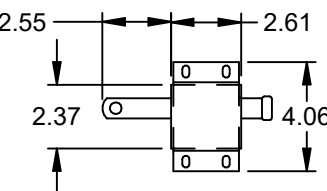
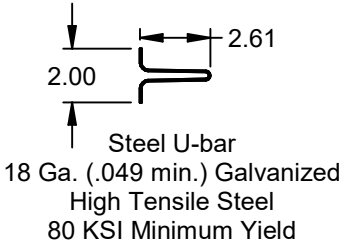
3" Track (Opt.)
.105 Galv. Steel
(12 ga.)



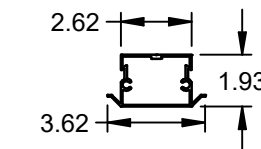
3" Angle Mount (Opt.)
.086 Min. Galv. Steel
(13 ga.)



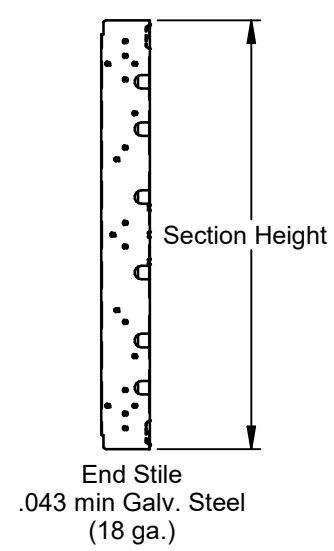
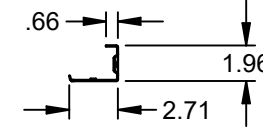
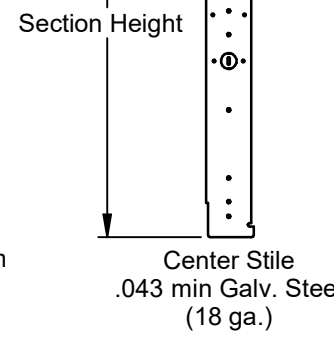
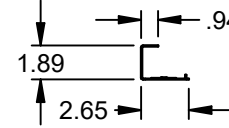
3" Clip Angle (Opt.)
.086 Galv. Steel
(13 ga.)



Slide Lock



Center Stile
.063 Extruded Aluminum



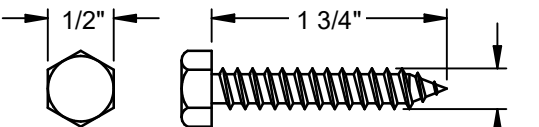
Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Digitally signed by Scott A Brown
Date: 2026.02.08 12:08:13-06'00'

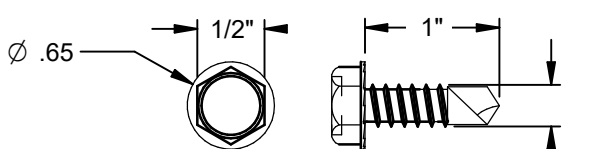
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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

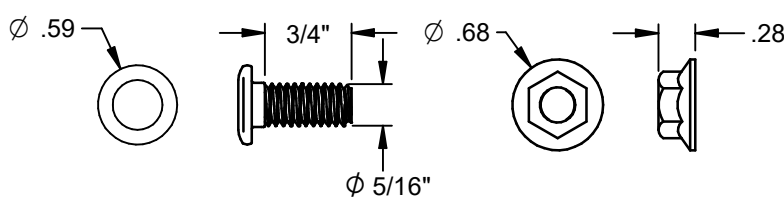
Fasteners & Small Hardware



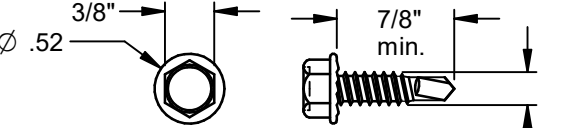
Hex Head Lag Screw
Wood jambs, all jamb attachments.
Install with supplied washer.



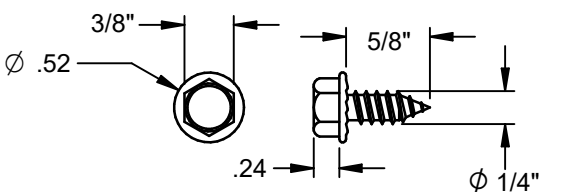
5/16" x 1" Self Drilling Screw
Angle mount & clip angle to steel jambs.
Install with supplied washer.



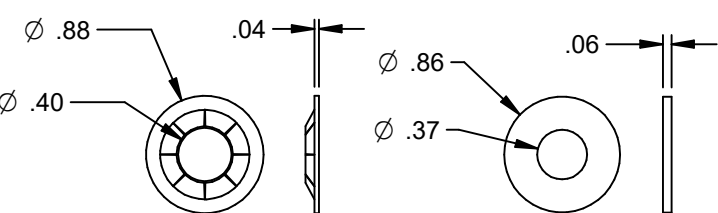
Track Bolt & Serrated Hex Flange Nut
Attach track to jamb attachment with track bolt and hex flange nut. (1) each required per punch.
(2) Track bolts and (2) nuts connect top fixture and roller carrier.



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



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



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
Drawn by: Max Kozeal
Checked by: R. Frey
Date: 02/20/25
ECO: 9203.01



Title: Spec, Wind Load SteelPro - SP24 / SP20		
No. P-2602	Sheet 4	Rev E