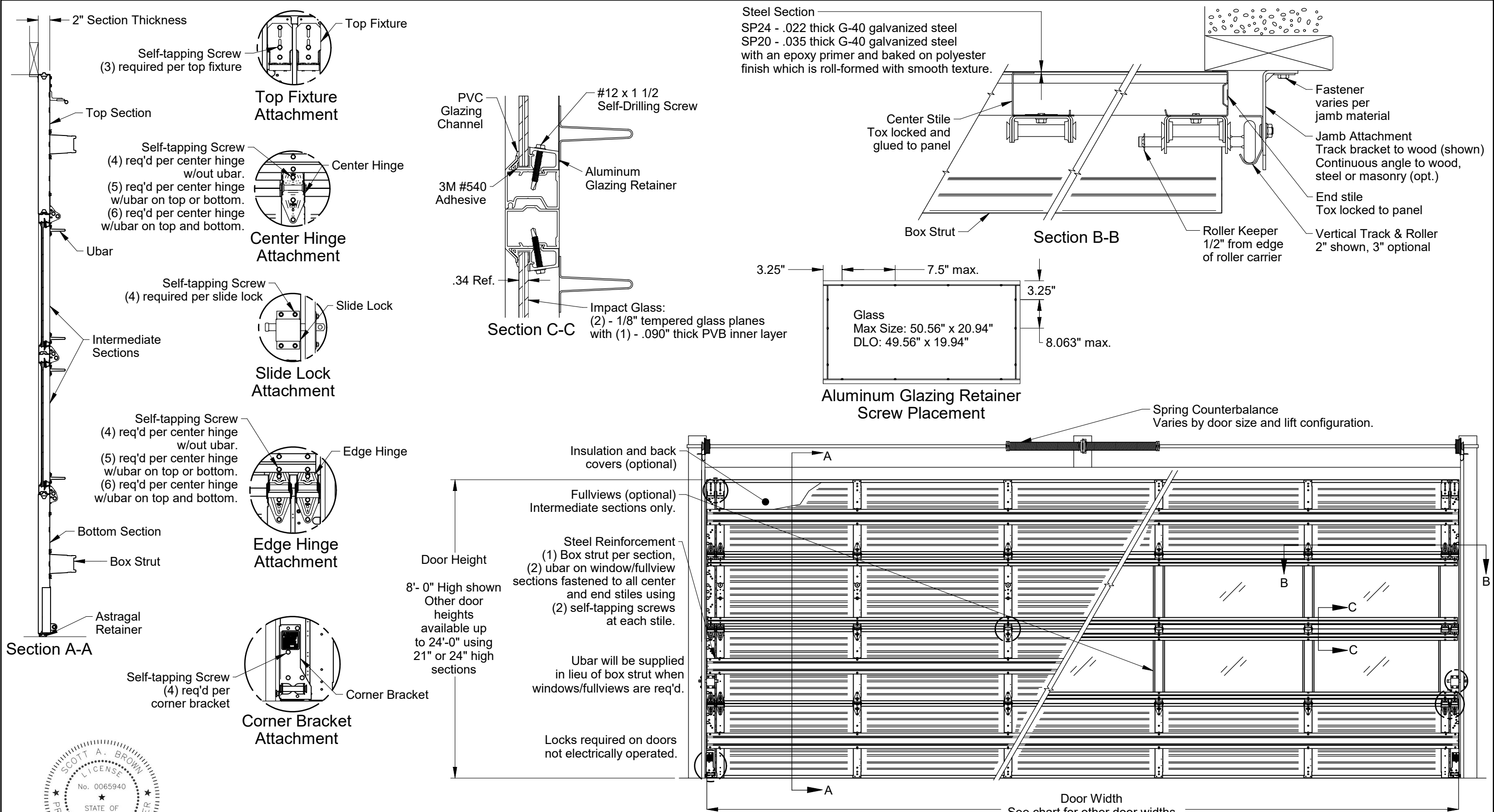


Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

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Date: 2025.10.13 16:46:38-05'00'

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Maximum Door Width	Hinge Rows	Panels	Design Loads		End Stiles
8'-2"	1	2	45.9	-51.9	Double (Std.)
9'-2"					
10'-2"					
12'-2"	2	3	41.1	-44.4	
14'-2"					
16'-2"	3	4	26.3	-29.3	
18'-2"					
20'-2"	4	5	19.3	-23.3	

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.

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	03/24/25
Rev.	Description	ECO	Date

Interior Elevation

Scale: None
Drawn by: Max Kozeal
Checked by: R. Frey
Date: 03/24/25
ECO: 9203.01



Title: Spec, Wind Load SteelPro - SP24 / SP20		
No. P-3337	Sheet 1 of 4	Rev C

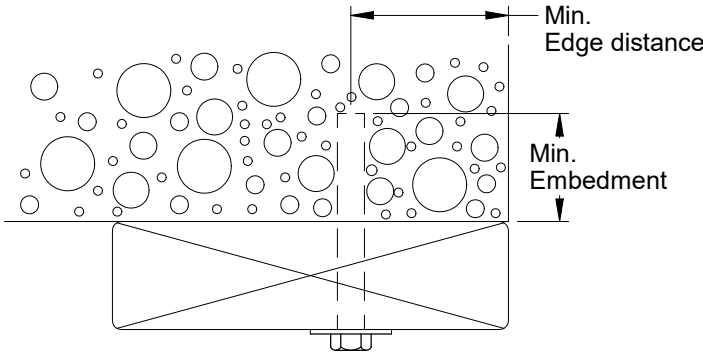
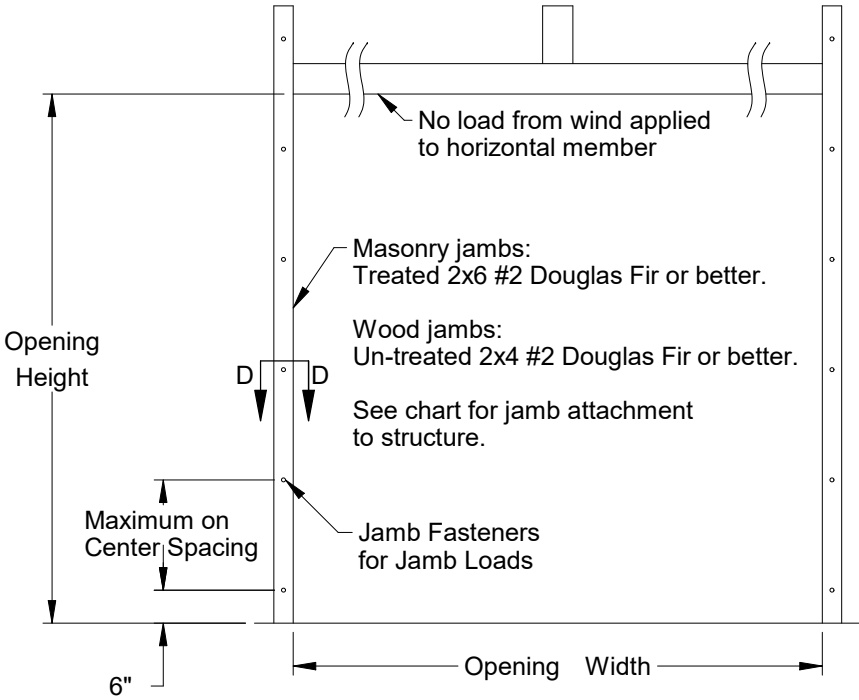
FL#47394

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.

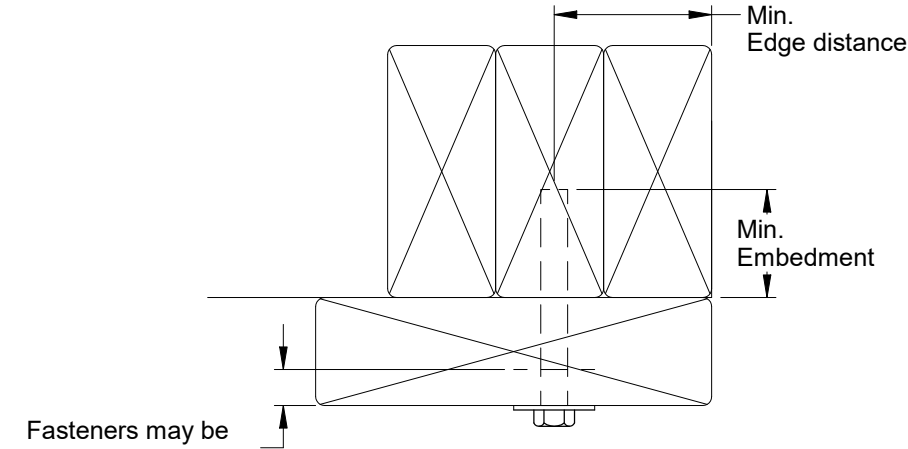
Max. Positive Jamb Load	
(12'-2" x 41.1 PSF) / 2 =	251 lbs. per foot

Max. Negative Jamb Load	
(12'-2" x -44.4 PSF) / 2 =	271 lbs. per foot

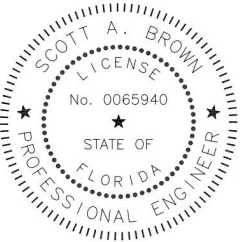
2x6 Attachment to Structure						
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5	6"	24"	526
Southern Pine	3/8" x 3" Lag with 1-1/8"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



Section D-D
2500 PSI Min. Concrete



Section D-D
Southern Pine or Spruce Pine Fir

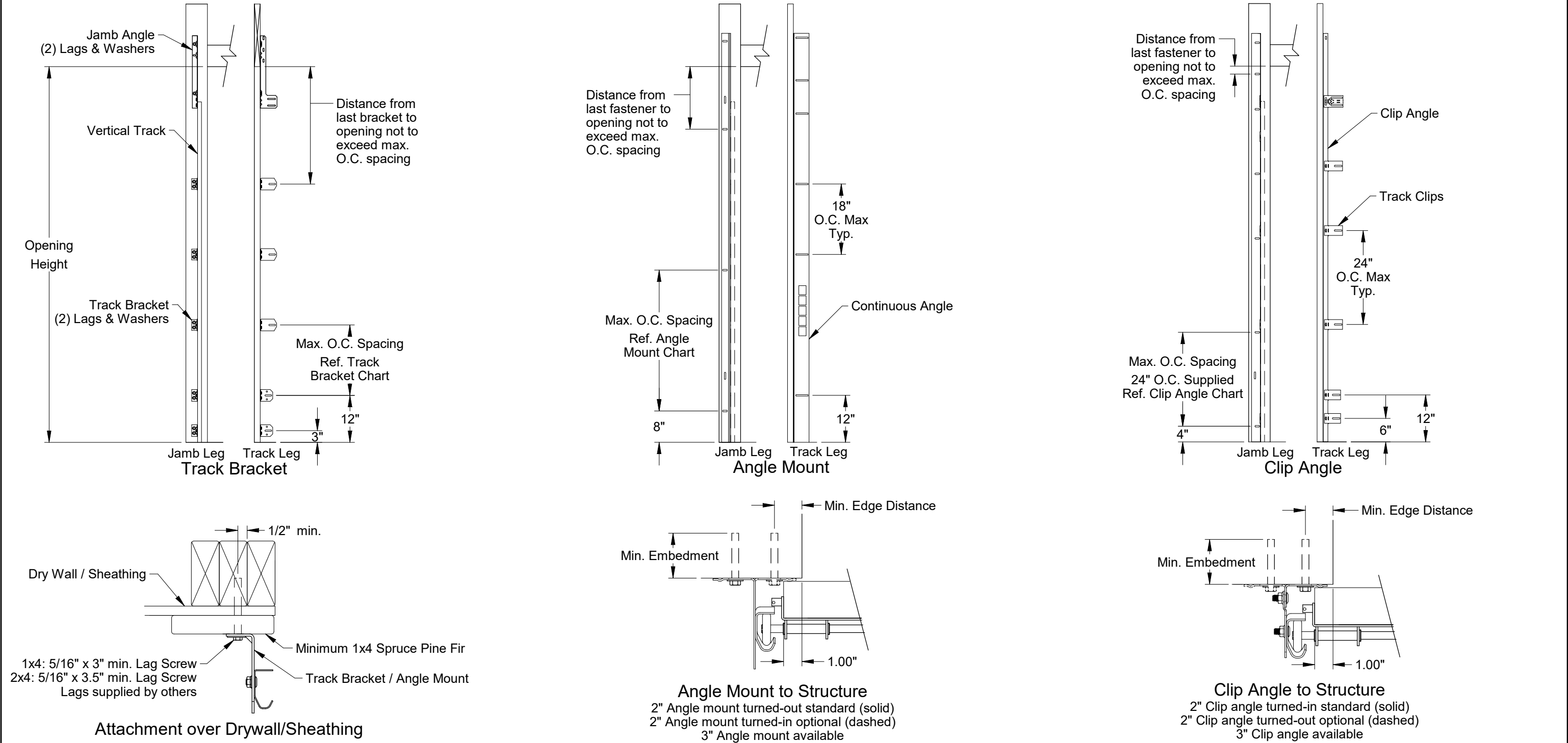


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Date: 2025.10.13 16:47:14-05'00'

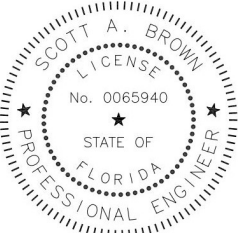
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Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load SteelPro - SP24 / SP20		
Drawn by: Max Kozeal		No. P-3337	Sheet 2	Rev C
Checked by: R. Frey				
Date: 03/24/25				
ECO: 9203.01				



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"	12"	*12"
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	480	N/A	18"	*12"

Alternate fasteners may be used if approved by a registered Professional Engineer.
*Field drilling req'd.



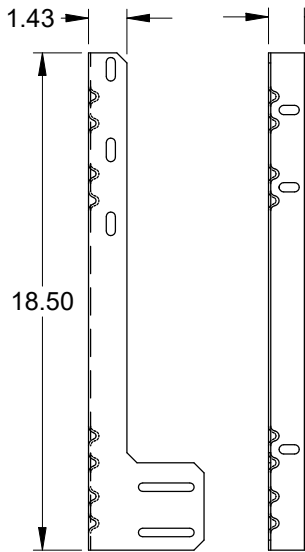
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Scott A. Brown Digitally signed by Scott A Brown
Date: 2025.10.13 16:47:41-05'00'

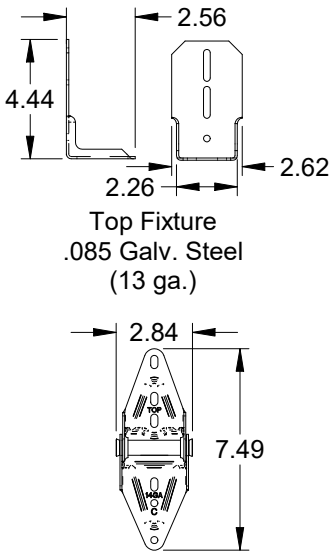
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Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load SteelPro - SP24 / SP20		
Drawn by: Max Kozeal		No. P-3337	Sheet 3	Rev C
Checked by: R. Frey				
Date: 03/24/25				
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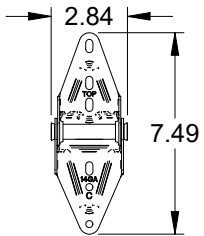
Installation Hardware



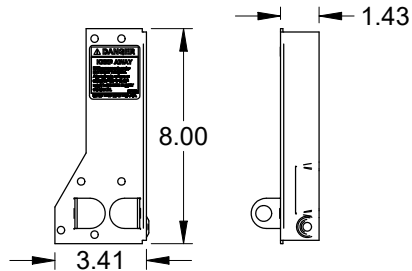
Jamb Angle
.078 Galv. Steel
(14 ga.)



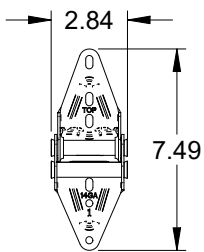
Top Fixture
.085 Galv. Steel
(13 ga.)



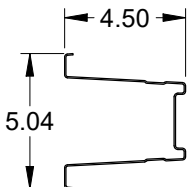
Center Hinge
.045 min. Galv. Steel
(18 ga.)



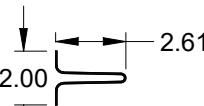
Corner Bracket
.086 Galv. Steel
(13 ga.)



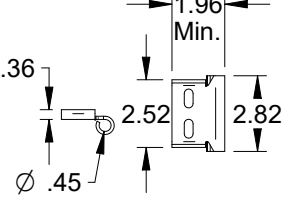
Edge Hinge
.069 min. Galv. Steel
(14 ga.)



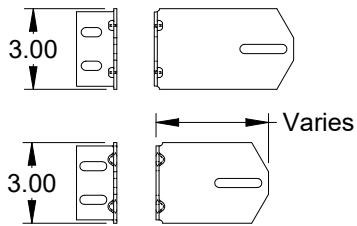
Steel Box Strut
20 Ga. (.035 min.) Galvanized
High Tensile Steel
80 KSI Minimum Yield



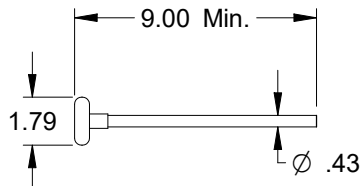
Steel U-bar
18 Ga. (.049 min.) Galvanized
High Tensile Steel
80 KSI Minimum Yield



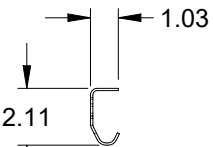
Roller Carrier
.114 Galv. Steel
(11 ga.)



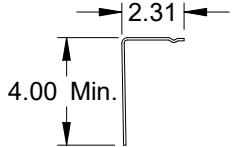
Track Bracket
.116 Galv. Steel
(11 ga.)



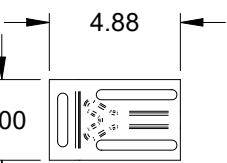
2" Roller
Nylon Precision
High Tensile Shaft



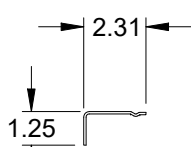
2" Track
.086 Galv. Steel
(13 ga.)



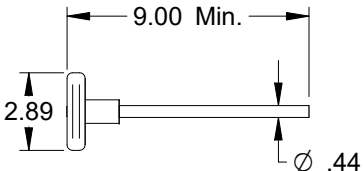
2" Angle Mount (Opt.)
.086 Galv. Steel
(13 ga.)



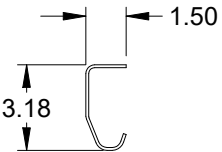
Track Splice Clips (Opt.)
.105 Galv. Steel
(12 ga.)



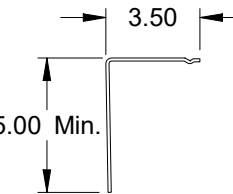
2" Clip Angle (Opt.)
.086 Galv. Steel
(13 ga.)



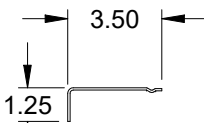
3" Roller
Steel Precision
High Tensile Shaft



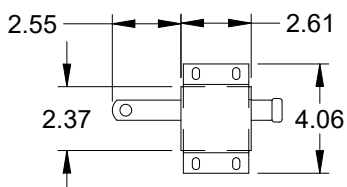
3" Track (Opt.)
.105 Galv. Steel
(12 ga.)



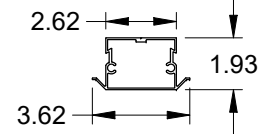
3" Angle Mount (Opt.)
.086 Min. Galv. Steel
(13 ga.)



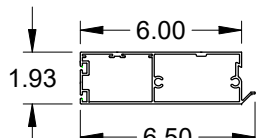
3" Clip Angle (Opt.)
.086 Galv. Steel
(13 ga.)



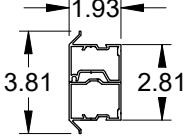
Slide Lock



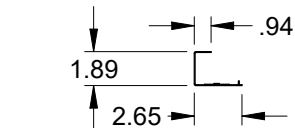
Center Stile
.063 Extruded Aluminum



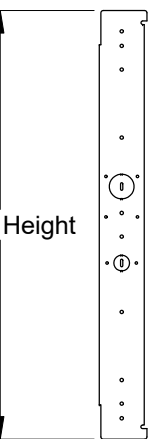
Double End Stile (Opt.)
.080 Extruded Aluminum



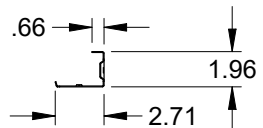
Meeting Rail
.075 Extruded Aluminum



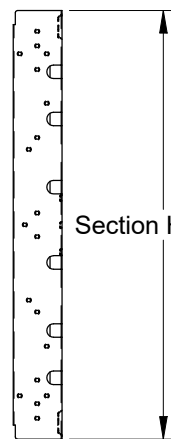
Section Height



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

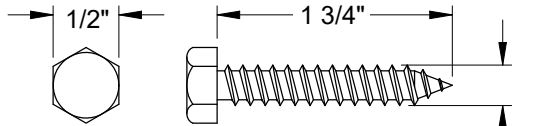


Section Height

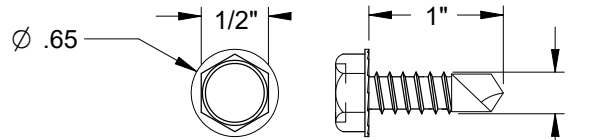


End Stile
.043 min Galv. Steel
(18 ga.)

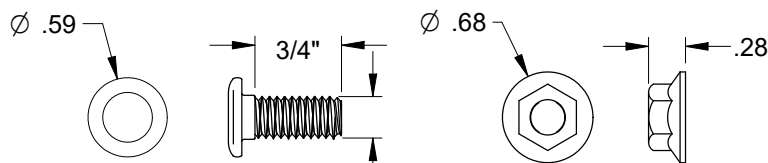
Fasteners & Small Hardware



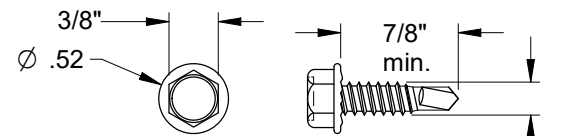
Hex Head Lag Screw
Wood jambs, all jamb attachments.
Install with supplied washer.



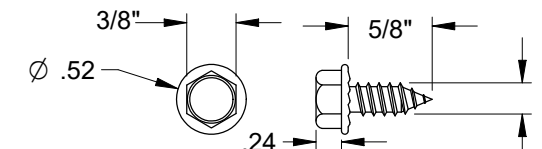
5/16" x 1" Self Drilling Screw
Angle mount & clip angle to steel jambs.
Install with supplied washer.



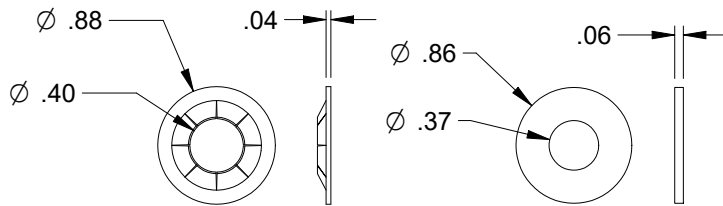
Track Bolt & Serrated Hex Flange Nut
Attach track to jamb attachment with track bolt and
hex flange nut. (1) each required per punch.
(2) Track bolts and (2) nuts connect top fixture and
roller carrier.



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

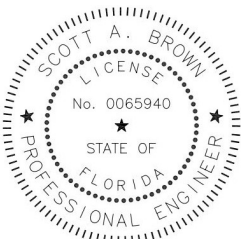


1/4" x 5/8" Self Tapping Screw
Attach hardware to sections.



Roller Keeper
(1) per roller.

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



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Date: 2025.10.13 16:48:06-05'00'

Scale: None
Drawn by: Max Kozeal
Checked by: R. Frey
Date: 03/24/25
ECO: 9203.01

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Title: Spec, Wind Load SteelPro - SP24 / SP20		
No. P-3337	Sheet 4	Rev C