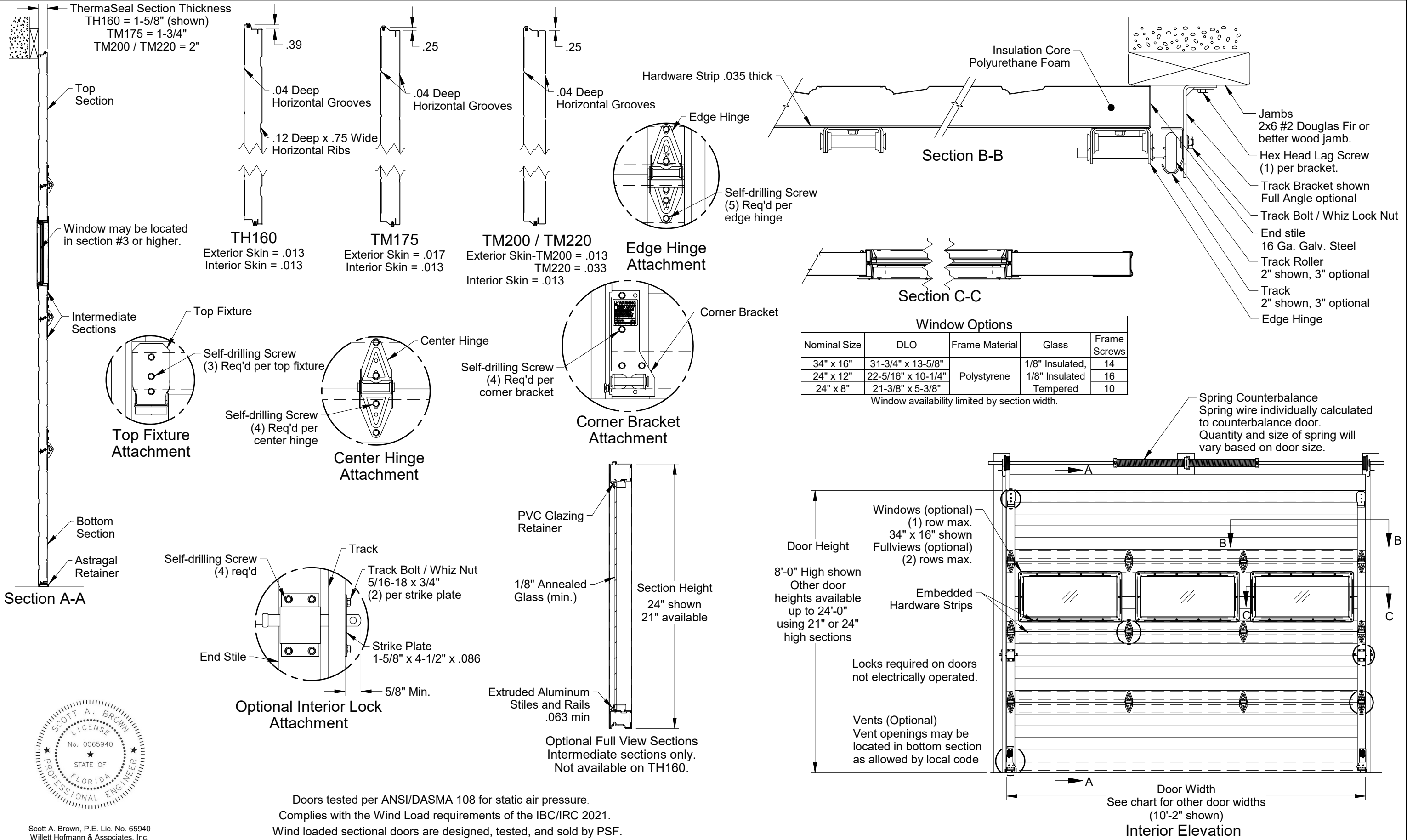




Scott A. Brown, P.E. Lic. No. 65940
Willett Hofmann & Associates, Inc.
809 E 2nd St, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

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Date: 2024.08.26 10:26:13-05'00'

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Doors tested per ANSI/DASMA 108 for static air pressure.
Complies with the Wind Load requirements of the IBC/IRC 2021.
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 Load		End Stiles
Up to 9' - 2"	1	2	+19.9	-22.5	Single
10' - 2"	2	3	+12.9	-14.6	
12' - 2"					

F	Added full view option and 12'-2" door width on sht. 1.	9097.01	08/14/24
E	Concrete and CMU lap requirement was 2.00 on clip angle.	8517.02	09/10/21
D	Added pre-assembled track, 34 x 16 windows, TM220 and updated format.	8517.01	02/18/21
Rev.	Description	ECO	Date

Scale: None
Drawn by: G. Wedekind
Checked by: G. Wedekind
Date: 02/15/13
ECO: 6530.01



1101 East River Road
Dixon, IL. 61021

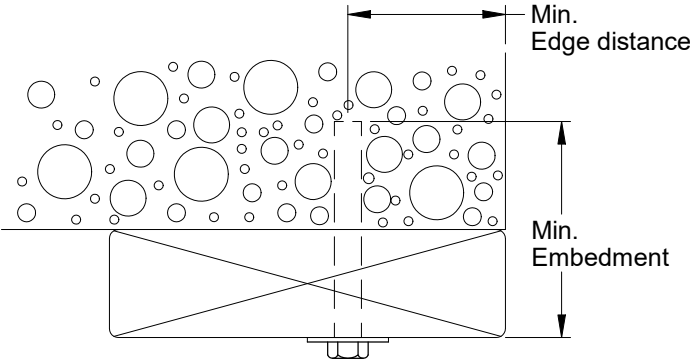
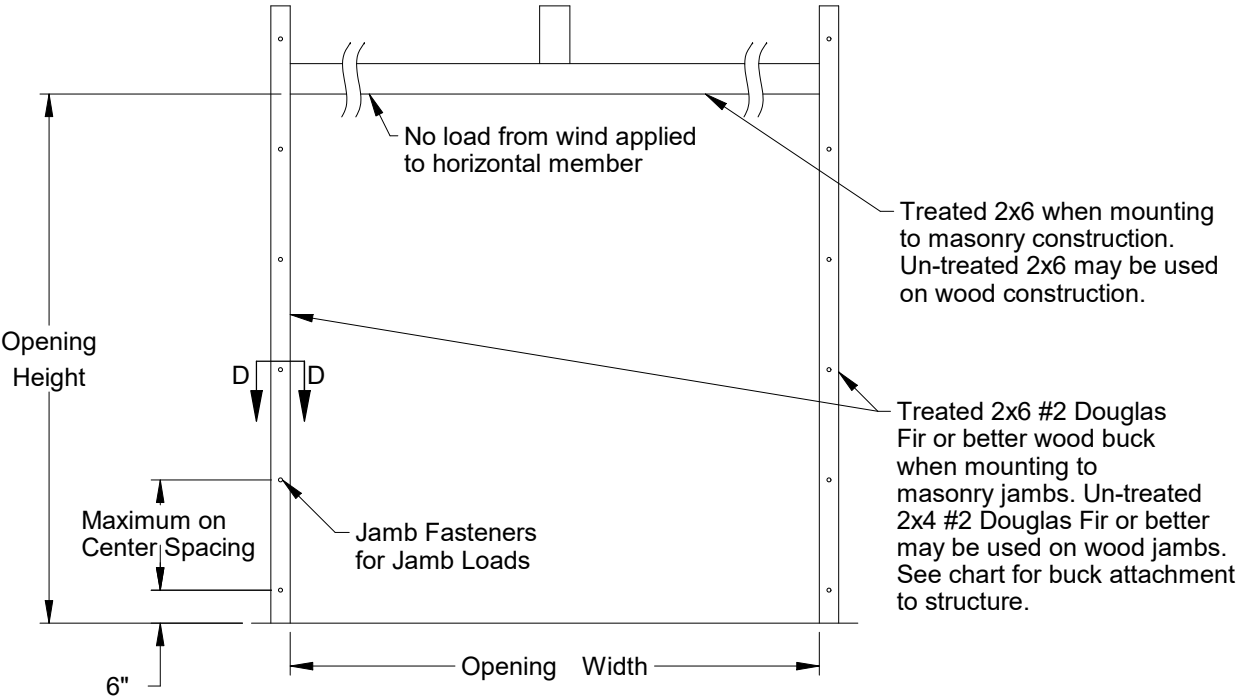
Title: Spec, Wind Load TH160, TM175, TM200, TM220			
No.	P-2421	Sheet 1 of 4	Rev F

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 clading.

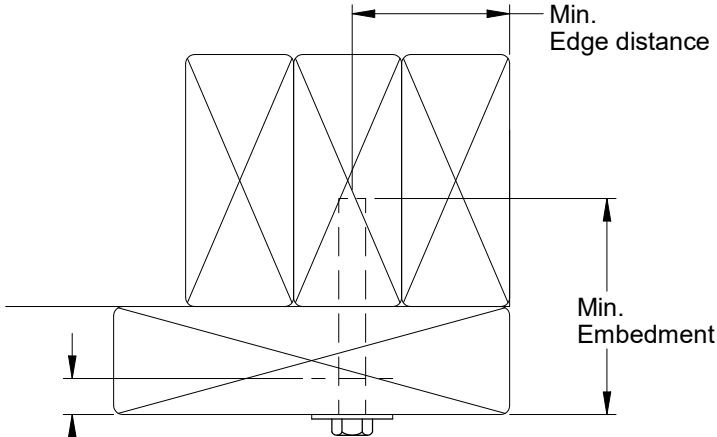
Max. Positive Jamb Load	
(10'-2" x 19.9 PSF) / 2 =	102 lbs. per foot

Max. Negative Jamb Load	
(10'-2" x -22.5 PSF) / 2 =	115 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

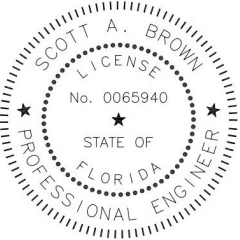


Section D-D
2500 PSI Min. Concrete



Fasteners may be countersunk up to 1/2"

Section D-D
Southern Pine or
Spruce Pine Fir



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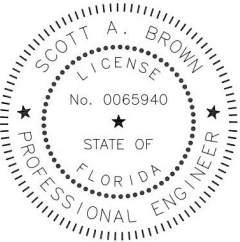
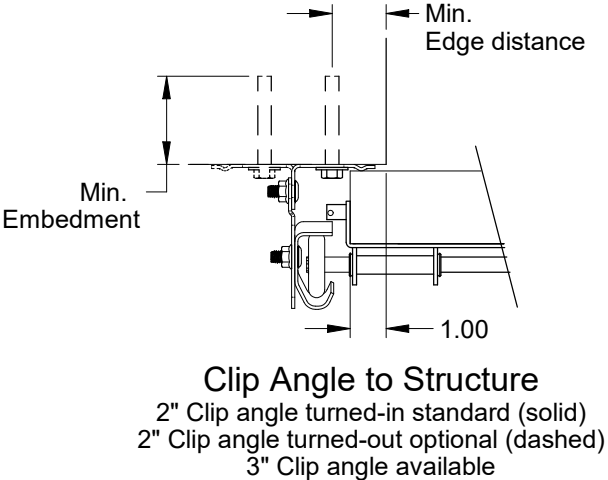
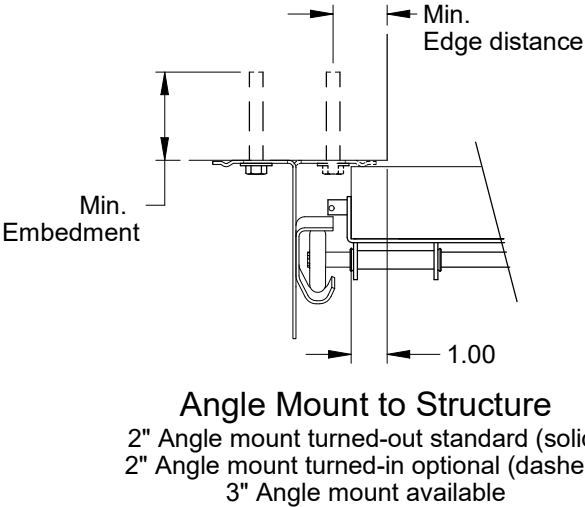
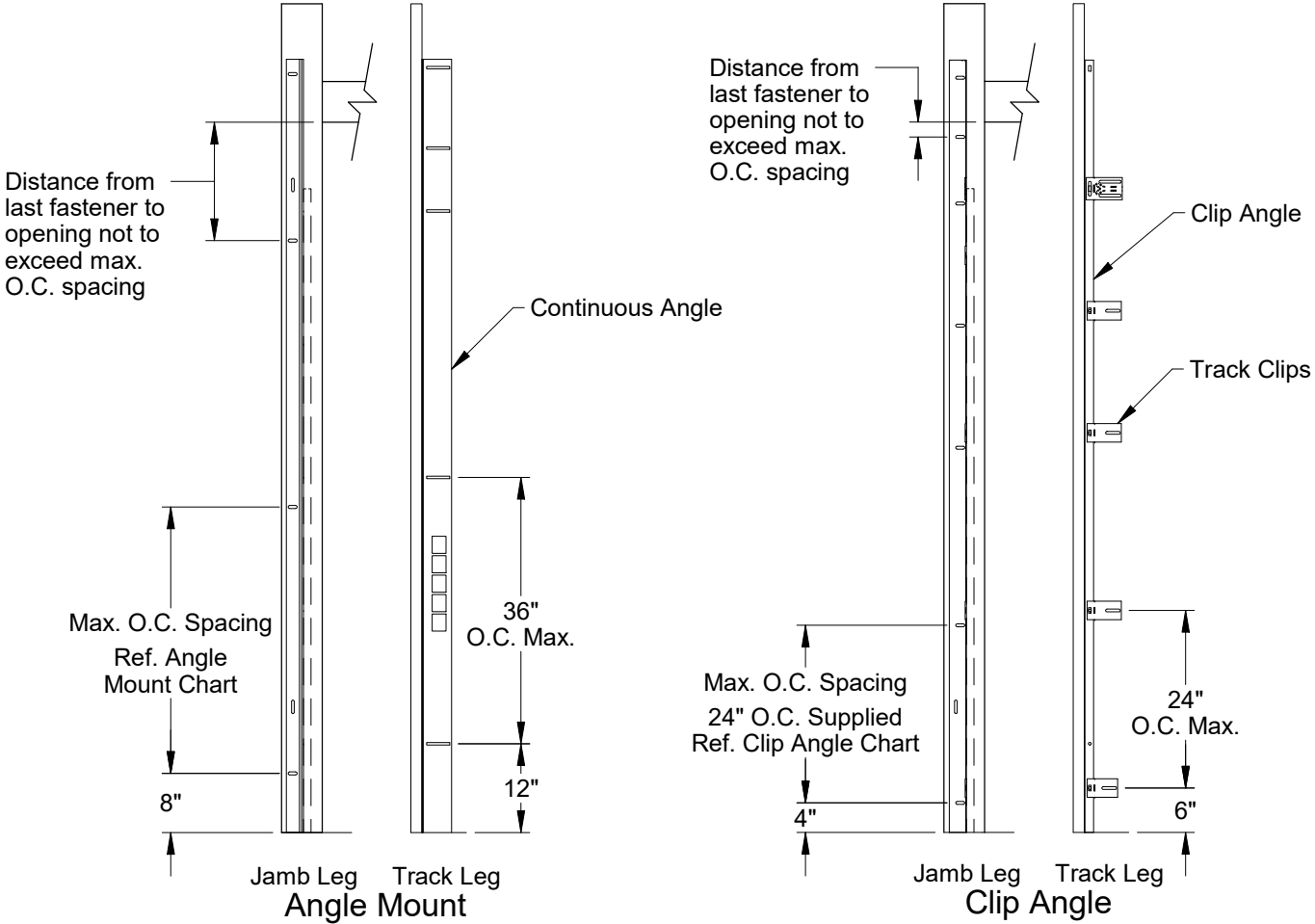
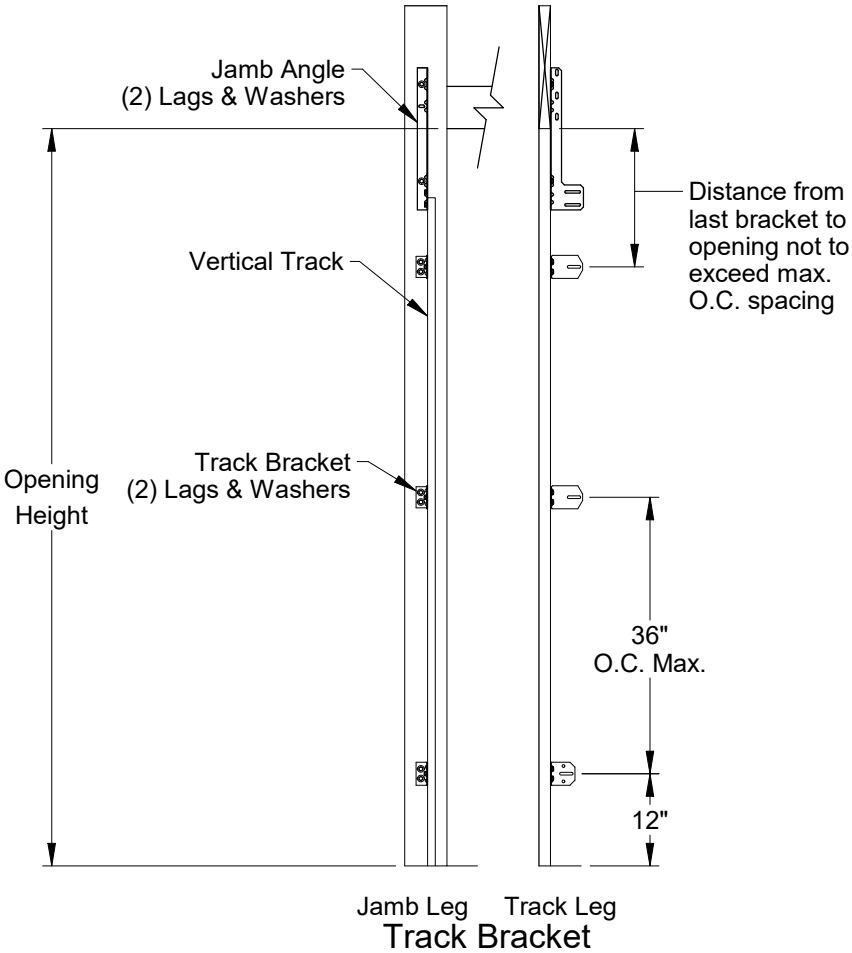
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Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load TH160, TM175, TM200, TM220	
Drawn by: G. Wedekind		No. P-2421	Sheet 2
Checked by: G. Wedekind			
Date: 02/15/13			
ECO: 6530.01			Rev F

					Angle Mount	Clip Angle
Jamb Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Allowable Tension Load (lbs.)	Max. on Center Spacing	Max. on Center Spacing
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	893	36"	24"
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	687	36"	24"
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	651	36"	24"
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16"	3/16"	1-1/2"	971	36"	24"
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	352	36"	24"
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	480	36"	24"

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



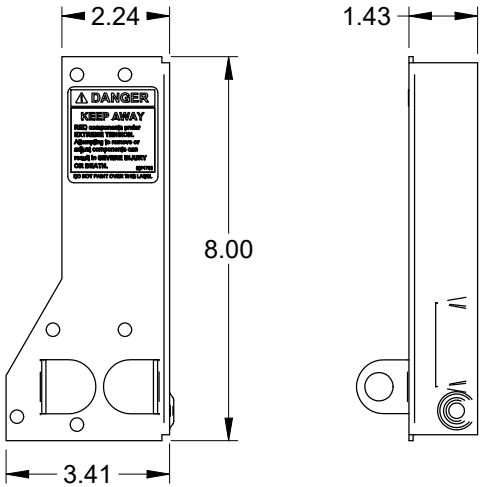
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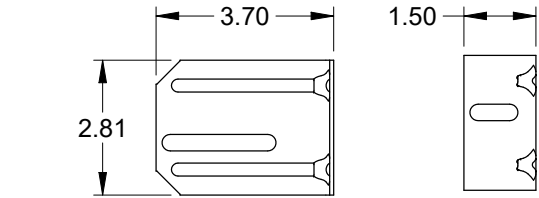
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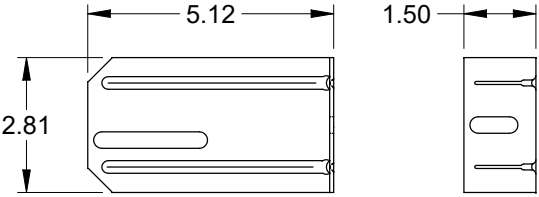
Scale: None	 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load TH160, TM175, TM200, TM220		
Drawn by: G. Wedekind		No. P-2421	Sheet 3	Rev F
Checked by: G. Wedekind				
Date: 02/15/13				
ECO: 6530.01				



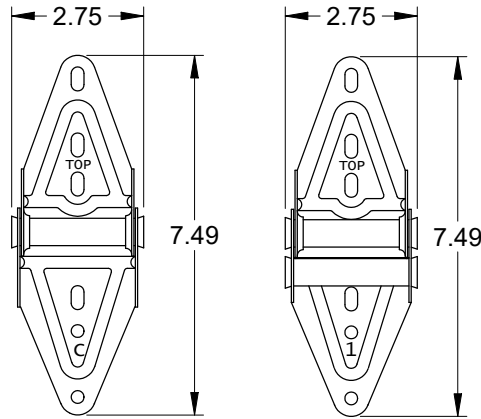
Corner Bracket
.086 Galv. Steel



4" Track Bracket
.086 Galv. Steel

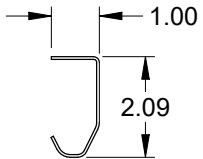


5" Track Bracket
.086 Galv. Steel

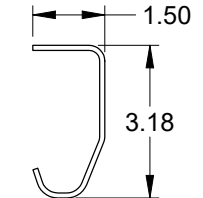


Center Hinge
.045 Galv. Steel

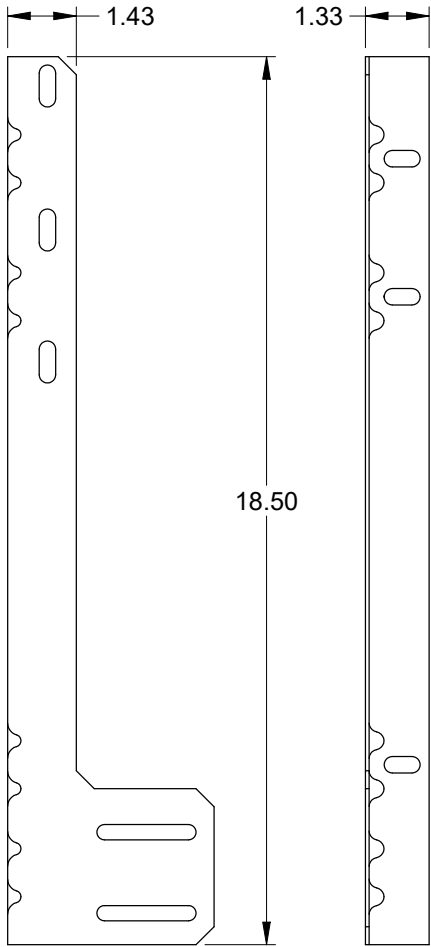
Edge Hinge
.086 Galv. Steel



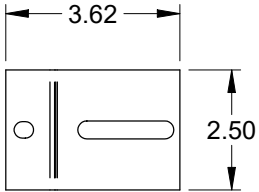
2" Track
.055 Galv. Steel



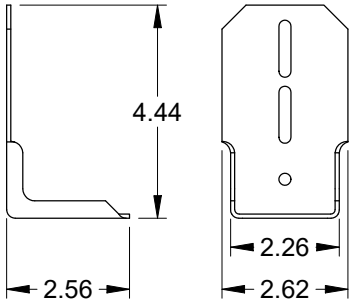
3" Track (Optional)
.105 Galv. Steel



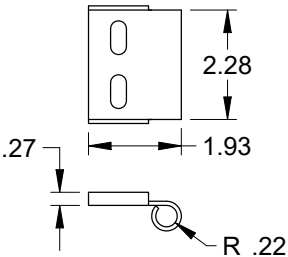
Jamb Angle
.078 Galv. Steel



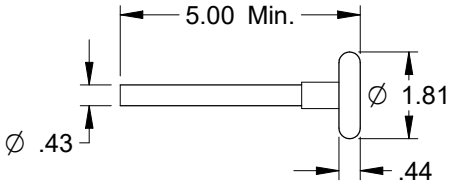
Track Clip (Opt.)
.09 Galv. Steel



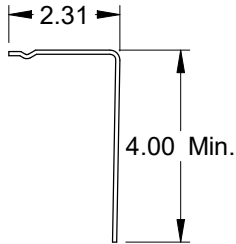
Top Fixture
.085 Galv. Steel



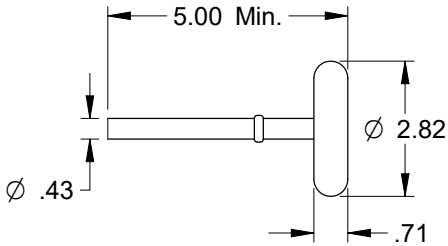
Roller Carrier
.085 Galv. Steel
Attached to Top Fixture
w/(2) Track Bolts and Whiz Nuts



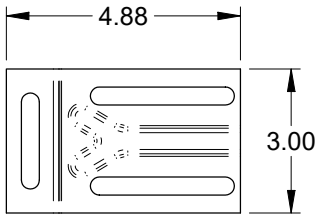
2" Roller
Nylon 11-ball (Std.)
Steel 10-ball (Opt.)



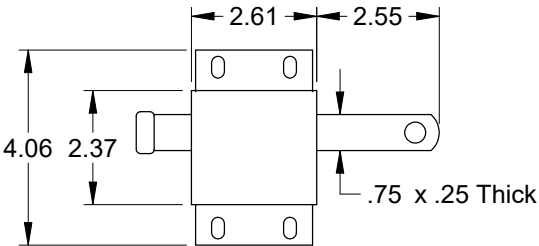
2" Angle Mount (Opt.)
.086 Galv. Steel



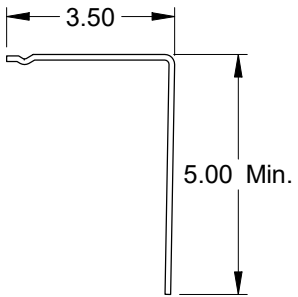
3" Roller
Steel 10-ball (Opt.)



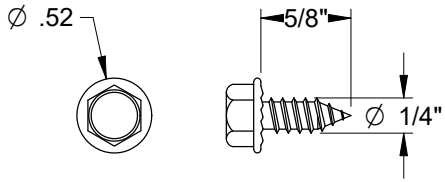
Track Splice Clip (Opt.)
.105 Galv. Steel



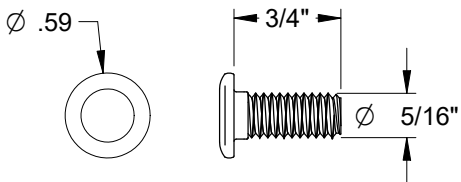
Slide Lock
Case .086 Galv. Steel



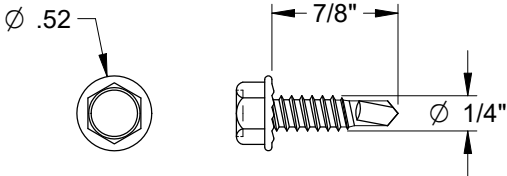
3" Angle Mount (Opt.)
.086 Min. Galv. Steel



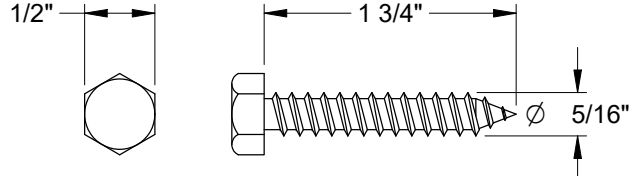
Sheet Metal Screw



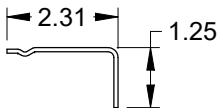
Track Bolt



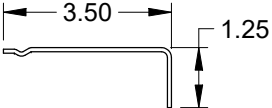
Self-Drilling Screw



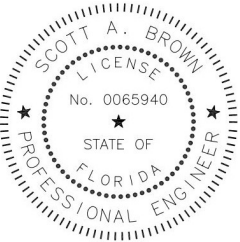
Hex Head Lag Screw



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



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



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

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Checked by: G. Wedekind			
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