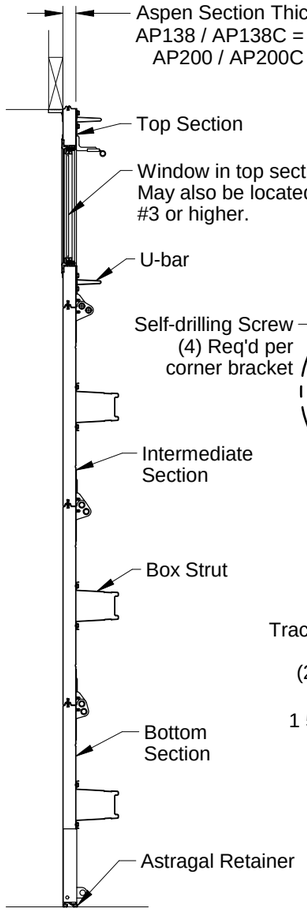
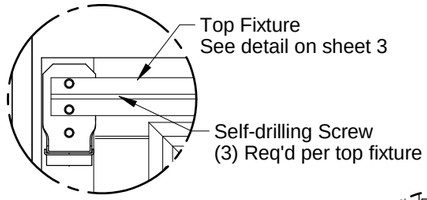
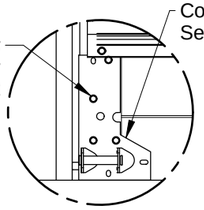


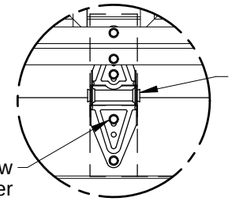
Section A-A



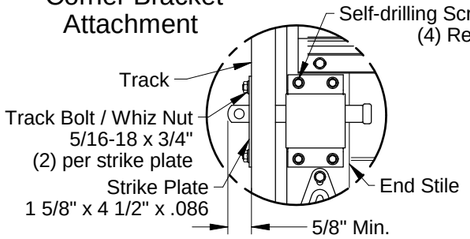
Top Fixture Attachment



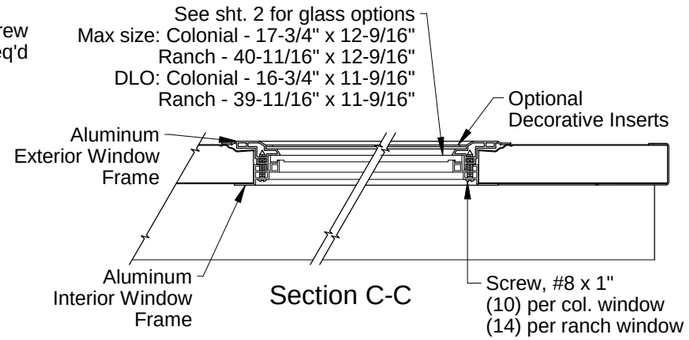
Corner Bracket Attachment



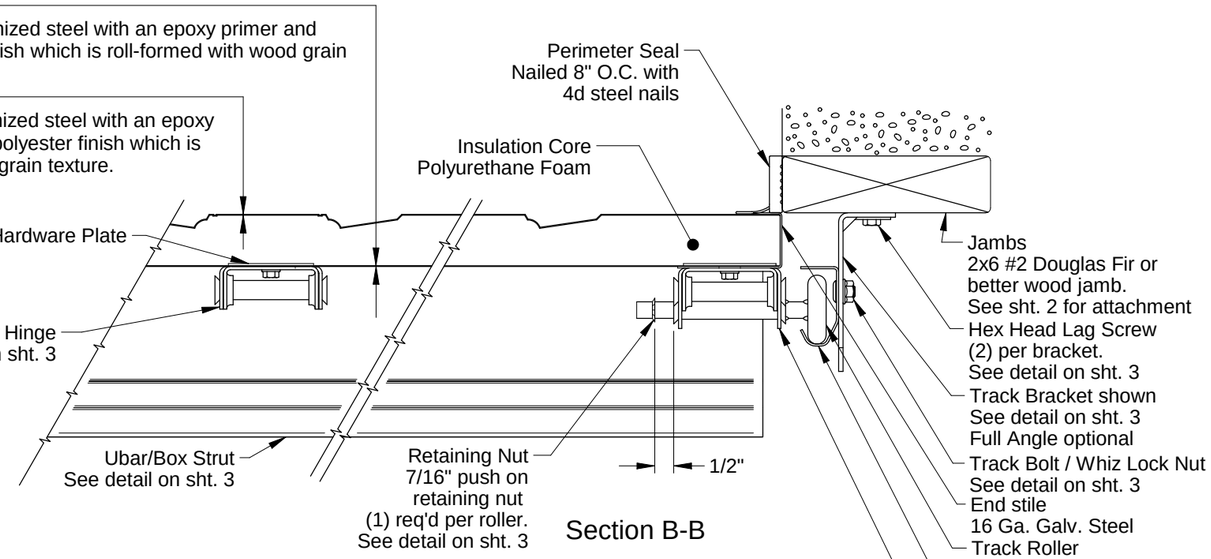
Center Hinge Attachment



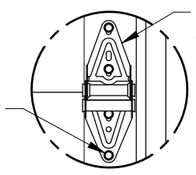
Optional Interior Lock Attachment



Section C-C



Section B-B



Edge Hinge Attachment

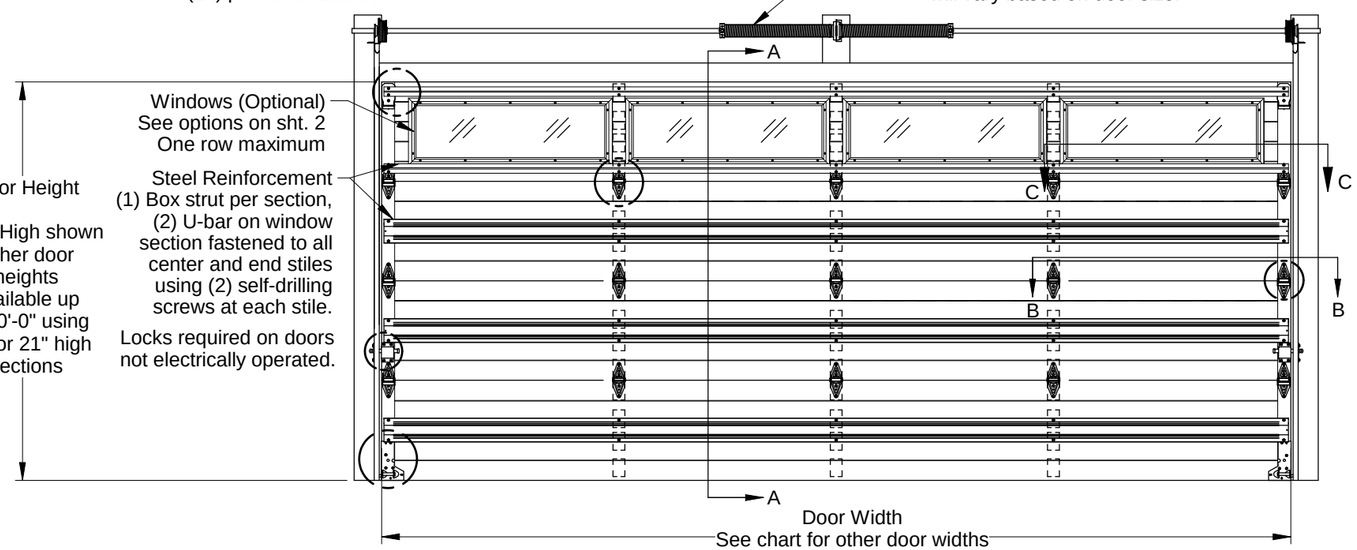
Doors tested per
ANSI/DASMA 108
for static air pressure
and
ANSI/DASMA 115
for large missile impact and
cyclic wind pressure

AP138 / AP138C

Max. Door Width	Colonial			Ranch			Carriage House		
	Hinges per Section	Design Loads		Hinges per Section	Design Loads		Hinges per Section	Design Loads	
8'-0"	1	55.0	-62.0	1	55.0	-62.0	1	55.0	-62.0
9'-0"	1	55.0	-62.0	1	55.0	-62.0	1	55.0	-62.0
10'-0"	2	39.1	-43.5	1	39.1	-43.5	1	39.1	-43.5
12'-0"	2	39.1	-43.5	2	39.1	-43.5	2	39.1	-43.5
14'-0"	4	29.7	-33.1	2	29.7	-33.1	2	29.7	-33.1
16'-0"	3	29.7	-33.1	3	29.7	-33.1	3	29.7	-33.1

AP200 / AP200C

Max. Door Width	Colonial			Ranch			Carriage House		
	Hinges per Section	Design Loads		Hinges per Section	Design Loads		Hinges per Section	Design Loads	
8'-0"	1	60.0	-65.0	1	60.0	-65.0	1	60.0	-65.0
9'-0"	1	60.0	-65.0	1	60.0	-65.0	1	60.0	-65.0
10'-0"	2	42.8	-47.6	1	42.8	-47.6	1	42.8	-47.6
12'-0"	2	42.8	-47.6	2	42.8	-47.6	2	42.8	-47.6
14'-0"	4	32.5	-35.9	2	32.5	-35.9	2	32.5	-35.9
16'-0"	3	32.5	-35.9	3	32.5	-35.9	3	32.5	-35.9



Interior Elevation

John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

STATE OF TEXAS
JOHN E. SCATES
56308
LICENSED
PROFESSIONAL ENGINEER

Digitally signed by John E. Scates P.E.
Date: 2020.03.31 08:46:11 -05'00'

Professional Engineer's seal provided only for verification of wind load construction details

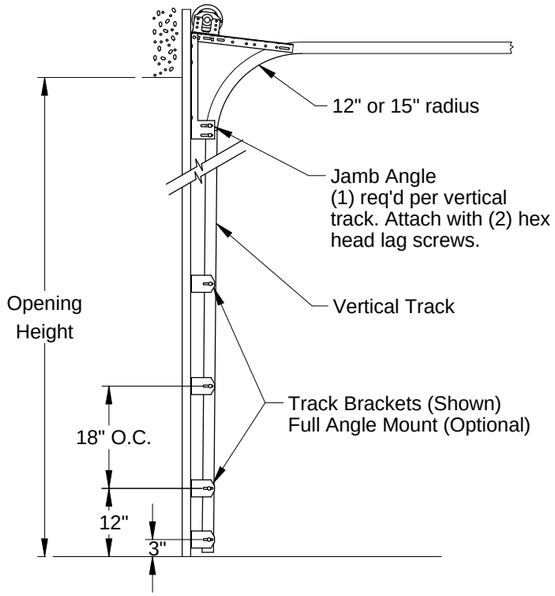
Rev.	Description	ECO	Date
B	Removed vent option on sheet 1.	7679.04	12/09/19
A	New release for production.	7679.01	02/07/19

Scale: None
Drawn by: R. Frey
Checked by: G. Wedekind
Date: 02/07/19
ECO: 7679.01

RAYNOR
1101 East River Road
Dixon, IL. 61021

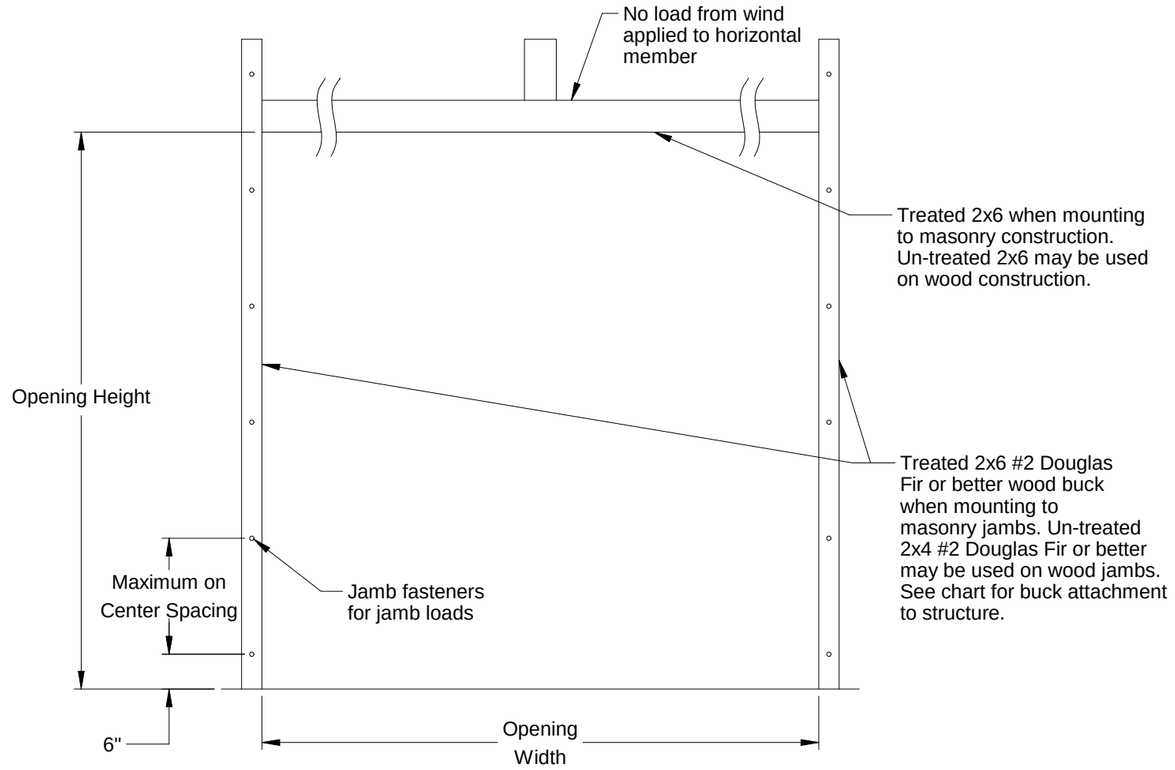
Title: Spec, Wind Load
Aspen Series

No. P-2900 | Sheet 1 of 3 | Rev B



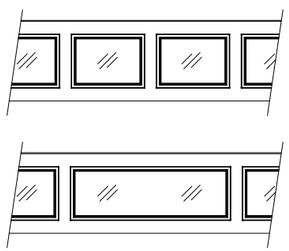
Typical Track Installation

Normal headroom track shown, low headroom, lift clearance and verical lift track available



Jamb Attachment Notes:

1. Maximum Positive Load per Jamb = (9'-0" x 60.0 PSF) / 2 = 270 lbs. per foot.
2. Maximum Negative Load per Jamb = (9'-0" x -65.0 PSF) / 2 = 293 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 1/16" pilot hole and 1-1/2" minimum required distance.



Colonial windows:
1/4" Polycarbonate

Ranch windows:
1/4" Polycarbonate

Window Options

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"	23"	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"	21"	482

John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

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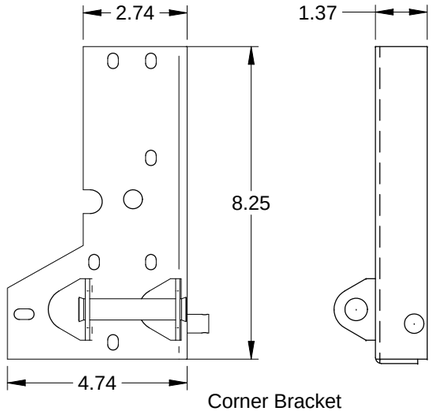
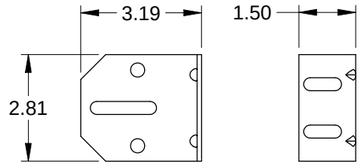
Scale: None	RAYNOR	Title: Spec, Wind Load Aspen Series	
Drawn by: R. Frey			
Checked by: G. Wedekind			
Date: 02/07/19	1101 East River Road Dixon, IL. 61021	No. P-2900	Sheet 2 / Rev B
ECO: 7679.01			

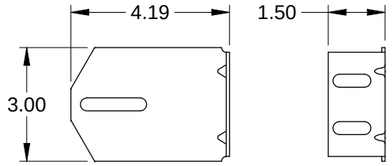
P-2900-B



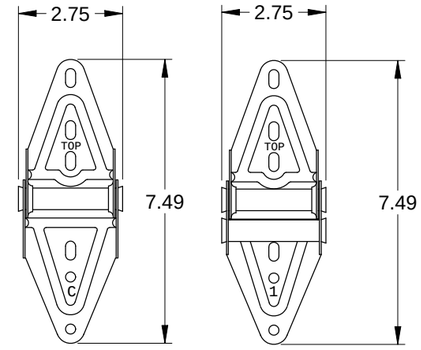
Corner Bracket
.116 Galv. Steel



3" Track Bracket
.116 Galv. Steel

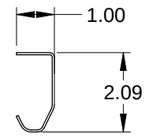


4" Track Bracket
.116 Galv. Steel

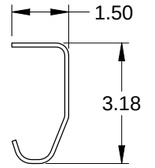


Center Hinge
.045 Galv. Steel

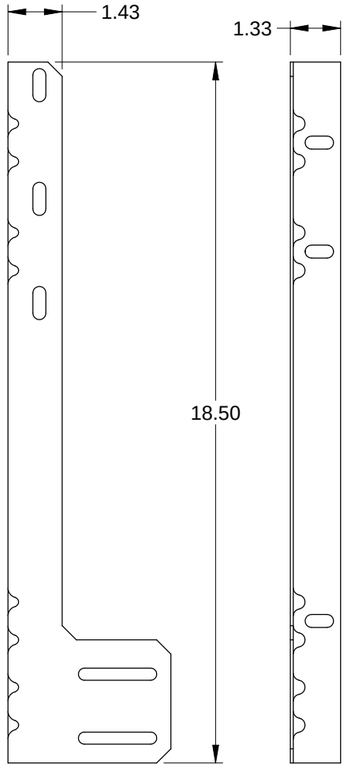
Edge Hinge
.086 Galv. Steel



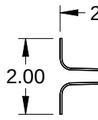
2" Track
.055 Galv. Steel



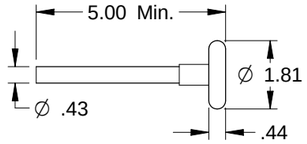
3" Track (Optional)
.105 Galv. Steel



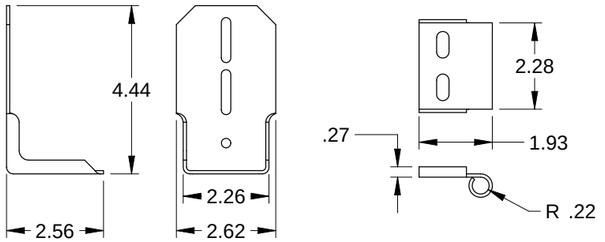
Jamb Angle
.078 Galv. Steel



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

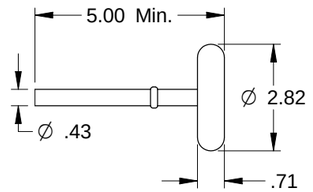


2" Roller
Nylon 11-ball (Std.)
Steel 10-ball (Opt.)

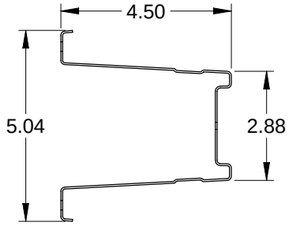


Top Fixture
.086 Galv. Steel

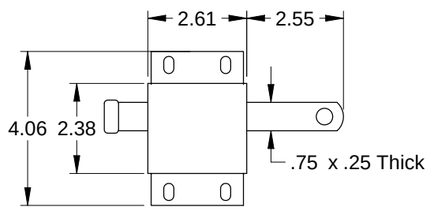
Roller Carrier
.116 Galv. Steel
Attached to Top Fixture
w/(2) Track Bolts and Whiz Nuts



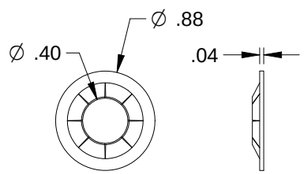
3" Roller
Steel 10-ball (Opt.)



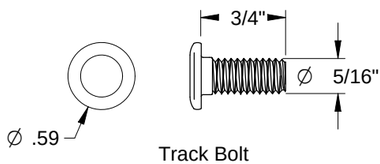
Steel Box Strut
20 Ga. (.035" min.) Galvanized
High Tensile Steel
80 KSI Minimum Yield



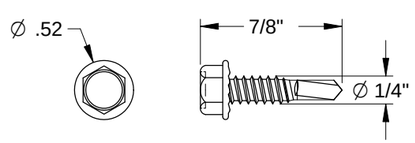
Slide Lock
Case .086 Galv. Steel



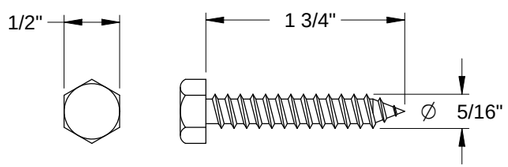
Retaining Nut



Track Bolt



Self-Drilling Screw



Hex Head Lag Screw

John E. Scates
2560 King Arthur Blvd, Ste 124-54
Lewisville, TX 75056
FL PE #51737
TX PE #56308-f2203

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Scale: None	RAYNOR 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Aspen Series	
Drawn by: R. Frey			
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Date: 02/07/19		No. P-2900	Sheet 3 / Rev B
ECO: 7679.01			