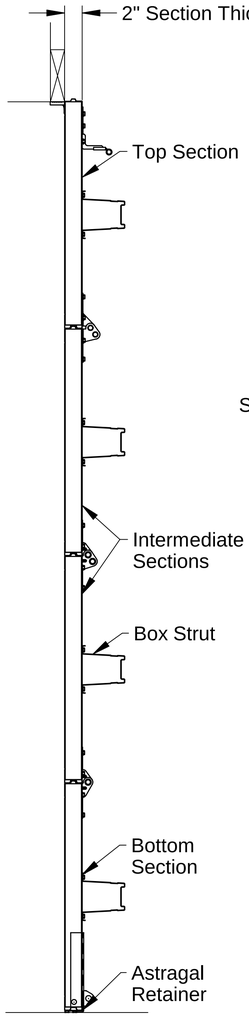
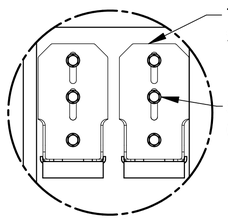
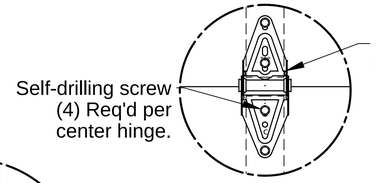
P-3350



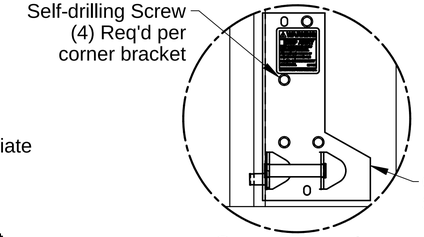
Section A-A



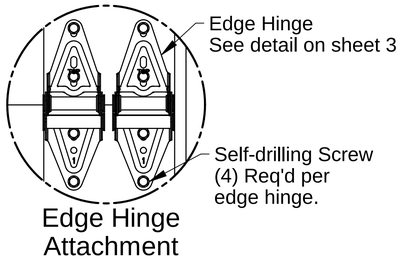
Top Fixture Attachment



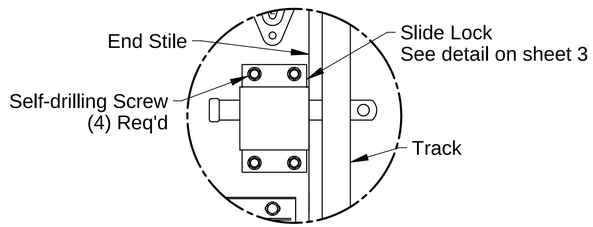
Center Hinge Attachment



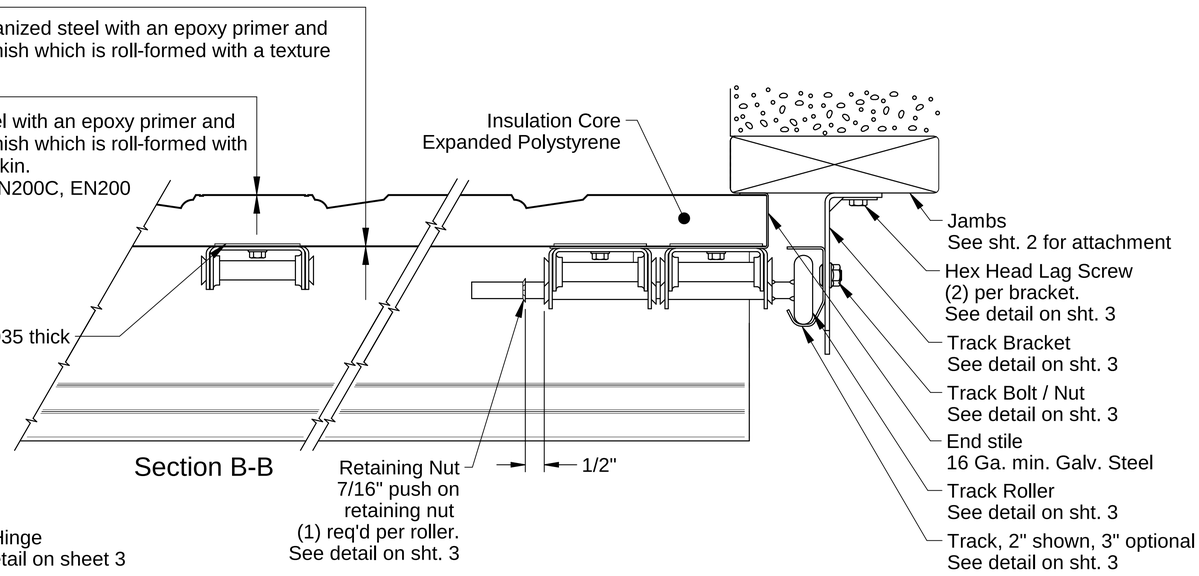
Corner Bracket Attachment



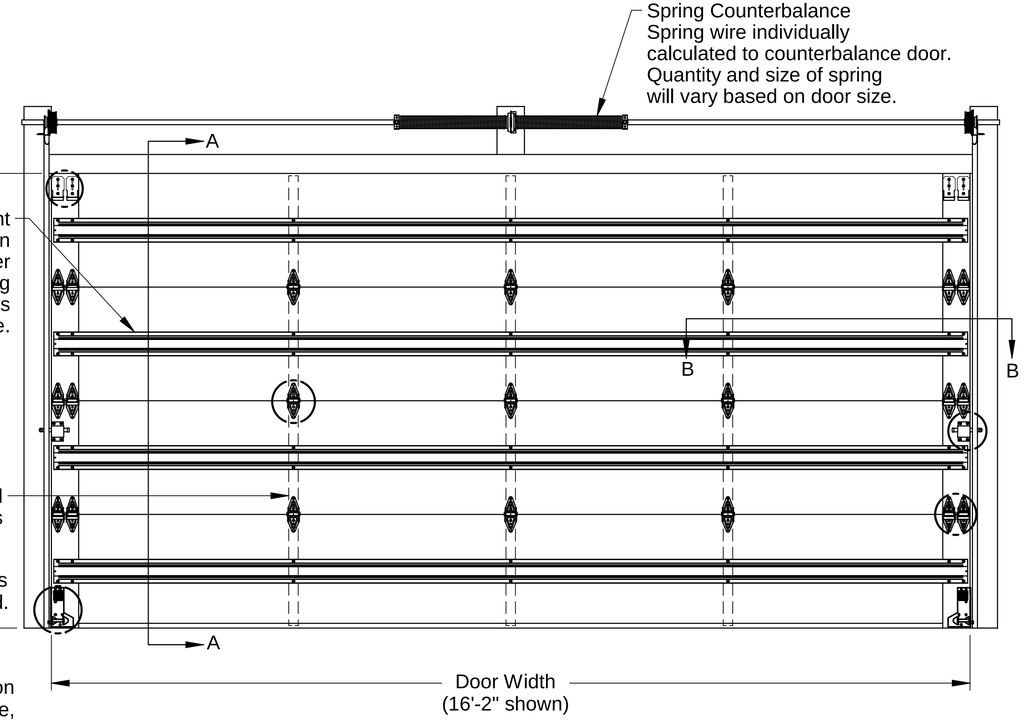
Edge Hinge Attachment



Optional Interior Lock Attachment



Section B-B



8'- 0" High shown
Other door heights available up to
10'-0" - EN200
or
18'-0" - EN200C, EC200, EC224
using 18", 21" or 24"
high sections

Locks required on doors not electrically operated.

Vents (Optional)
Vent openings may be located in bottom section as allowed by local code, 120 sq. in max.

Interior Elevation

Doors tested per:
TAS 202-94 for static air pressure
TAS 201-94/203-94 for large missile impact and cyclic wind pressure

Complies with the Wind Load requirements of the IBC/IRC 2018

EN200 / EN200C / EC200 / EC224			
Max. Door Width	Ctr. Hngs. per Sect.	Design Loads	
16'-2"	3	45.0	-52.0
18'-2"	3	40.0	-46.0

Wind loaded sectional doors are designed, tested, and sold by PSF.
The AHJ of a given jobsite is responsible for determining the appropriate PSF.

SCOTT A. BROWN LICENSE No. 0065940 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

Scott Brown
Digitally signed by Scott A Brown
Date: 2023.08.15 10:30:21-05'00'

Rev.	Description	ECO	Date
B	Updated to 18'-2" max, IBC & PSF notes, jamb notes p2.	8838.01	08/01/23
A	New release for production.	8837.01	03/09/23

Scale: None
Drawn by: J. Poitras
Checked by: R. Frey
Date: 03/09/23
ECO: 8837.01

RAYNOR
1101 East River Road
Dixon, IL. 61021

Title: Spec, Wind Load
Raynor EnergyCore Series,
Encore Series

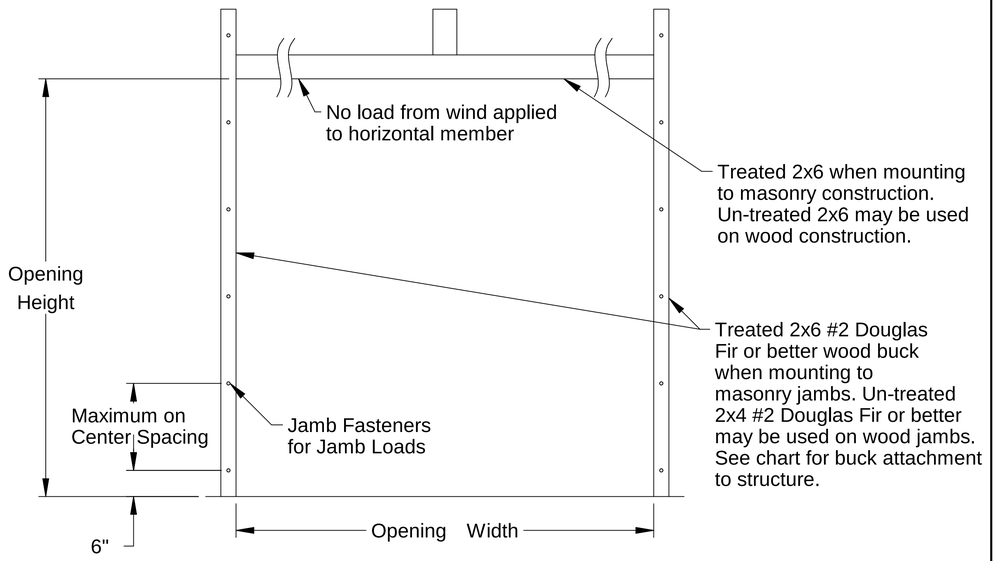
No. P-3350 | Sheet 1 of 4 | Rev B

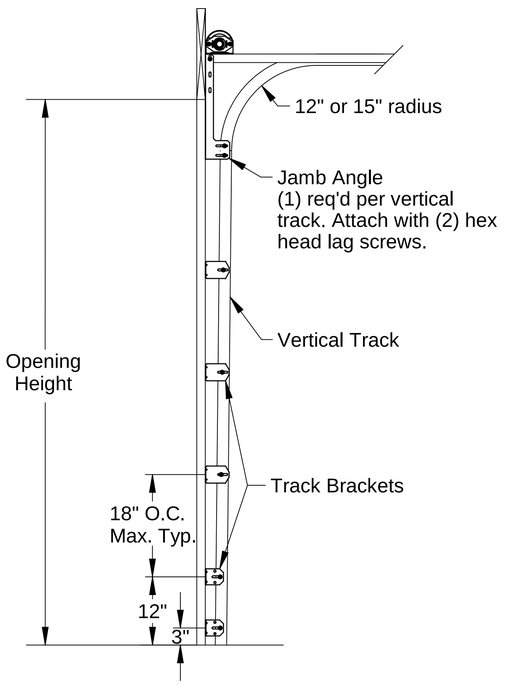
FL# 42145

Jamb Attachment Notes:
1. Maximum Positive Load per Jamb = (16'-2" x 45.0 PSF) / 2 = 365 lbs. per foot.
2. Maximum Negative Load per Jamb = (16'-2" x -52.0 PSF) / 2 = 422 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 1/4" pilot hole and 1-1/2" minimum required distance.
7. Masonry fasteners by others.
8. Garage doors evaluated as attached to enclosed buildings.
9. Garage doors evaluated as components and clading.

2x6 Attachment to Structure

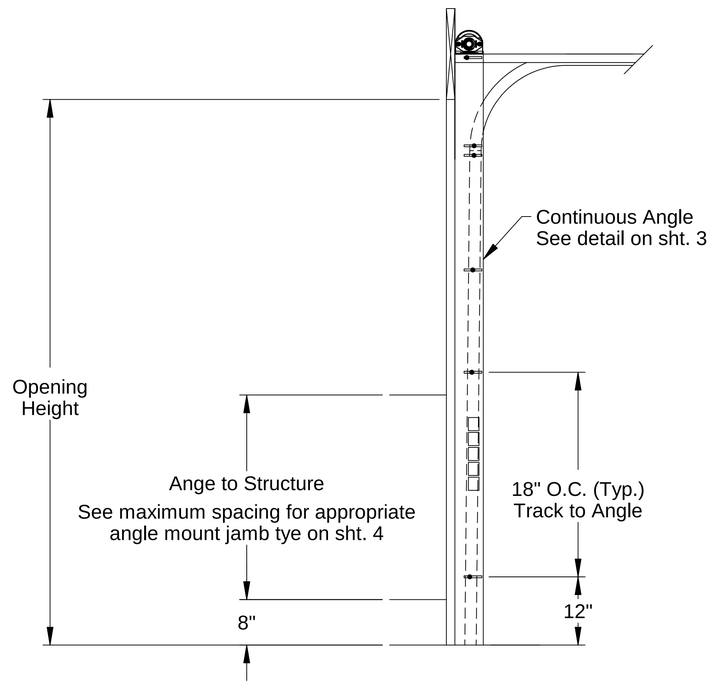
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5	6"	17"	526
Southern Pine	3/8" x 3" Lag with 1-1/8" OD Washer	1.50"	1.50"	1.50"	21"	655
Spruce Pine Fir	3/8" x 3" LAG with 1-1/8" OD Washer	1.50"	1.50"	1.50"	15"	482





Typical Track Installation
Bracket Mount
Wood Jambs

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



Typical Track Installation
Angle Mount
Wood, Steel or Concrete Jambs

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

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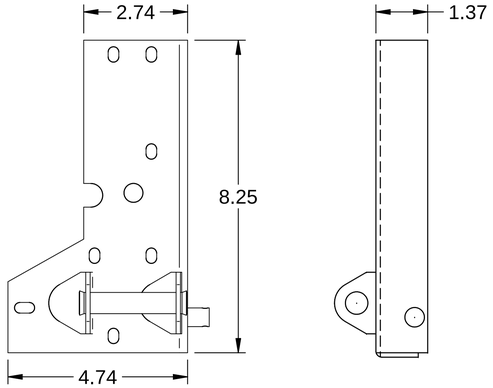
Willett, Hofmann & Associates, Inc.
809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

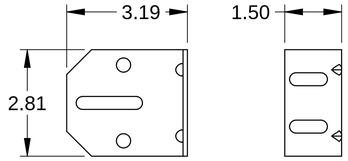
Digitally signed by Scott A Brown
Date: 2023.08.15 10:30:53-05'00'

Scale: None	RAYNOR 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Raynor EnergyCore Series, Encore Series
Drawn by: J. Poitras		
Checked by: R. Frey		
Date: 03/09/23		No. P-3350 | Sheet 2 | Rev B
ECO: 8837.01		

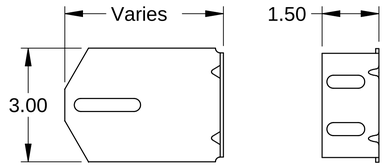
P-3350



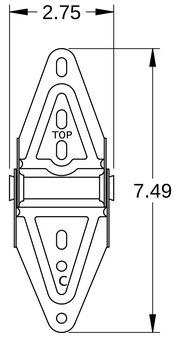
Corner Bracket
.116 Galv. Steel



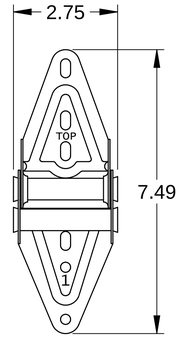
3" Track Bracket
.116 Galv. Steel



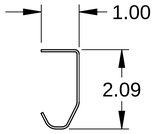
Track Bracket
.116 Galv. Steel



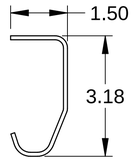
Center Hinge
.045 Galv. Steel



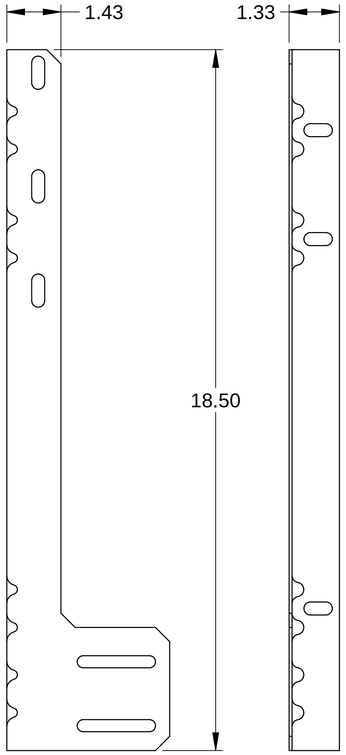
Edge Hinge
.086 Galv. Steel



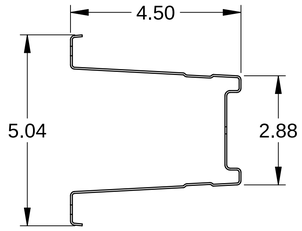
2" Track
.086 Galv. Steel



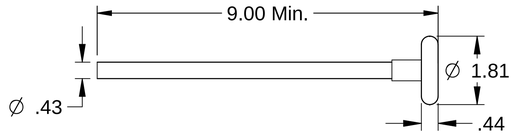
3" Track (Optional)
.105 Galv. Steel



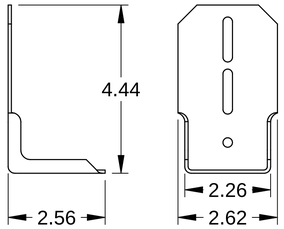
Jamb Angle
.078 min. Galv. Steel



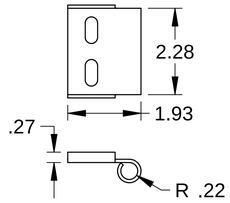
Steel Box Strut
18 Ga. (.049 min.) Galvanized
High Tensile Steel
80 KSI Minimum Yield



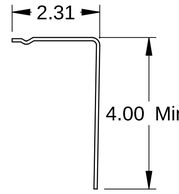
2" Roller
High tensile shaft
Nylon w/ precision bearing (Std.)



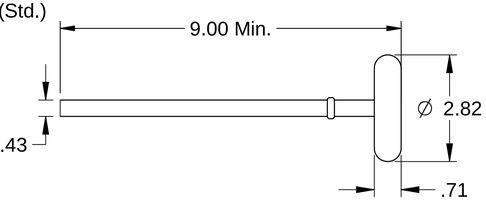
Top Fixture
.085 Galv. Steel



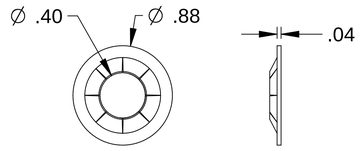
Roller Carrier
.114 Galv. Steel
Attached to Top Fixture
w/(2) Track Bolts and Whiz Nuts



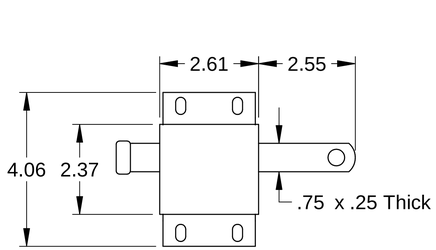
2" Angle Mount (Opt.)
.086 Galv. Steel



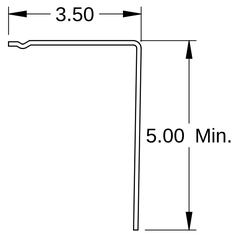
3" Roller
High tensile shaft
Steel w/ precision bearing (Opt.)



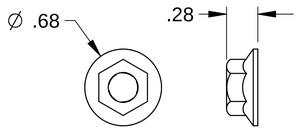
Retaining Nut



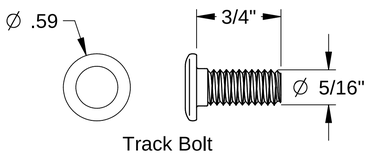
Slide Lock



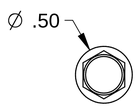
3" Angle Mount (Opt.)
.086 Min. Galv. Steel

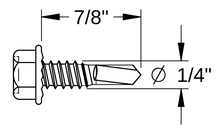


Serrated Hex Flange Nut

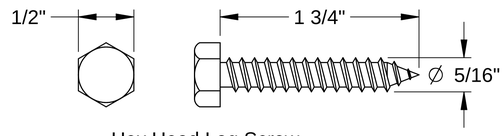


Track Bolt

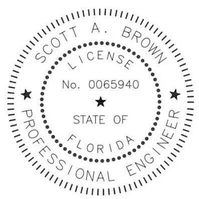




Self-Drilling Screw



Hex Head Lag Screw



Scott A. Brown, P.E. Lic. No. 65940
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809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Digitally signed by Scott A Brown
Date: 2023.08.15 10:31:20-05'00'

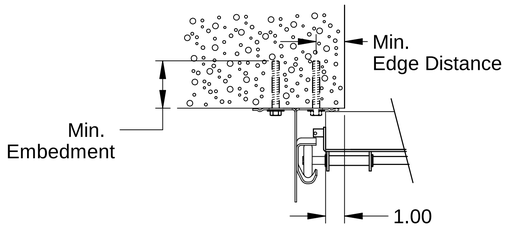
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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

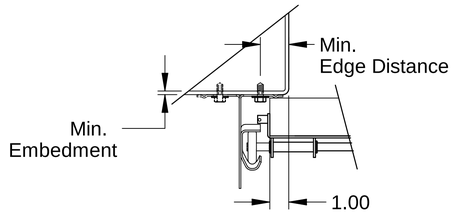
Scale: None	RAYNOR 1101 East River Road Dixon, IL. 61021	Title: Spec, Wind Load Raynor EnergyCore Series, Encore Series	
Drawn by: J. Poitras			
Checked by: R. Frey			
Date: 03/09/23		No. P-3350	Sheet 3 / Rev B
ECO: 8837.01			

Angle Mount					
Jamb Type	**Fastener Type**	**Minimum Embedment (in.)**	**Minimum Edge Distance (in.)**	**Maximum on Center Spacing (in.)**	**Allowable Tension Load (lbs.)**
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	18"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	18"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	18"	651
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	18"	971
Wood	3/8" x 1-3/4" Lag with 3/8" Washer	1-1/2"	1-1/2"	12"	482
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	12"	480

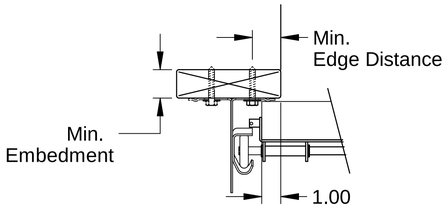
Alternate fasteners may be used if approved by a registered Professional Engineer.



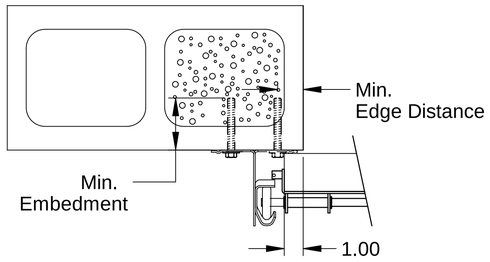
Track Assembly Attachment
to 2500 PSI Min. Concrete
2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available



Track Assembly Attachment
to 3/16" Min. Steel Jamb
2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available



Track Assembly Attachment
to Wood Jamb
2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available



Track Assembly Attachment
to Grout Filled CMU Block
2" Angle mount turned-out standard (solid)
2" Angle mount turned-in optional (dashed)
3" Angle mount available

SCOTT A. BROWN
LICENSE
No. 0065940
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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Structural Adequacy for Wind Load

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Date: 2023.08.15 10:31:47-05'00'

Scale: None	RAYNOR	Title: Spec, Wind Load Raynor EnergyCore Series, Encore Series	
Drawn by: J. Poitras			
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Date: 03/09/23	1101 East River Road Dixon, IL. 61021	No. P-3350	Sheet 4 / Rev B
ECO: 8837.01			