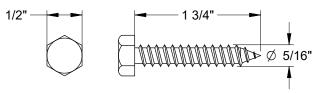
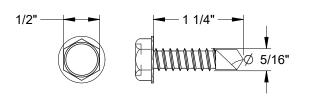


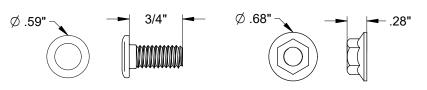
Fasteners & Small Hardware



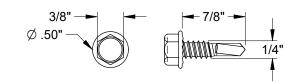
Hex Head Lag Screw Wood jambs, all jamb attachments. Install with supplied washer. Spacing & embedment specifications on sht. 4



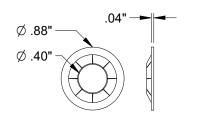
5/16" x 1-1/4" Self Drilling Screw Angle mount to steel jambs. Spacing & embedment specifications on sht. 4



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 Drilling Screw Attach hardware to sections. Quanity & location on sht. 1 elevation details.



Roller Keeper

(1) per roller.

Install at 1/2" space to roller carrier.

Washer (1) per hex head lag

Ø .86" Ø .37

	Ref. Section B-B on sht. 1			
Scale: None				
Drawn by: J. Poitras				
Checked by: R. Frey		RAYNO		
Date: 06/11/24		1101 East River Road		
ECO: 9064.01		Dixon, IL. 61021		

RAYNOR 1101 East River Road

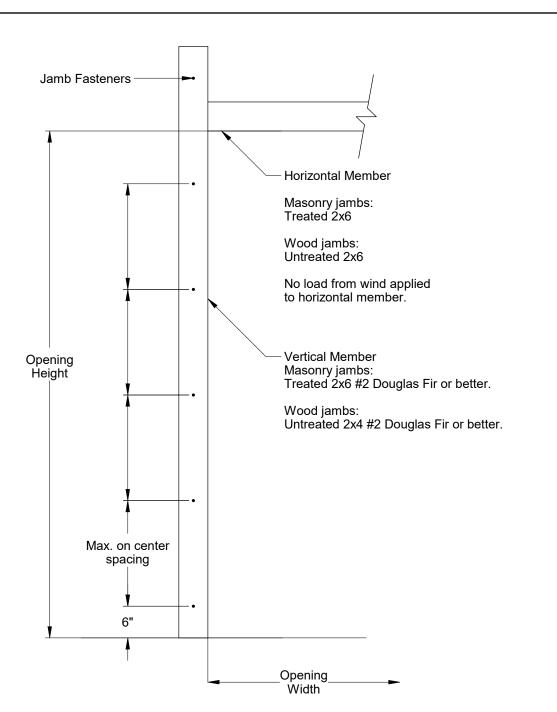
Spec, Wind Load Raynor EnergyCore

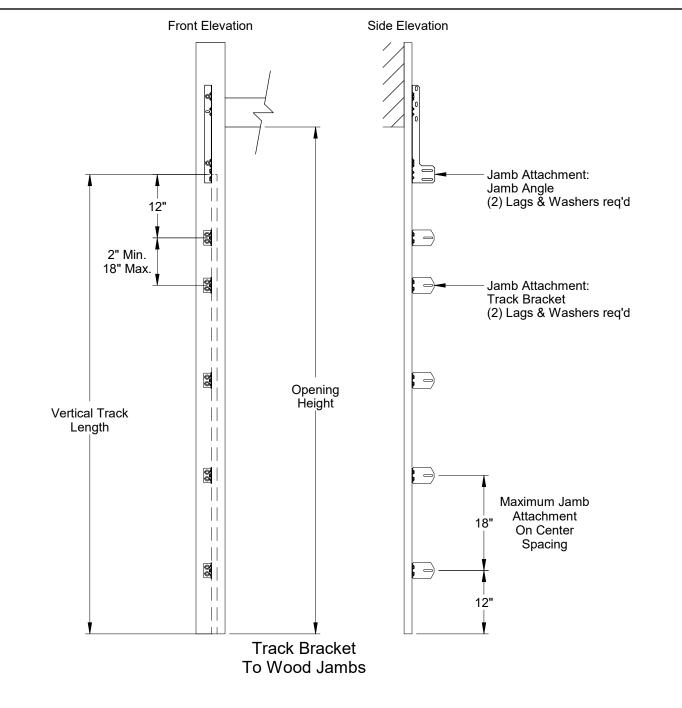
P-3407 Α

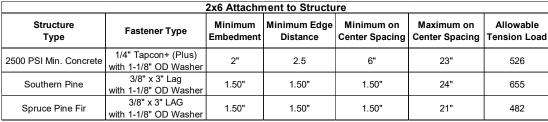
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Scott A. Brown, P.E. Lic. No. 65940

Willett, Hofmann & Associates, Inc. 809 E. 2nd Street, Dixon, IL 61021 Structural Adequacy for Wind Load





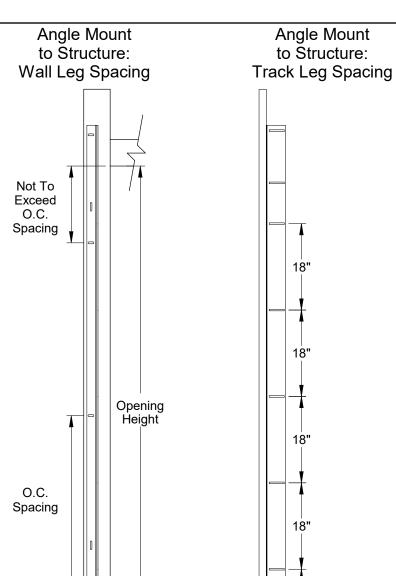


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- 1. Maximum Positive Load per Jamb = (20'-2" x 26.3 PSF) / 2 = 266 lbs. per foot.
- 2. Maximum Negative Load per Jamb = $(20'-2" \times -29.3 \text{ PSF}) / 2 = 296 \text{ lbs. per foot.}$
- 3. Design of the supporting structure shall be the sole responsibility of the building designer and shall be designed for the jamb loads listed in notes 1 and 2.
- 4. 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.
- 5. 3/8" diameter lag screws required 1/4" pilot hole and 1-1/2" minimum required distance.
- 6. Masonry fasteners by others.
- 7. Garage doors evaluated as attached to enclosed buildings.
- 8. Garage doors evaluated as components and clading.

cale: None		Title:			
rawn by: J. Poitras				Vind Load EnergyCore	
checked by: R. Frey	RAYNOR.				
ate: 06/11/24	1101 East River Road	NI.	D 0407	Sheet	Rev
co: 9064.01	Dixon, IL. 61021	No.	No. P-3407	3	Α

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Alternate Fastener Charts

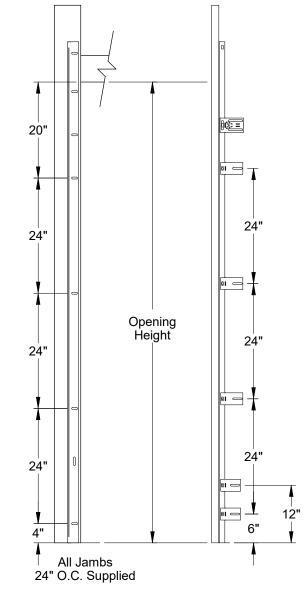
Angle Mount					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Tension Load
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	36"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	18"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	18"	651
Steel	5/16" x 1-1/4" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	36"	971
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	12"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	18"	480

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

Clip Angle					
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"	24"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	24"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	24"	651
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	24"	971
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	* 12"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	* 12"	480

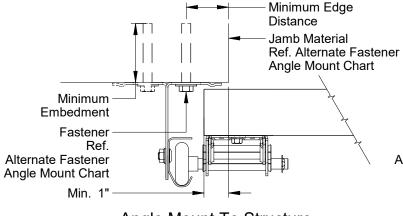
Alternate fasteners may be used if approved by a registered Professional Engineer.

Clip Angle Clip Angle to Structure: to Structure: Wall Leg Spacing Track Leg Spacing





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



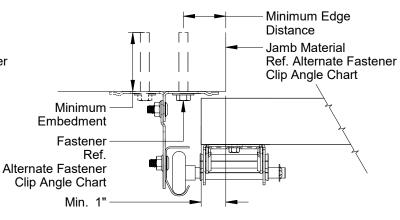
18"

18"

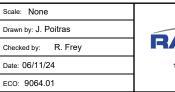
18"

18"

Angle Mount To Structure
2" Angle Shown
Leg-in solid, leg-out dashed 3" Ávailable



Clip Angle To Structure 2" Angle Shown Leg-in solid, leg-out dashed 3" Available



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Spec, Wind Load Raynor EnergyCore P-3407 Α

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^{*}Field drilling required