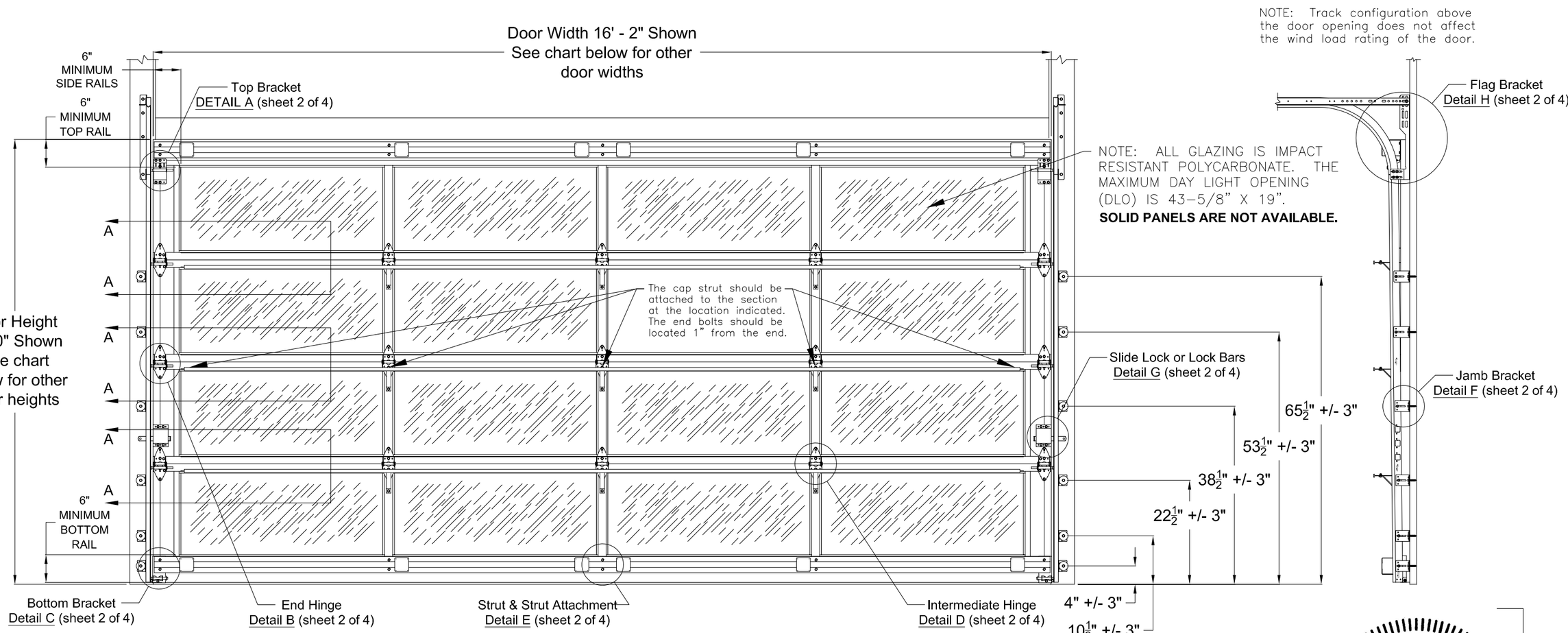


This product has been evaluated per ANSI/DASMA 108 for static air pressure.

This product has been evaluated per ANSI/DASMA 115 for large missile impact and cyclic wind pressure.

Door Widths Up To	Design Pressures		End Stile	Model Number: RA 360i SERIES Minimum Center		Model Number: CA 320i SERIES Minimum Center		Impact Resistant
	+ psf	- psf		Stiles	Hinges	Stiles	Hinges	
12'-2"	31.3	-34.9	Double	2	2	3	3	YES
14'-2"	31.3	-34.9	Double	3	3	3	3	YES
16'-2"	31.3	-34.9	Double	3	3	4	4	YES

This product is designed and sold by PSF. The AHJ or Engineer of Record is responsible for determining the PSF required for any given site.

Digitally signed by John E Scates
Date: 2025.10.09 13:56:15 -04'00'

Jamb bracket quantities shown are for use with grade 2 or better southern pine jambs.

Supporting structural elements are to be designed by a professional engineer for specific wind loads.

Door Height	Total # of Sections	Total # of Struts: E Strut	Total # of Struts: Cap Strut	Jamb Brkts per Side
6'-0"	3	2	2	5
6'-0"	4	2	3	5
6'-3"	4	2	3	5
6'-6"	4	2	3	5
6'-9"	4	2	3	5
7'-0"	4	2	3	6
7'-3"	4	2	3	6
7'-6"	4	2	3	6
7'-6"	5	2	4	6
7'-9"	4	2	3	6
7'-9"	5	2	4	6
8'-0"	4	2	3	6
8'-0"	5	2	4	6

Maximum section height is 27 in.

Maximum door height is 16 ft.

All doors, even those above the tested height, are available with jamb brackets or commercial full angle. The maximum spacing of the jamb brackets/track clips should be maintained.

NOTICE:
These drawings are a supplement to the installation instructions for a standard door and only covers those procedures that vary from standard door installation. If these specific procedures are not followed, the door may not perform as designed.

IMPACT RESISTANT

FL #27667.5

JOHN E. SCATES LICENSE No. 51737 STATE OF FLORIDA PROFESSIONAL ENGINEER

STATE OF TEXAS JOHN E. SCATES 56308 LICENSED PROFESSIONAL ENGINEER

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8811 Teel Pkwy #100-5175
Frisco, Texas 75036
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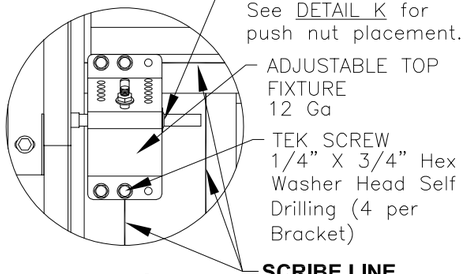
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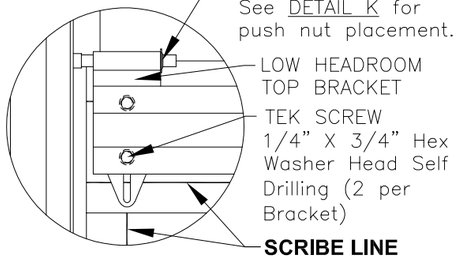
320 Sycamore
Wauseon, Ohio 43567
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DESCRIPTION:
16' 2" EXTRUDED ALUMINUM SERIES
WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +31.3/-34.9 PSF

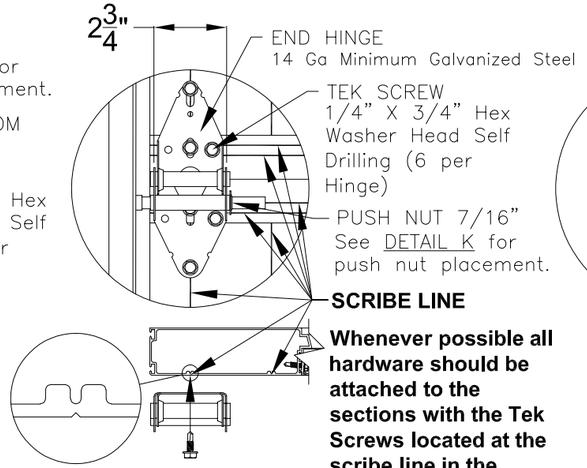
DRAWING NO.: WL-C300-0194-08-31-35		REV.	E
DRAWN BY: MVS	DATE DRAWN: 6/1/18	REV. DATE:	10/1/25
MODEL(S): See Sheet 3		SHEET: 1 OF 4	



DETAIL A

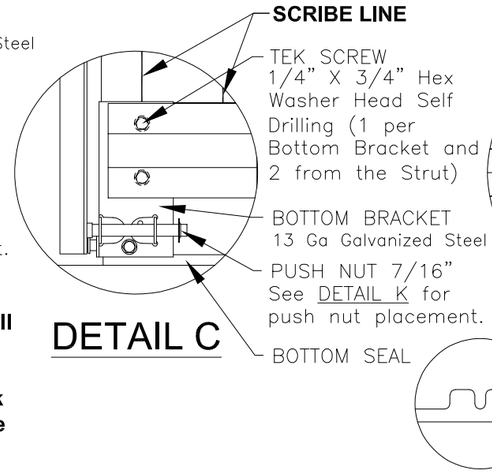


LOW HEADROOM TOP BRACKET

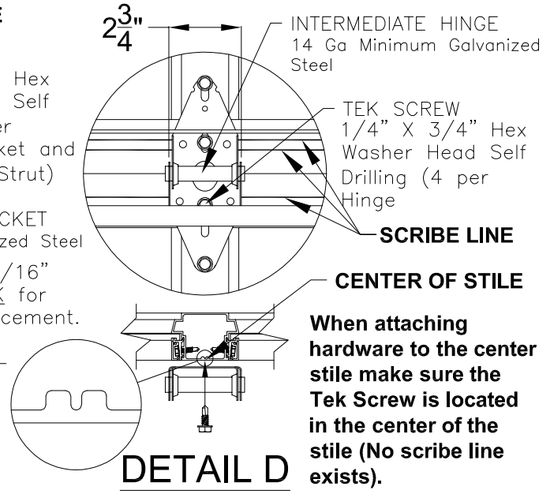


DETAIL B

Whenever possible all hardware should be attached to the sections with the Tek Screws located at the scribe line in the aluminum extrusion.

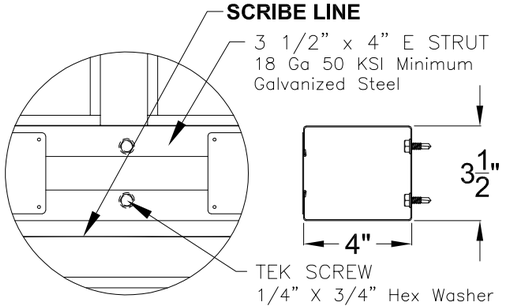


DETAIL C

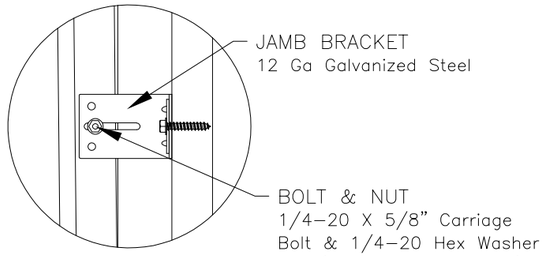


DETAIL D

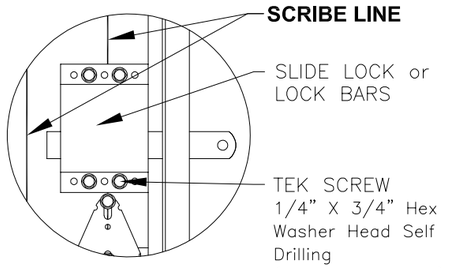
When attaching hardware to the center stile make sure the Tek Screw is located in the center of the stile (No scribe line exists).



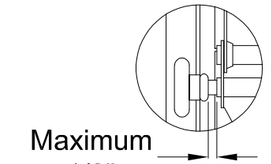
DETAIL E



DETAIL F

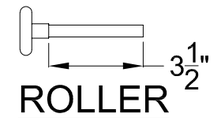


DETAIL G



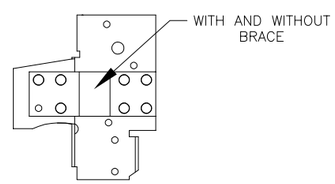
DETAIL K

There should be a space of maximum 1/2" between the roller hub and the outside edge of the roller holder which is set by the push nut.

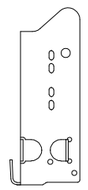


ROLLER

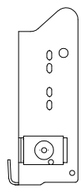
2" Diameter Nominal Eleven Ball Nylon or Ten Ball Steel with a Minimum Workable Shaft Length Shown.



RESIDENTIAL & LIGHT COMMERCIAL
For Low Headroom With 2" Track and Single End Stiles



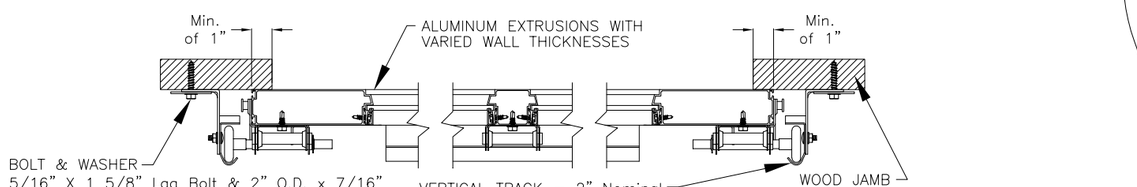
COMMERCIAL
For Standard, High & Vertical Lift With 2" Track and Single End Stiles



COMMERCIAL
For Standard, High & Vertical Lifte With 3" Track and Single End Stiles

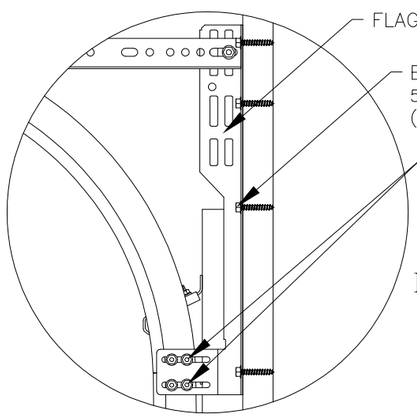
ALTERNATE BOTTOM BRACKETS

NOTE: The bottom bracket tested (shown in DETAIL C) is the lightest bracket available.



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NOTE: Details on some views omitted for clarity.
Double end stiles and end hardware may be provided on wider or heavier doors.



DETAIL H

IMPACT RESISTANT

FL #27667.5

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No. 51737
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

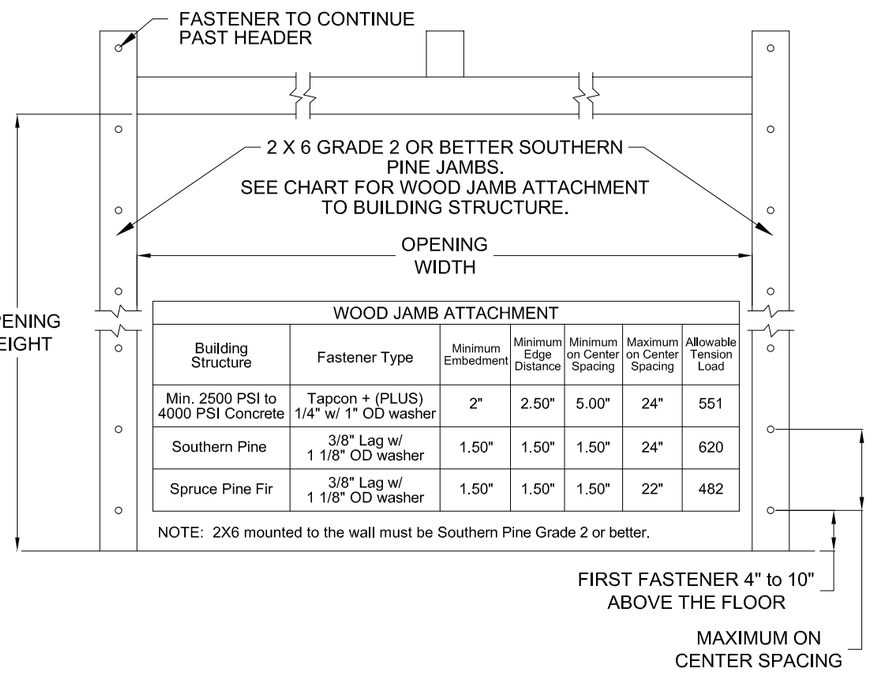
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8811 Teel Pkwy #100–5175
Frisco, Texas 75036
Florida P.E. 51737
Texas P.E. 56308/F–2203

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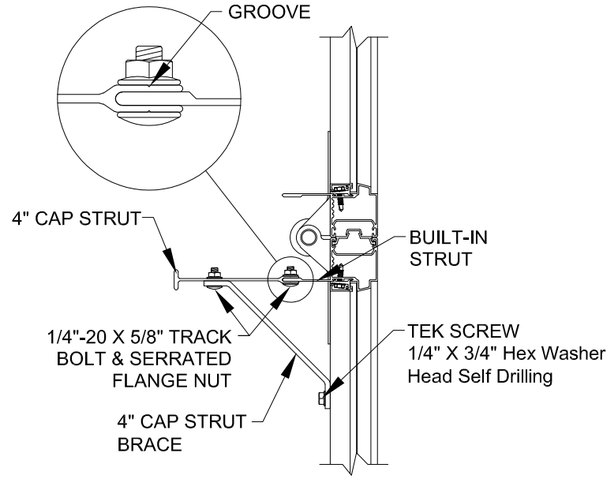
DESCRIPTION:
16' 2" EXTRUDED ALUMINUM SERIES
WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +31.3/-34.9 PSF

DRAWING NO.: WL-C300-0194-08-31-35		**REV.**	E
DRAWN BY: MVS	**DATE DRAWN:** 6/1/18	**REV. DATE:**	10/1/25
MODEL(S): See Sheet 3		**SHEET:** 2 **OF** 4	



WOOD JAMB ATTACHMENT						
Building Structure	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
Min. 2500 PSI to 4000 PSI Concrete	Tapcon + (PLUS) 1/4" w/ 1" OD washer	2"	2.50"	5.00"	24"	551
Southern Pine	3/8" Lag w/ 1 1/8" OD washer	1.50"	1.50"	1.50"	24"	620
Spruce Pine Fir	3/8" Lag w/ 1 1/8" OD washer	1.50"	1.50"	1.50"	22"	482

NOTE: 2X6 mounted to the wall must be Southern Pine Grade 2 or better.



Section A-A

Scale: 4 = 1

NOTE: To install the cap strut, first center it horizontally with the built-in strut. Next tap on the flat end until it is fully engaged with the built-in strut. Fasten the two together using the provided track bolts. A bolt should be used at each hinge location and at the end of each cap strut. The end bolts should be located a minimum of 1" from the end of the cap strut. There is a groove in the cap strut that should be used as a guide for drilling the holes. Finally attach the cap strut brace at each hinge location using a track bolt and tek screw.

MODEL NUMBERS

MODEL NUMBERS AVAILABLE
RA 360i SERIES
CA 320i SERIES

STATE OF TEXAS
JOHN E. SCATES
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LICENSED PROFESSIONAL ENGINEER

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LICENSE
No. 51737
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FLORIDA
PROFESSIONAL ENGINEER

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8811 Teel Pkwy #100-5175
Frisco, Texas 75036
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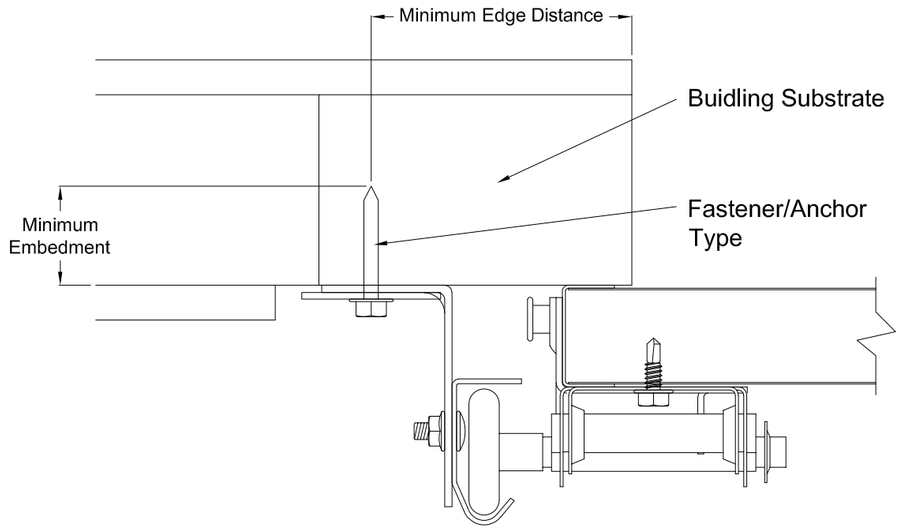
FL #27667.5

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A Nofziger Company

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Wauseon, Ohio 43567
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DESCRIPTION:
16' 2" EXTRUDED ALUMINUM SERIES
WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +31.3/-34.9 PSF

DRAWING NO.: WL-C300-0194-08-31-35		**REV.** E	
DRAWN BY: MVS	**DATE DRAWN:** 6/1/18	**REV. DATE:** 10/1/25	
MODEL(S): See Sheet 3		**SHEET:** 3 **OF** 4	



Direct Mounting Detail

Bracket Mount Shown, Reverse and Continuous Angle Mount, Reverse and Continuous Angle Clip Mount Also Approved As Alternate.

DIRECT MOUNTING					
Building Substrate	Fastener Type	Minimum Embedment	Minimum Fastener Length	Minimum Edge Distance	Minimum on Center Spacing
Southern Pine (SYP)	5/16" Dia. Lag Screw w/1-1/8" OD Flat Washer (shall conform to ANSI/ASME standard B18.2.1)	-	1-5/8"	1/2"	-
Spruce-Pine-Fur (SPF)	5/16" Dia. Lag Screw w/1-1/8" OD Flat Washer (shall conform to ANSI/ASME standard B18.2.1)	-	2-1/4"	1/2"	-
Min. 2500 PSI Concrete	3/8" Dia. Ankr-Tite CCAT w/1-1/8" OD Flat Washer (by Wej-It Fastening Systems)	2-3/8"	-	2-1/2"	6"
Min. 2500 PSI Concrete	1/4" Dia. Tapcon+ by ITW w/1-1/8" OD Flat Washer	2"	-	2-1/2"	5"
Min. 2500 PSI Concrete	1/4" Dia. Wedge-Bolt+ by Powers Fasteners w/1-1/8" OD Flat Washer	1-3/4"	-	2-1/2"	5"
Min. 2500 PSI Concrete	1/4" Dia. Red Head TruBolt wedge anchor by ITW w/1-1/8" OD Flat Washer	1-3/4"	-	2-1/2"	5"
1/8" GA Steel Minimuml	5/16"-12 Tek Self-Drilling Screw w/1-1/8" OD Flat Washer	-	1"	-	-
3/16" GA Steel	Fillet Weld	See DASMA Technical Data Sheet TDS-161, section G			

NOTE: Doors are available with jamb brackets or commercial full angle. In either case the the maximum spacing noted on sheet 1 should be maintained for the brackets, clips and fasteners for direct mount.

STATE OF TEXAS
JOHN E. SCATES
56308
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JOHN E. SCATES
LICENSE
No. 51737
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PROFESSIONAL ENGINEER

IMPACT RESISTANT

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8811 Teel Pkwy #100-5175
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WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +31.3/-34.9 PSF

DRAWING NO.: WL-C300-0194-08-31-35			**REV.** E
DRAWN BY: MVS	**DATE DRAWN:** 6/1/18	**REV. DATE:** 10/1/25	
MODEL(S): See Sheet 3			**SHEET:** 4 **OF** 4