

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.

				Model Number						
				PAN C2480 & R2480 SERIES PAN C2481 & R2481 SERIES PAN C2482 & R2482 SERIES PAN R2580 SERIES PAN R2581 SERIES PAN R2582 SERIES		PAN C2460 & R2460 SERIES PAN C2461 & R2461 SERIES		PAN C2410 & R2410 SERIES PAN C2011 SERIES PAN C2015 SERIES PAN C2411 SERIES PAN C2415 SERIES PAN C2511 SERIES		
Door Widths Up To	Design Pressures		End Stile	Minimum Center		Minimum Center		Minimum Center		Impact Resistant
	+ psf	- psf		Stiles	Hinges	Stiles	Hinges	Stiles	Hinges	
8'-2"	46.1	-52.0	Double	3	1	3	1	3	1	NO
9'-2"	41.1	-46.4	Double	3	1	3	1	3	1	YES
10'-2"	33.4	-37.7	Double	4	2	3	1	5	2	NO
12'-2"	23.3	-26.3	Double	5	2	5	2	5	2	NO
8'-2"	41.1	-46.4	Double	3	1	3	1	3	1	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.

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

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

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

Maximum section height is 21 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 #16650.7

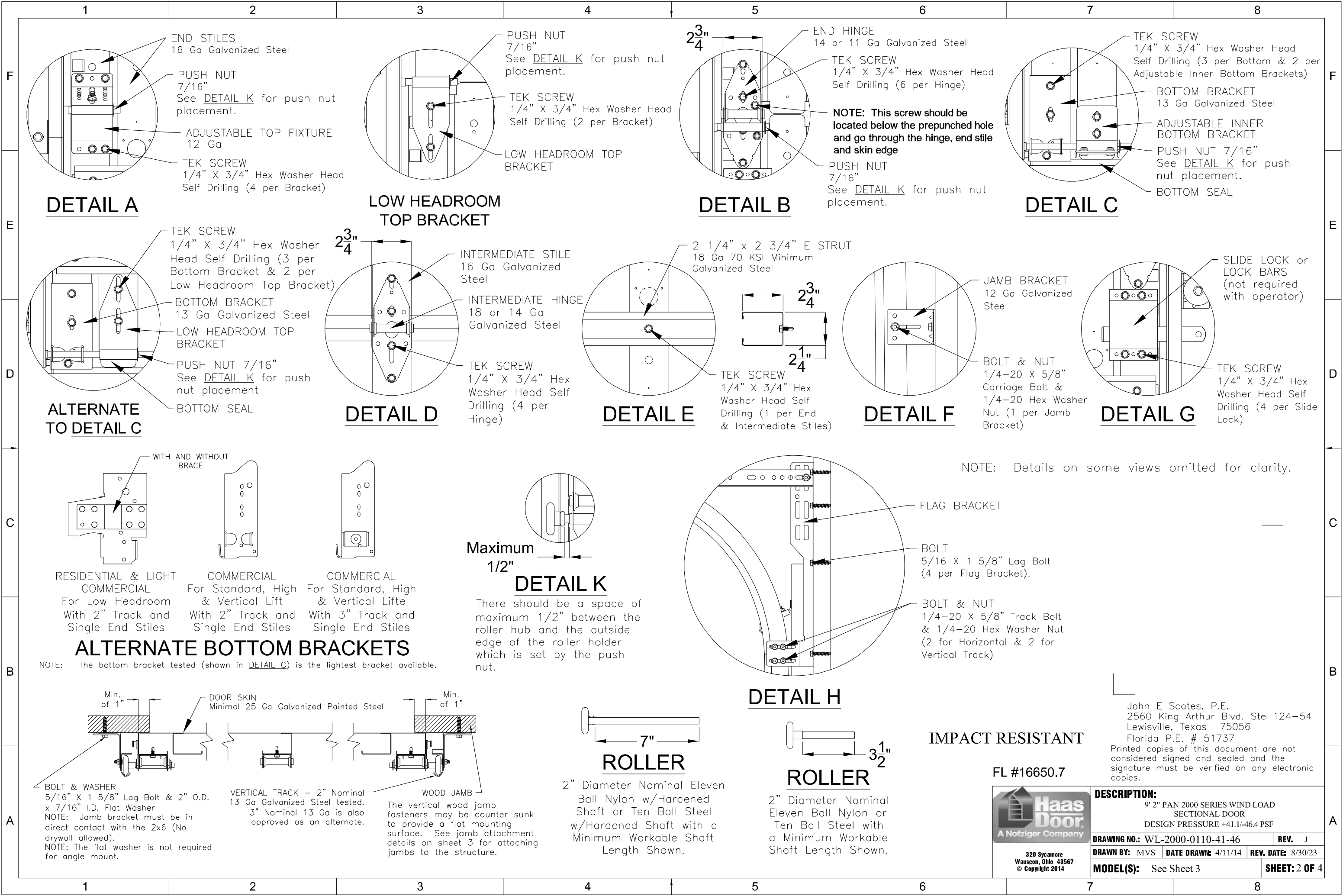


320 Sycamore
Wauseon, Ohio 43567
© Copyright 2014

DESCRIPTION:
9' 2" PAN 2000 SERIES WIND LOAD
SECTIONAL DOOR
DESIGN PRESSURE +41.1/-46.4 PSF

DRAWING NO.: WL-2000-0110-41-46	REV. J	
DRAWN BY: MVS	DATE DRAWN: 4/11/14	REV. DATE: 8/30/23
MODEL(S): See Sheet 3		SHEET: 1 OF 4

John E. Scates, P.E.
2560 King Arthur Blvd. Ste 124-54
Lewisville, Texas 75056
Florida P.E. # 51737
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



END STILES
16 Ga Galvanized Steel

PUSH NUT
7/16"
See DETAIL K for push nut placement.

ADJUSTABLE TOP FIXTURE
12 Ga

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (4 per Bracket)

DETAIL A

PUSH NUT
7/16"
See DETAIL K for push nut placement.

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (2 per Bracket)

LOW HEADROOM TOP BRACKET

LOW HEADROOM TOP BRACKET

2 3/4"

END HINGE
14 or 11 Ga Galvanized Steel

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (6 per Hinge)

NOTE: This screw should be located below the prepunched hole and go through the hinge, end stile and skin edge

PUSH NUT
7/16"
See DETAIL K for push nut placement.

DETAIL B

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (3 per Bottom & 2 per Adjustable Inner Bottom Brackets)

BOTTOM BRACKET
13 Ga Galvanized Steel

ADJUSTABLE INNER BOTTOM BRACKET

PUSH NUT 7/16"
See DETAIL K for push nut placement.

BOTTOM SEAL

DETAIL C

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (3 per Bottom Bracket & 2 per Low Headroom Top Bracket)

BOTTOM BRACKET
13 Ga Galvanized Steel

LOW HEADROOM TOP BRACKET

PUSH NUT 7/16"
See DETAIL K for push nut placement

BOTTOM SEAL

ALTERNATE TO DETAIL C

2 3/4"

INTERMEDIATE STILE
16 Ga Galvanized Steel

INTERMEDIATE HINGE
18 or 14 Ga Galvanized Steel

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (4 per Hinge)

DETAIL D

2 1/4" x 2 3/4" E STRUT
18 Ga 70 KSI Minimum Galvanized Steel

2 3/4"

2 1/4"

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (1 per End & Intermediate Stiles)

DETAIL E

JAMB BRACKET
12 Ga Galvanized Steel

BOLT & NUT
1/4-20 X 5/8" Carriage Bolt & 1/4-20 Hex Washer Nut (1 per Jamb Bracket)

DETAIL F

SLIDE LOCK or LOCK BARS (not required with operator)

TEK SCREW
1/4" X 3/4" Hex Washer Head Self Drilling (4 per Slide Lock)

DETAIL G

WITH AND WITHOUT BRACE

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 Lift With 3" Track and Single End Stiles

ALTERNATE BOTTOM BRACKETS

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

Maximum 1/2"

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.

NOTE: Details on some views omitted for clarity.

FLAG BRACKET

BOLT
5/16 X 1 5/8" Lag Bolt (4 per Flag Bracket).

BOLT & NUT
1/4-20 X 5/8" Track Bolt & 1/4-20 Hex Washer Nut (2 for Horizontal & 2 for Vertical Track)

DETAIL H

Min. of 1"

DOOR SKIN
Minimal 25 Ga Galvanized Painted Steel

Min. of 1"

BOLT & WASHER
5/16" X 1 5/8" Lag Bolt & 2" O.D. x 7/16" I.D. Flat Washer
NOTE: Jamb bracket must be in direct contact with the 2x6 (No drywall allowed).
NOTE: The flat washer is not required for angle mount.

VERTICAL TRACK - 2" Nominal 13 Ga Galvanized Steel tested. 3" Nominal 13 Ga is also approved as an alternate.

WOOD JAMB
The vertical wood jamb fasteners may be counter sunk to provide a flat mounting surface. See jamb attachment details on sheet 3 for attaching jambs to the structure.

7"

ROLLER

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


3 1/2"

ROLLER

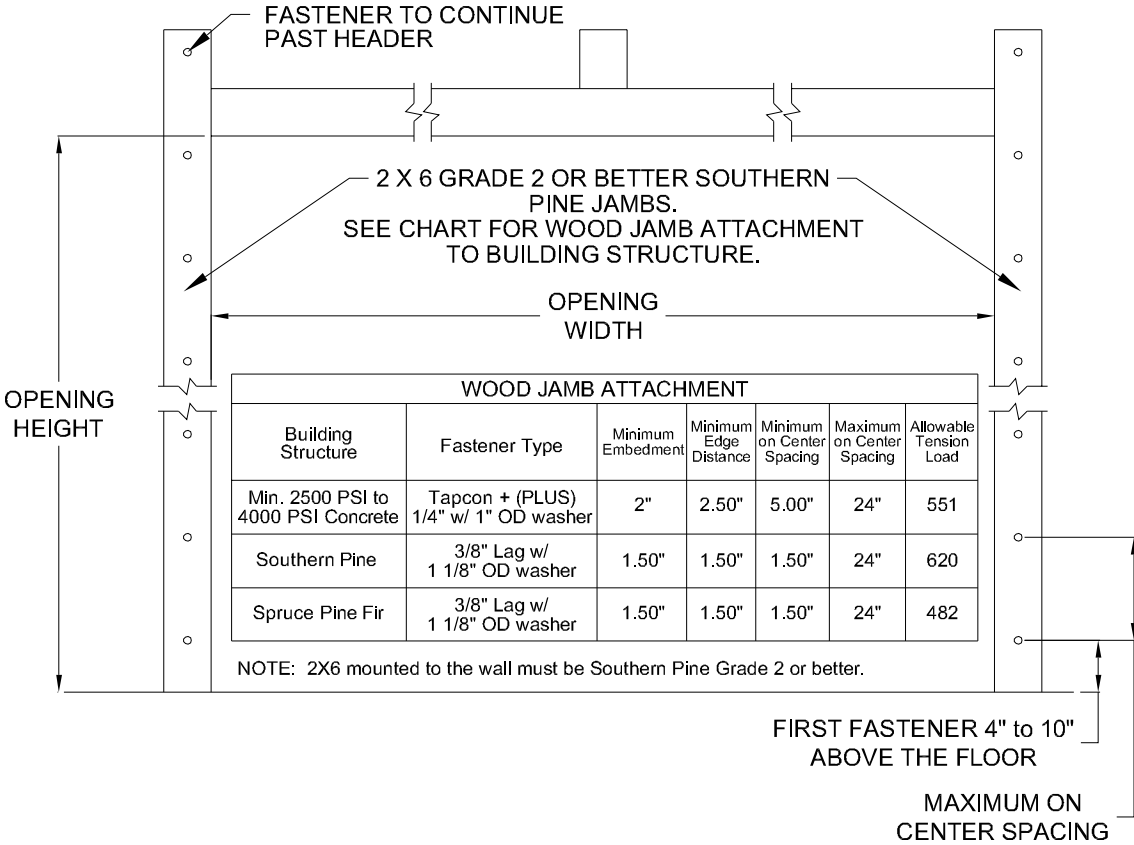
2" Diameter Nominal Eleven Ball Nylon or Ten Ball Steel with a Minimum Workable Shaft Length Shown.

IMPACT RESISTANT

FL #16650.7

 A Nofziger Company		DESCRIPTION: 9' 2" PAN 2000 SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +41.1/-46.4 PSF	
DRAWING NO.: WL-2000-0110-41-46		REV. J	
DRAWN BY: MVS	DATE DRAWN: 4/11/14	REV. DATE: 8/30/23	
MODEL(S): See Sheet 3		SHEET: 2 OF 4	

John E. Scates, P.E.
2560 King Arthur Blvd. Ste 124-54
Lewisville, Texas 75056
Florida P.E. # 51737
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.




MODEL NUMBERS

MODEL NUMBERS AVAILABLE
PAN C2011 SERIES
PAN C2015 SERIES
PAN C2411 SERIES
PAN C2415 SERIES
PAN C2511 SERIES
PAN C2410 & R2410 SERIES
PAN C2460 & R2460 SERIES
PAN C2461 & R2461 SERIES
PAN C2471 & R2471 SERIES
PAN C2472 & R2472 SERIES
PAN C2480 & R2480 SERIES
PAN C2481 & R2481 SERIES
PAN C2482 & R2482 SERIES
PAN R2560 SERIES
PAN R2561 SERIES
PAN R2571 SERIES
PAN R2572 SERIES
PAN R2580 SERIES
PAN R2581 SERIES
PAN R2582 SERIES

IMPACT RESISTANT

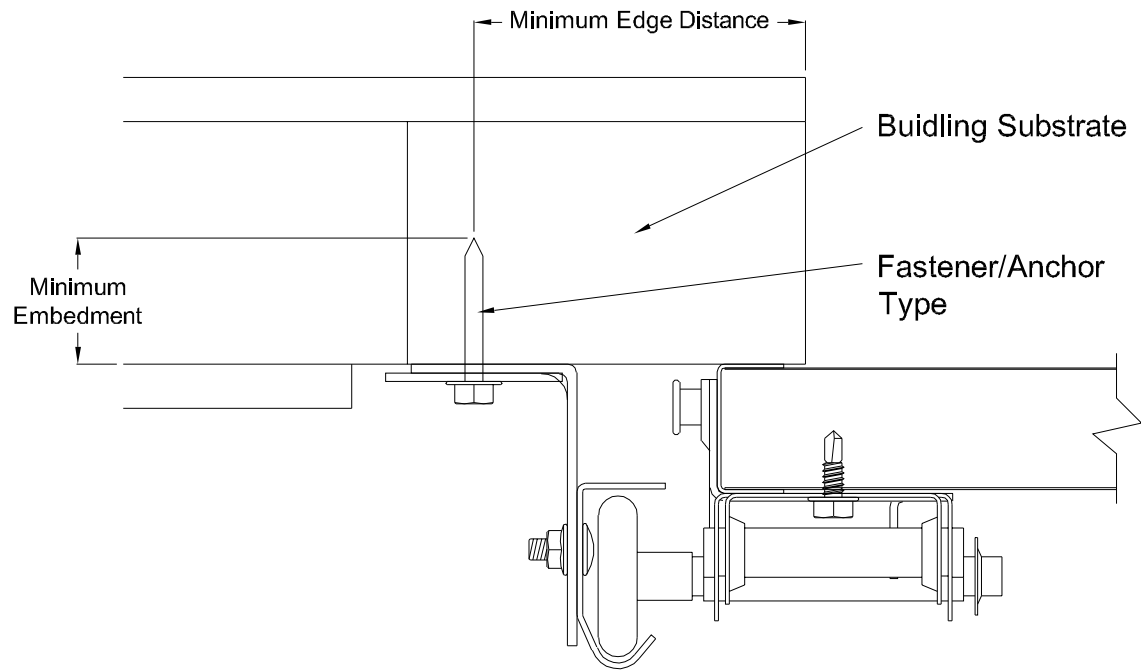
FL #16650.7



320 Sycamore
Wauseon, Ohio 43567
© Copyright 2014

DESCRIPTION: 9' 2" PAN 2000 SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +41.1/-46.4 PSF		
DRAWING NO.: WL-2000-0110-41-46		REV. J
DRAWN BY: MVS	DATE DRAWN: 4/11/14	REV. DATE: 8/30/23
MODEL(S): See Sheet 3		SHEET: 3 OF 4

John E. Scates, P.E.
2560 King Arthur Blvd. Ste 124-54
Lewisville, Texas 75056
Florida P.E. # 51737
Printed copies of this document are not
considered signed and sealed and the
signature must be verified on any electronic
copies.



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 Minimum	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.

IMPACT RESISTANT

FL #16650.7



320 Sycamore
Wauseon, Ohio 43567
© Copyright 2014

John E. Scates, P.E.
2560 King Arthur Blvd. Ste 124-54
Lewisville, Texas 75056
Florida P.E. # 51737
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DESCRIPTION: 9' 2" PAN 2000 SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +41.1/-46.4 PSF			
DRAWING NO.: WL-2000-0110-41-46			REV. J
DRAWN BY: MVS	DATE DRAWN: 4/11/14	REV. DATE: 8/30/23	
MODEL(S): See Sheet 3			SHEET: 4 OF 4