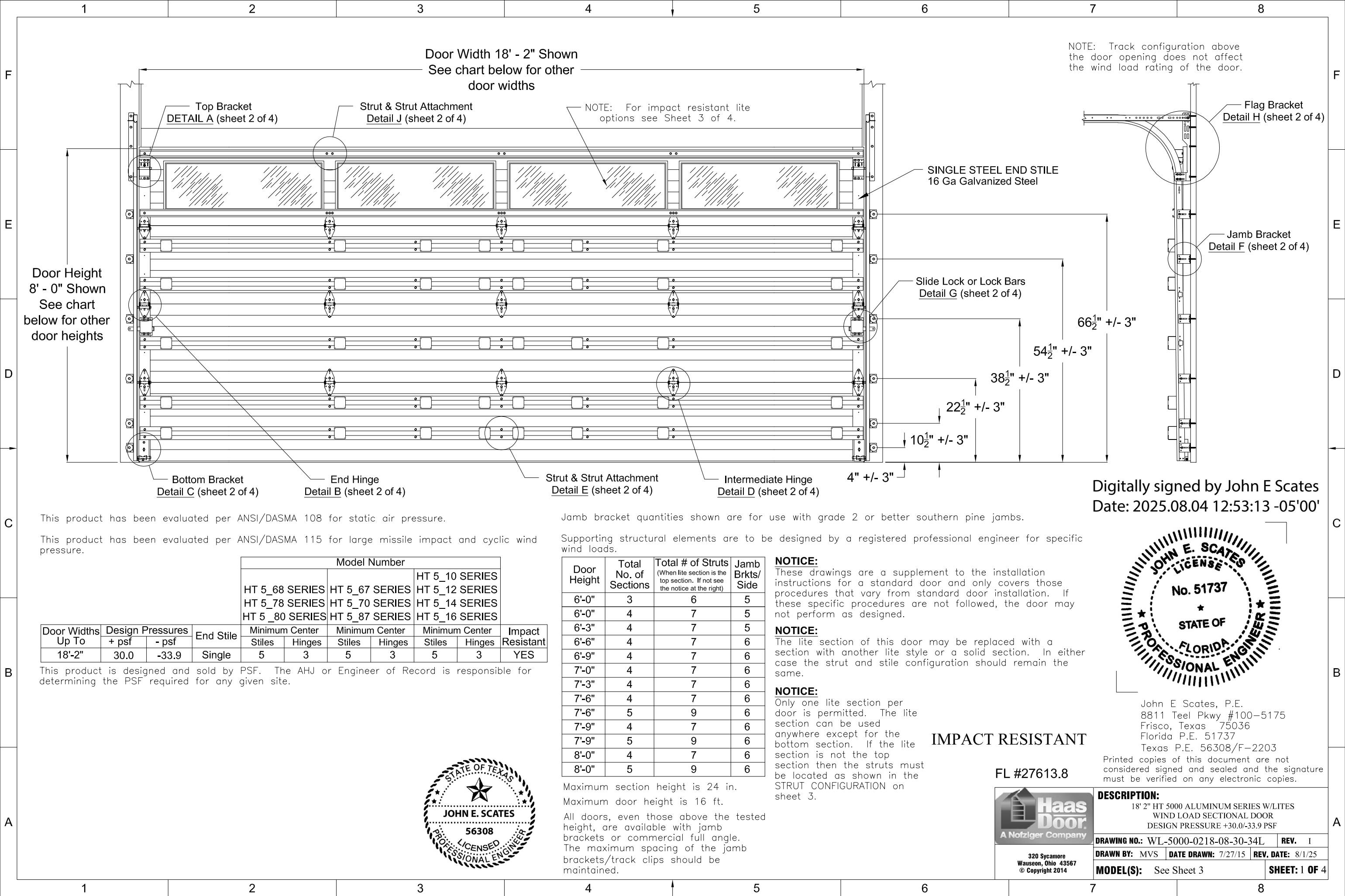


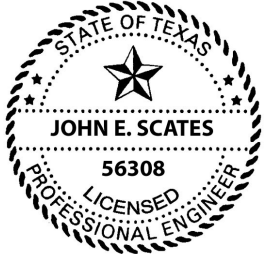


This product has been evaluated per ANSI/DASMA 108 for static air pressure.

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

				Model Number						
				HT 5_68 SERIES HT 5_78 SERIES HT 5_80 SERIES		HT 5_67 SERIES HT 5_70 SERIES HT 5_87 SERIES		HT 5_10 SERIES		
								HT 5_12 SERIES		
								HT 5_14 SERIES		
								HT 5_16 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	
18'-2"	30.0	-33.9	Single	5	3	5	3	5	3	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 No. of Sections	Total # of Struts (When lite section is the top section. If not see the notice at the right)	Jamb Brkts/ Side
6'-0"	3	6	5
6'-0"	4	7	5
6'-3"	4	7	5
6'-6"	4	7	6
6'-9"	4	7	6
7'-0"	4	7	6
7'-3"	4	7	6
7'-6"	4	7	6
7'-6"	5	9	6
7'-9"	4	7	6
7'-9"	5	9	6
8'-0"	4	7	6
8'-0"	5	9	6

Maximum section height is 24 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.

NOTICE:
The lite section of this door may be replaced with a section with another lite style or a solid section. In either case the strut and stile configuration should remain the same.

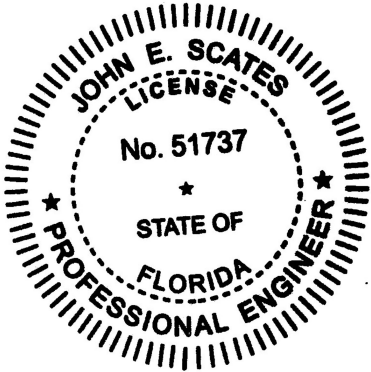
NOTICE:
Only one lite section per door is permitted. The lite section can be used anywhere except for the bottom section. If the lite section is not the top section then the struts must be located as shown in the STRUT CONFIGURATION on sheet 3.

IMPACT RESISTANT

FL #27613.8



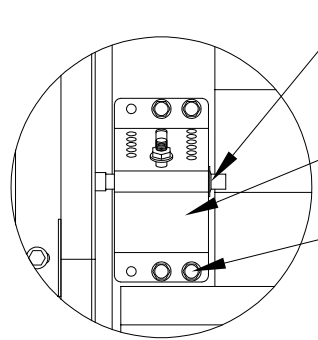
Digitally signed by John E Scates
Date: 2025.08.04 12:53:13 -05'00'



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

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DESCRIPTION: 18' 2" HT 5000 ALUMINUM SERIES W/LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +30.0/-33.9 PSF			
DRAWING NO.: WL-5000-0218-08-30-34L	REV. 1		
DRAWN BY: MVS	DATE DRAWN: 7/27/15	REV. DATE: 8/1/25	
MODEL(S): See Sheet 3			SHEET: 1 OF 4

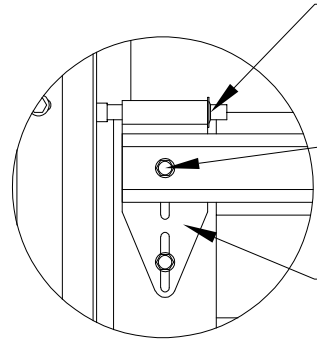


PUSH NUT
7/16"
See DETAIL K for push nut
placement.

ADJUSTABLE TOP FIXTURE
12 Ga

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

DETAIL A

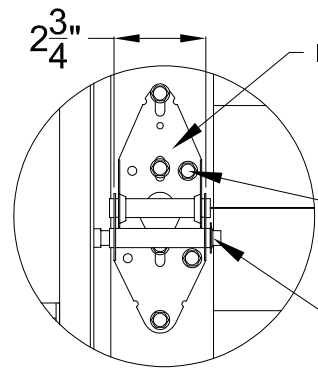


PUSH NUT
7/16"
See DETAIL K for push nut
placement.

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

LOW HEADROOM TOP
BRACKET - 12 Ga

**LOW HEADROOM
TOP BRACKET**

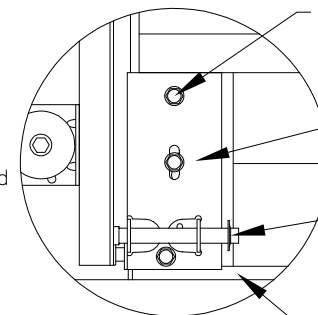


END HINGE
14 Ga Minimum Galvanized Steel

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

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

DETAIL B



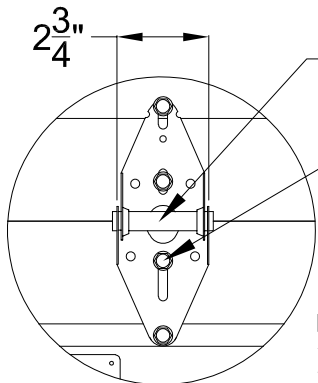
TEK SCREW
1/4" X 3/4" Hex Washer Head
Self Drilling (3 per Bottom Bracket)

BOTTOM BRACKET
13 Ga Galvanized Steel

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

BOTTOM SEAL

DETAIL C

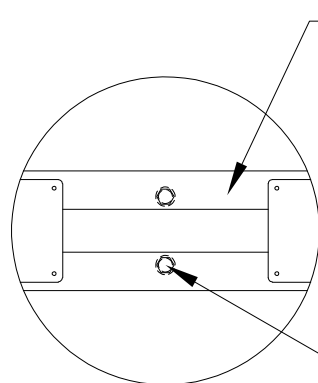


INTERMEDIATE HINGE
18 Ga Minimum Galvanized
Steel

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

DETAIL D

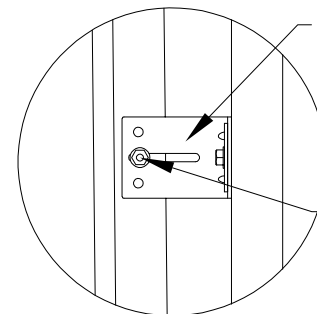
NOTE: The location of
the intermediate hinges
is indicated by the
toggle lock dimples at
the top of each section.



3 1/2" x 4" E STRUT
18 Ga 50 KSI Minimum
Galvanized Steel

TEK SCREW
1/4" X 3/4" Hex Washer
Head Self Drilling (2 per
End & Intermediate Stiles)

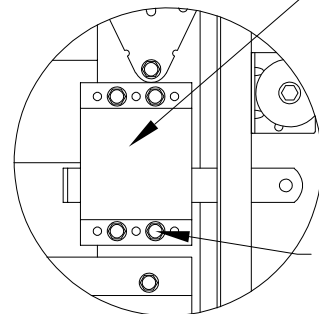
DETAIL E



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)

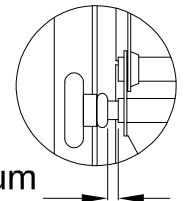
DETAIL F



SLIDE LOCK or
LOCK BARS

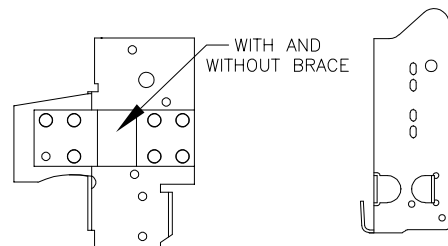
TEK SCREW
1/4" X 3/4" Hex Washer
Head Self Drilling (4 per
Slide Lock)

DETAIL G

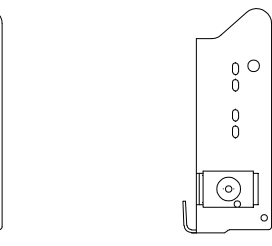


Maximum
1/2"
DETAIL K

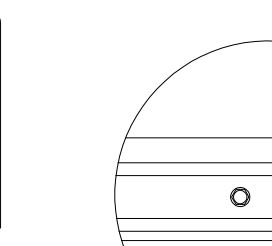
There should be a
space of maximum
1/2" between the roller
hub and the outside
edge of the roller
holder which is set by
the push nut.



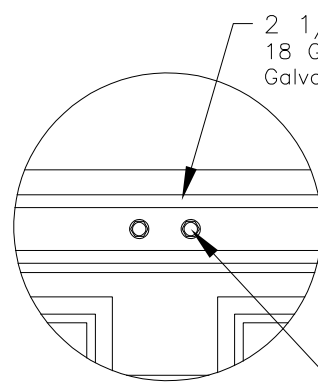
RESIDENTIAL & LIGHT
COMMERCIAL
For Low Headroom
With 2" Track and
Single End Stiles



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



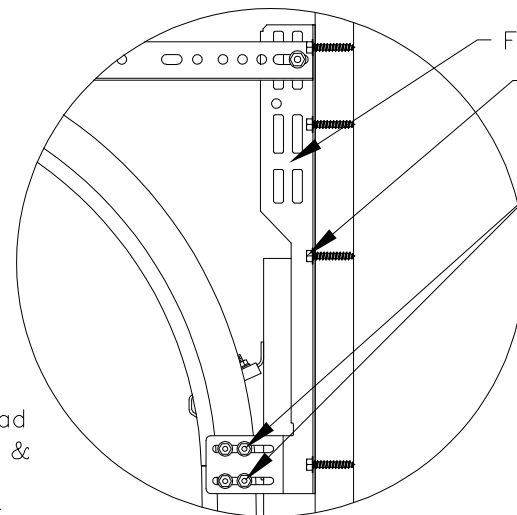
COMMERCIAL
For Standard, High
& Vertical Lift
With 3" Track and
Single End Stiles



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

DETAIL J

TEK SCREW
1/4" x 3/4" Hex Washer Head
Self Drilling (1 per End Stile &
2 per Intermediate Stile)
NOTE: 3 Screws Required at
Intermediate Hinge Location

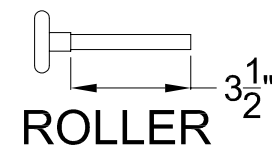


FLAG BRACKET

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)

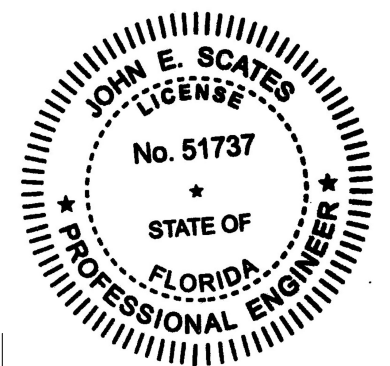
DETAIL H



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

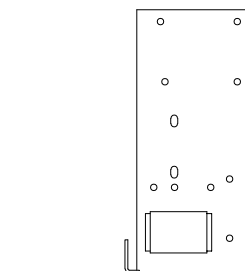
IMPACT RESISTANT

FL #27613.8

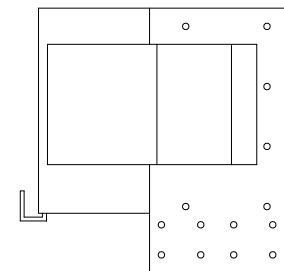


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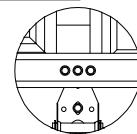
COMMERCIAL HEAVY DUTY
For Standard, High &
Vertical Lift With 3" Track
and Double End Stiles



COMMERCIAL HEAVY DUTY
For Low Headroom With
3" Track and Double
End Stiles

ALTERNATE BOTTOM BRACKETS

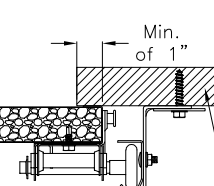
NOTE: The bottom bracket tested (shown in DETAIL C) is the lightest bracket
available.



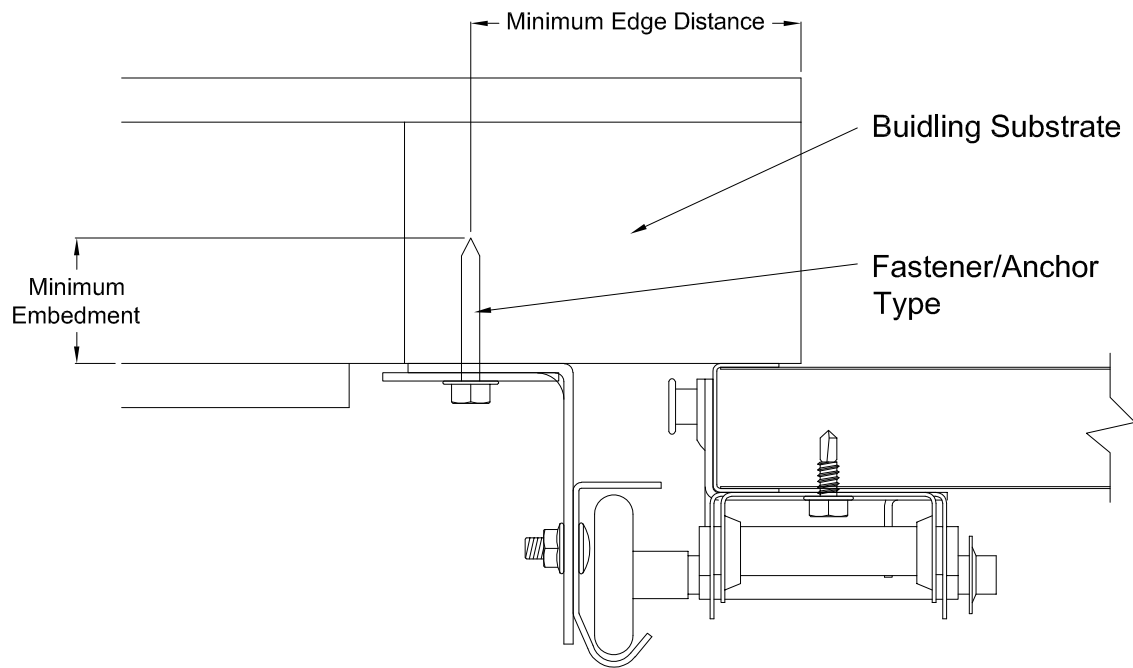
BOLT & WASHER
5/16" X 1 5/8" Lag Bolt & 2" O.D.
x 7/16" I.D. Flat Washer
NOTE: Jamb bracket must be in
direct contact with the 2x6 (No
drywall allowed).
NOTE: The flat washer is not required
for angle mount.

1 3/4" & 2"
POLYURETHANE FILLED DOOR SECTION
Minimal 24 Ga Painted Aluminum Skins

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
jamb to the structure.

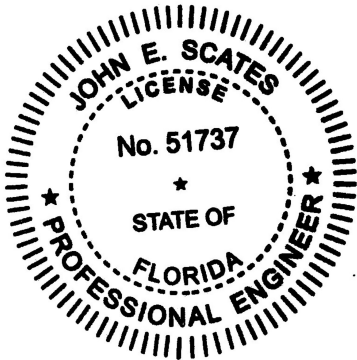


Direct Mounting Detail

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.



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IMPACT RESISTANT

FL #27613.8

 Haas Door. A Nofziger Company	DESCRIPTION: 18' 2" HT 5000 ALUMINUM SERIES W/LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +30.0/-33.9 PSF			
	DRAWING NO.: WL-5000-0218-08-30-34L			REV. I
	DRAWN BY: MVS	DATE DRAWN: 7/27/15	REV. DATE: 8/1/25	
	MODEL(S): See Sheet 3			SHEET: 4 OF 4

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320 Sycamore
Wauseon, Ohio 43567
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