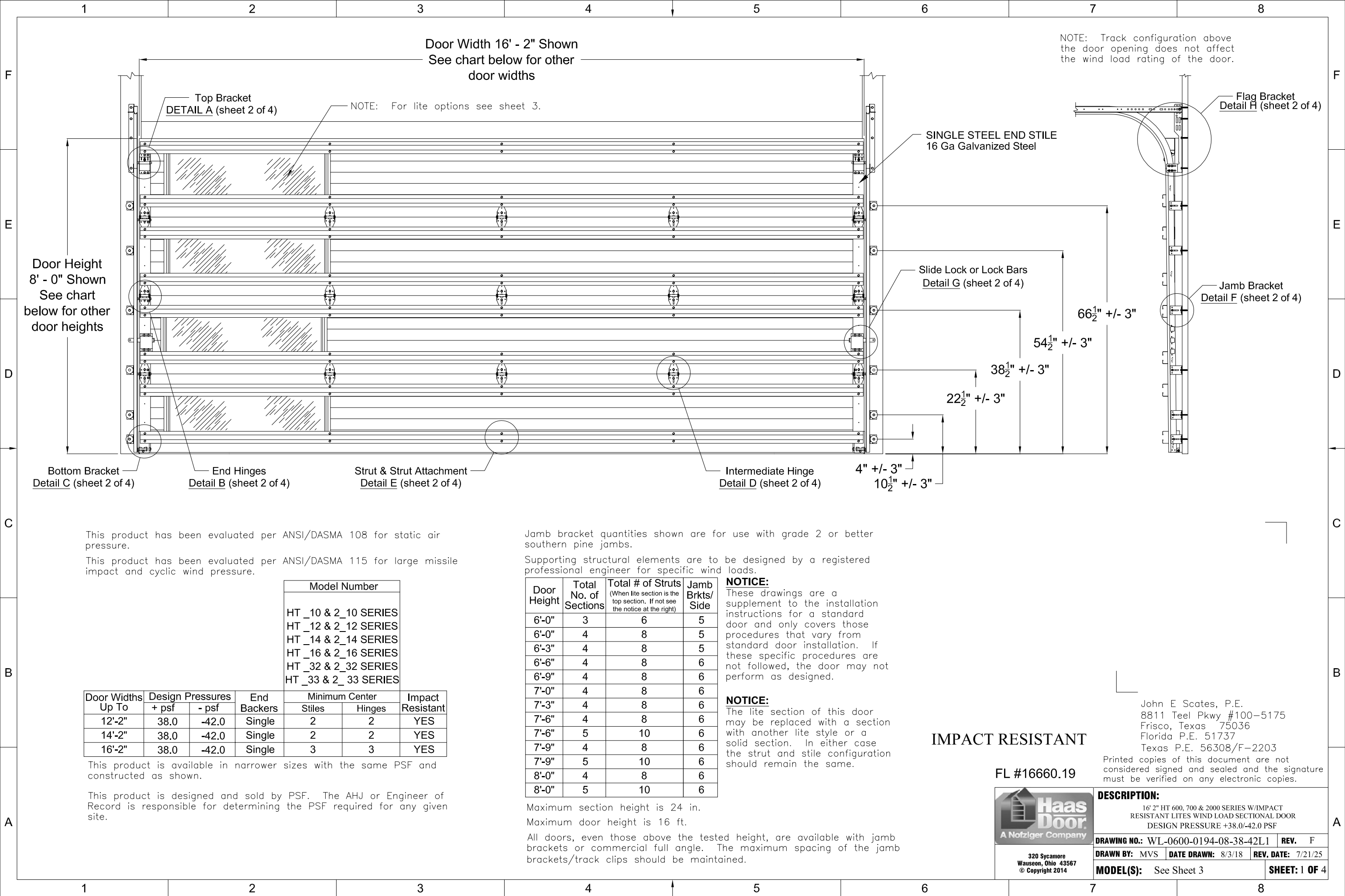
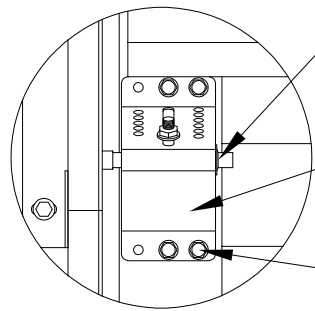




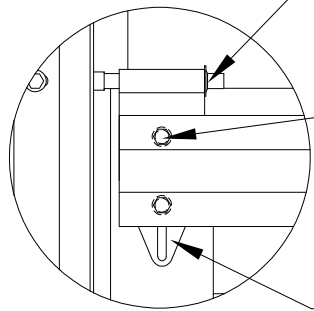


PUSH NUT
7/16"
See DETAIL K for push nut
placement.

ADJUSTABLE TOP FIXTURE
12 Ga

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

DETAIL A

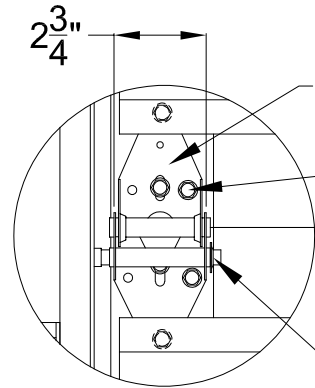


PUSH NUT
7/16"
See DETAIL K for push nut
placement.

TEK SCREW
1/4" X 3/4" Hex Washer Head
Self Drilling (2 per Bracket)
(Through the strut and the low
headroom top bracket)

LOW HEADROOM TOP
BRACKET

**LOW HEADROOM
TOP BRACKET**

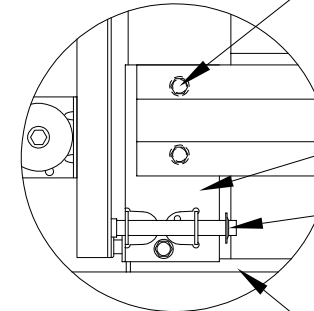


END HINGE
14 Ga Minimum Galvanized Steel

TEK SCREW
1/4" X 3/4" Hex Washer Head
Self Drilling (6 per Hinge)
(One each through the strut
and the top and bottom of
the end hinge)

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

DETAIL B



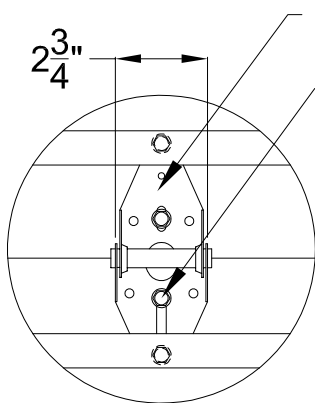
TEK SCREW
1/4" X 3/4" Hex Washer
Head Self Drilling (3 per
Bottom Bracket)
(Two through the strut and
and the bottom bracket)

BOTTOM BRACKET
13 Ga Galvanized Steel

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

BOTTOM SEAL

DETAIL C

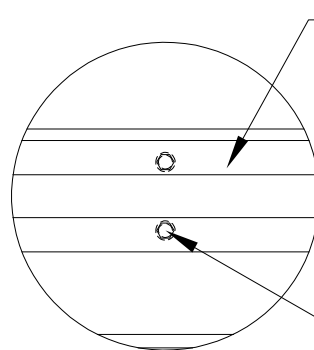


INTERMEDIATE HINGE
18 Ga Minimum Galvanized Steel

TEK SCREW
1/4" X 3/4" Hex
Washer Head Self
Drilling
(4 per Hinge)
(One each through
the strut and the top
and bottom of the
intermediate hinge)

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

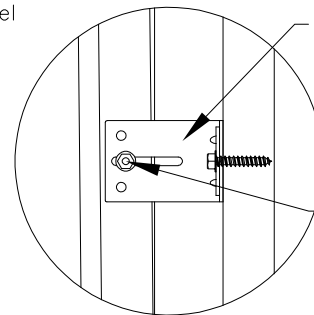
DETAIL D



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

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

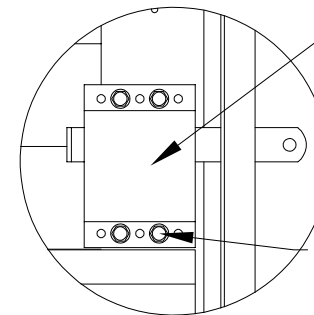
DETAIL E



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)

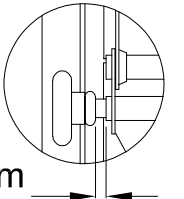
DETAIL F



SLIDE LOCK or
LOCK BARS

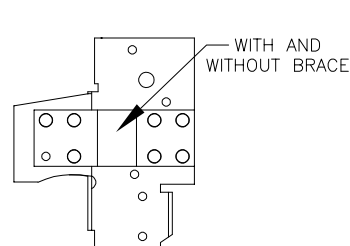
TEK SCREW
1/4" X 3/4" Hex Washer
Head Self Drilling (4 per
Slide Lock)

DETAIL G

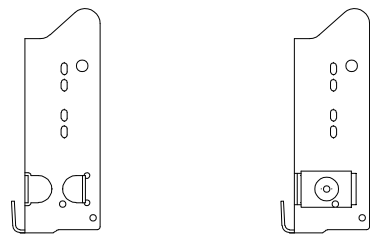


Maximum
1/2"
DETAIL K

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.



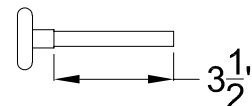
RESIDENTIAL & LIGHT
COMMERCIAL
For Low Headroom
With 2" Track and
Single End Stiles



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

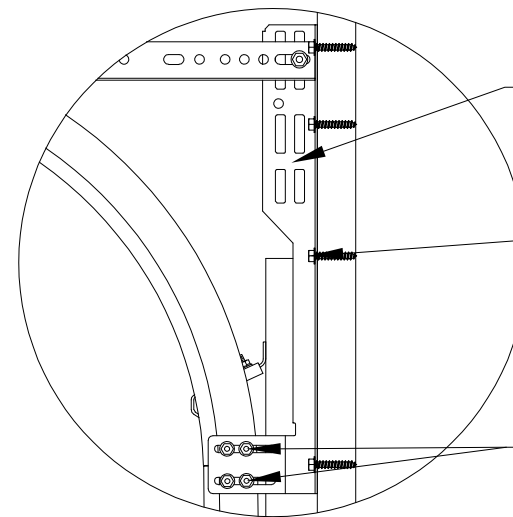


COMMERCIAL
For Standard, High
& Vertical Lift
With 3" Track and
Single End Stiles



ROLLER

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



FLAG BRACKET

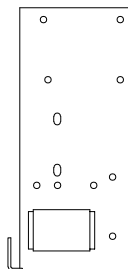
BOLT
5/16 X 1 5/8" Lag Bolt
(4 per Flag Bracket).

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

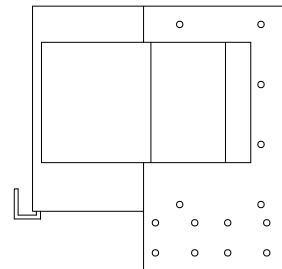
DETAIL H

NOTE: Details on some views omitted
for clarity.

Double end stiles and end
hardware may be provided on
wider or heavier doors.



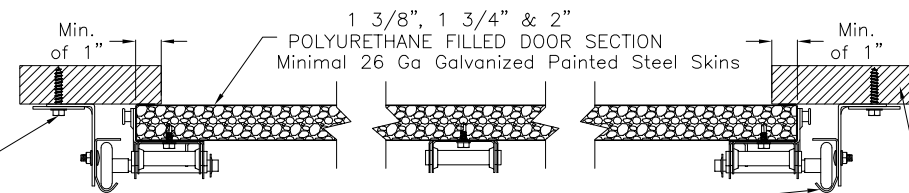
COMMERCIAL HEAVY DUTY
For Standard, High &
Vertical Lift With 3" Track
and Double End Stiles



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.

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.

IMPACT RESISTANT

FL #16660.19



320 Sycamore
Wauseon, Ohio 43567
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DESCRIPTION: 16' 2" HT 600, 700 & 2000 SERIES W/IMPACT RESISTANT LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +38.0/-42.0 PSF			
DRAWING NO.: WL-0600-0194-08-38-42L1	REV.: F		
DRAWN BY: MVS	DATE DRAWN: 8/3/18	REV. DATE: 7/21/25	
MODEL(S): See Sheet 3	SHEET: 2 OF 4		

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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considered signed and sealed and the signature
must be verified on any electronic copies.



NOTE: ALL LITES CONSIST OF INSIDE AND OUTSIDE ALUMINUM
FRAMES AND A POLYCARBONATE INSERT WITH MACHINED
GROOVES.

NOTE: THE LITE LOCATIONS BELOW ARE STANDARD FOR EACH LITE SIZE. THE LITES MAY BE LOCATED IN OTHER POSITIONS IN THE SECTIONS BUT THE NUMBER PER SECTION CANNOT BE MORE THAN SHOWN.

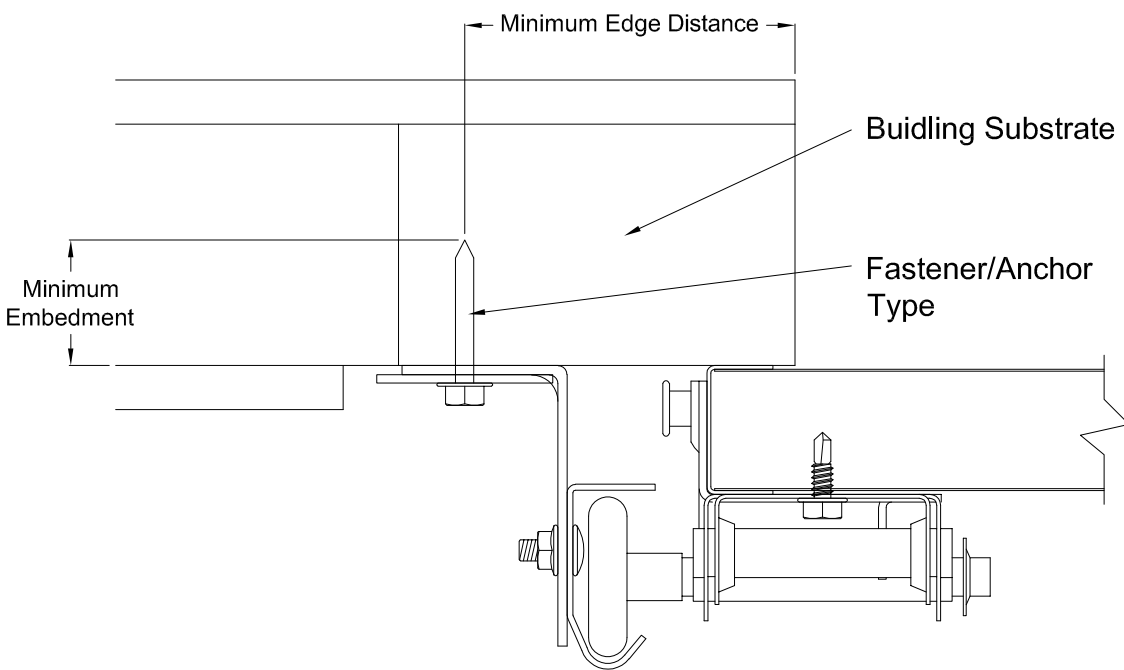


FL #16660.19

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

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

 Haas Door. A Nofziger Company	DESCRIPTION: 16' 2" HT 600, 700 & 2000 SERIES W/IMPACT RESISTANT LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +38.0/-42.0 PSF		
	DRAWING NO.: WL-0600-0194-08-38-42L1		REV. F
	DRAWN BY: MVS	DATE DRAWN: 8/3/18	REV. DATE: 7/21/25
	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.

IMPACT RESISTANT

FL #16660.19



320 Sycamore
Wauseon, Ohio 43567
© Copyright 2014

DESCRIPTION:
16' 2" HT 600, 700 & 2000 SERIES W/IMPACT
RESISTANT LITES WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +38.0/-42.0 PSF

DRAWING NO.: WL-0600-0194-08-38-42L1	REV. F	
DRAWN BY: MVS	DATE DRAWN: 8/3/18	REV. DATE: 7/21/25
MODEL(S): See Sheet 3		SHEET: 4 OF 4

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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