

This product has been tested per TAS202 for static air pressure.
 This product has been tested per TAS201/203 for large missile impact and cyclic wind pressure.

Jamb bracket quantities shown are for use with grade 2 or better southern pine jambs.
 Supporting structural element designs are to be the responsibility of the professional of record for the building or structure for the loads listed on this drawing.

Door Widths Up To	Design Pressures + psf	Design Pressures - psf	End Stiles	Model Number								Impact Resistant
				Minimum Center Stiles		Minimum Center Hinges		Minimum Center Stiles		Minimum Center Hinges		
18'-2"	45.0	-50.0	Double	7	3	7	3	7	3	7	3	YES

Door Height	Total No. of Sections	Total # of Struts	Strut Configuration	Jamb Brkts/Side
6'-0"	3	5	SEE SHEET 3	5
6'-0"	4	6		5
6'-3"	4	6		5
6'-6"	4	6		6
6'-9"	4	6		6
7'-0"	4	6		6
7'-3"	4	6		6
7'-6"	4	6		7
7'-6"	5	8		7
7'-9"	4	6		7
7'-9"	5	8		7
8'-0"	4	6		7
8'-0"	5	8	7	

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.

This product is available in narrower sizes with the same PSF and constructed as shown.
 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.

IMPACT RESISTANT
 COMPLIES WITH IBC/IRC 2018
 Professional Engineer seal provided only for verification of wind load construction details.

Maximum section height is 24 in.
 Maximum door height is 20 ft.
 All doors, even those above the tested height, are available with jamb brackets or commercial full angle. The quantity and dimensional location of the jamb brackets/track clips and the jamb mounting shown above should be maintained.

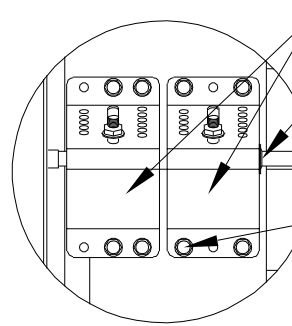
DESCRIPTION:
 18' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +45.0/-50.0 PSF

DRAWING NO.: WLTI-0600-0218-08-45-50 **REV.:** A

DRAWN BY: MVS **DATE DRAWN:** 10/25/18 **REV. DATE:** 3/1/22

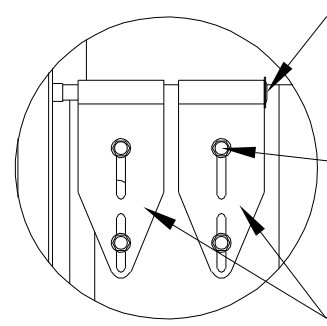
MODEL(S): See Sheet 3 **SHEET: 1 OF 4**

John E. Scates, P.E.
 2560 King Arthur Blvd. Ste 124-54
 Lewisville, Texas 75056
 Texas P.E. 56308/F2203



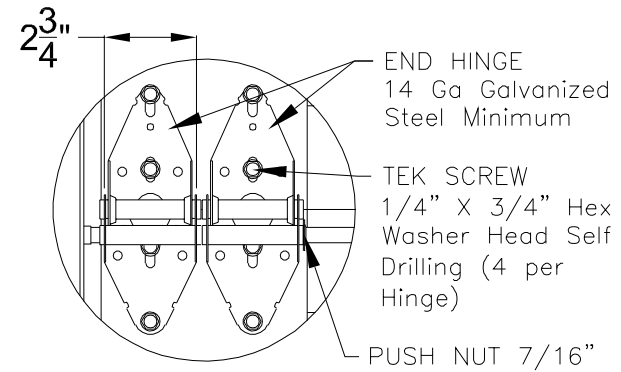
DETAIL A

ADJUSTABLE TOP
FIXTURE 12 Ga
PUSH NUT 7/16"
See DETAIL K for
push nut placement
TEK SCREW
1/4" X 3/4" Hex
Washer Head Self
Drilling (4 per
Bracket)



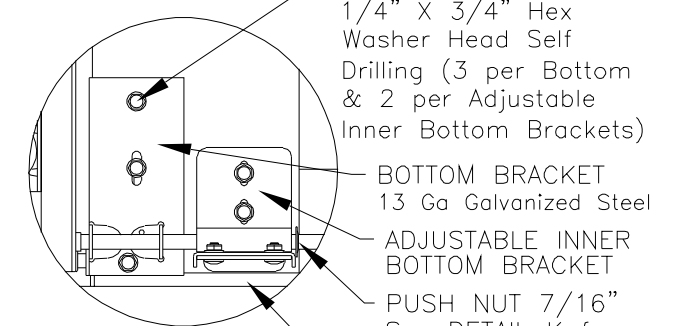
**LOW HEADROOM
TOP BRACKET**

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



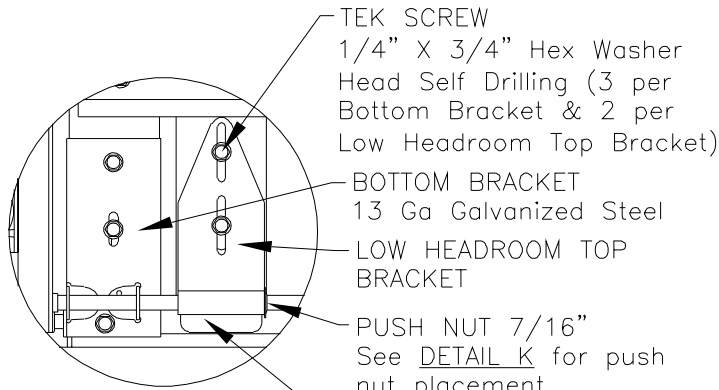
DETAIL B

END HINGE
14 Ga Galvanized
Steel Minimum
TEK SCREW
1/4" X 3/4" Hex
Washer Head Self
Drilling (4 per
Hinge)
PUSH NUT 7/16"
See DETAIL K for
push nut placement



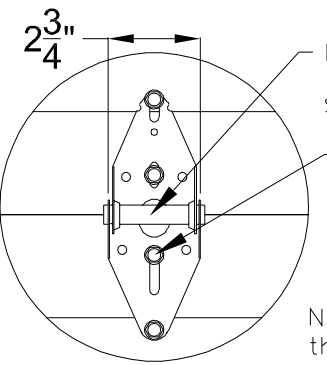
DETAIL C

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



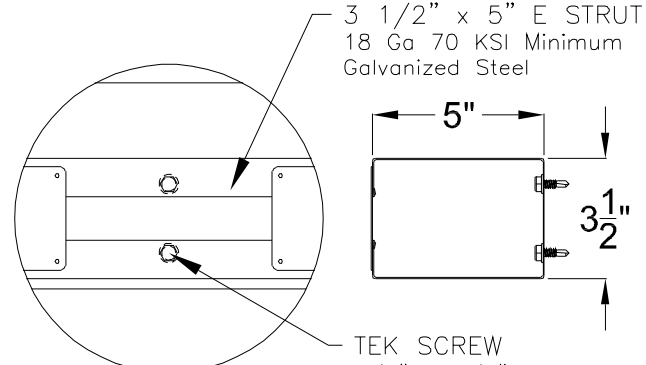
**ALTERNATE
TO DETAIL C**

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



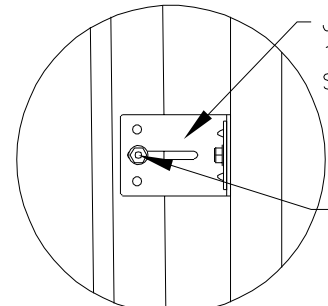
DETAIL D

INTERMEDIATE HINGE
18 or 14 Ga Galvanized
Steel
TEK SCREW
1/4" X 3/4" Hex
Washer Head Self
Drilling (4 per Hinge)
NOTE: The location of
the intermediate hinges
is indicated by the
toggle lock dimples at
the top of each section.



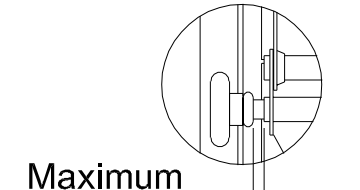
DETAIL E

3 1/2" x 5" E STRUT
18 Ga 70 KSI Minimum
Galvanized Steel
TEK SCREW
1/4" X 3/4" Hex Washer
Head Self Drilling (2 per
End & Intermediate Stiles)



DETAIL F

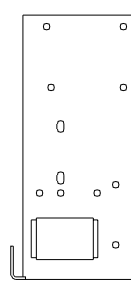
JAMB BRACKET
12 Ga Galvanized
Steel
BOLT & NUT
1/4-20 X 5/8"
Carriage Bolt &
1/4-20 Hex Washer
Nut (1 per Jamb
Bracket)



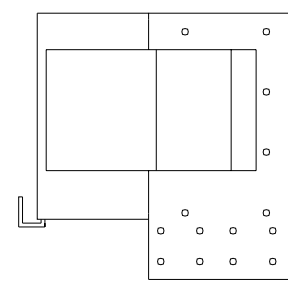
DETAIL K
Maximum
1/2"

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.



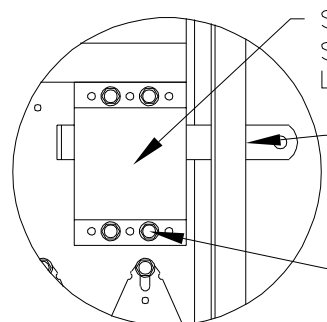
COMMERCIAL HEAVY DUTY
For Standard, High &
Vertical Lift With 3" Track
and Double End Stiles



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

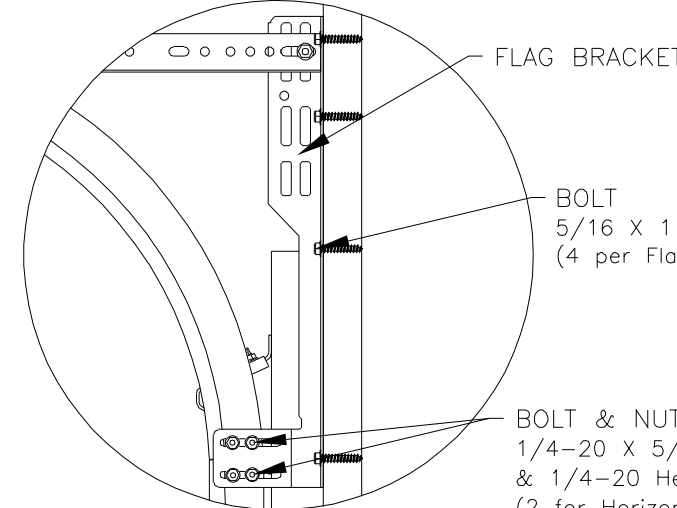
ALTERNATE BOTTOM BRACKETS

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



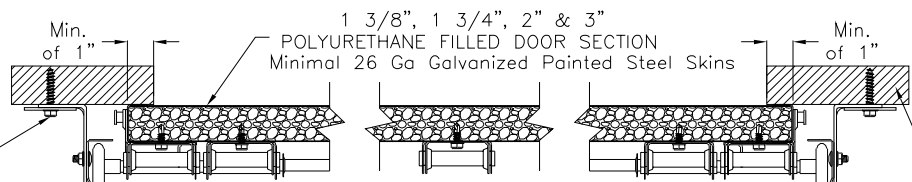
DETAIL G

SLIDE LOCK (One On Each
Side of The Door) or
LOCK BARS.
SLIDE LOCK or LOCK BARS
Engages into the vertical
track on each side of the
door
TEK SCREW
1/4" X 3/4" Hex Washer
Head Self Drilling (4 per
Slide Lock)



DETAIL H

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)

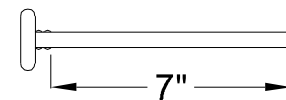


BOLT & WASHER
5/16" X 1 5/8" Lag Bolt & 2" O.D. x 7/16"
I.D. Flat Washer
NOTE: Jamb bracket must be in direct contact
with the 2x6 (No drywall allowed).
NOTE: A 5/8" minimal O.D. flat washer (not
provided) is required for angle mount.

SECTION B-B

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.



ROLLER

(FOR DOUBLE HARDWARE)
2" Diameter Nominal
Eleven Ball Nylon or Ten
Ball Steel with a Minimum
Workable Shaft Length
Shown.

IMPACT RESISTANT

John E. Scates, P.E.
2560 King Arthur Blvd. Ste 124-54
Lewisville, Texas 75056
Texas P.E. 56308/F2203

Professional Engineer seal provided only for
verification of wind load construction details.



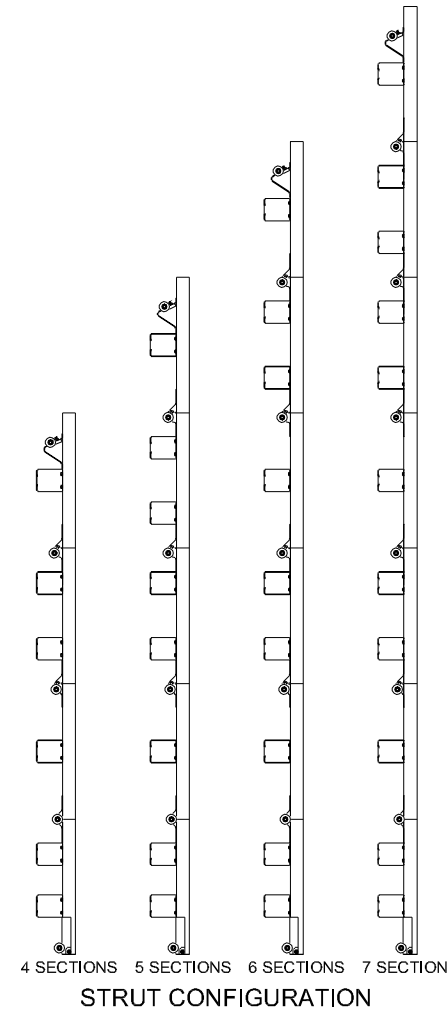
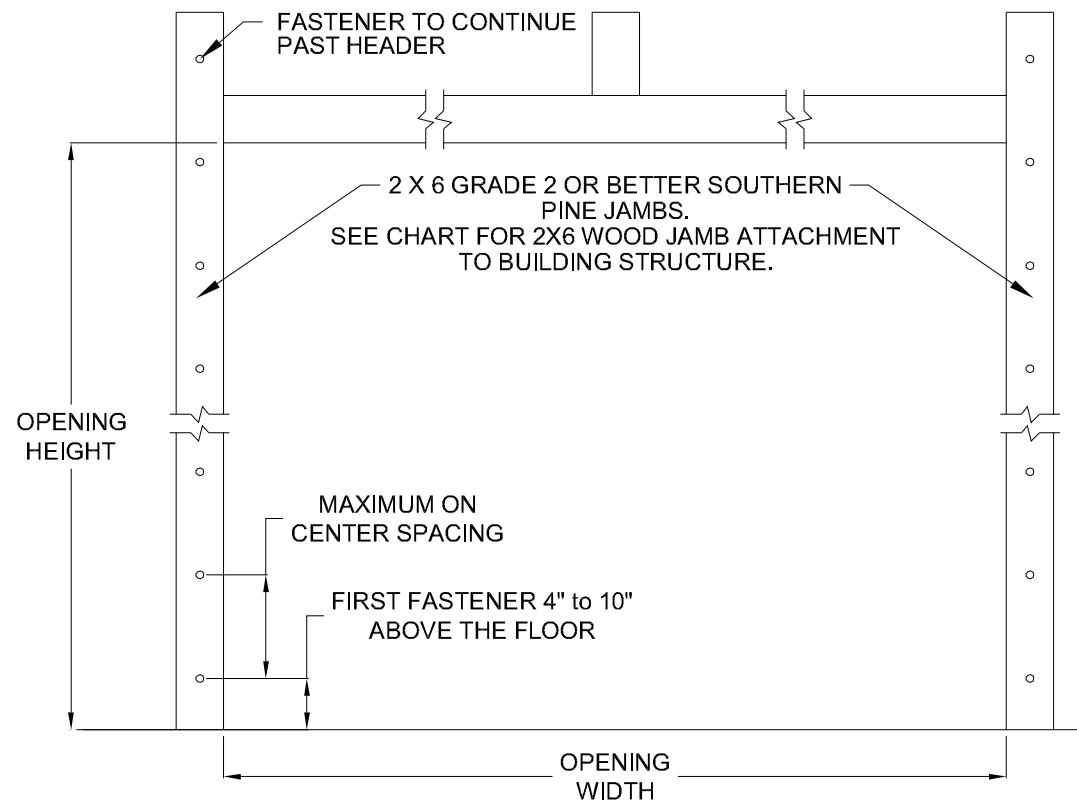
DESCRIPTION:			
18' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +45.0/-50.0 PSF			
DRAWING NO.: WLTl-0600-0218-08-45-50	REV.: A		
DRAWN BY: MVS	DATE DRAWN: 10/25/18	REV. DATE: 3/1/22	
MODEL(S): See Sheet 3	SHEET: 2 OF 4		

320 Sycamore
Wauseon, Ohio 43567
© Copyright 2014

MODEL NUMBERS

MODEL NUMBERS AVAILABLE

- HT_14 & 2_14 SERIES
- HT_16 & 2_16 SERIES
- HT_32 & 2_32 SERIES
- HT_33 & 2_33 SERIES
- HT_10 & 2_10SERIES
- HT_12 & 2_12 SERIES
- HT_60 & 2_60 SERIES
- HT_61 & 2_61 SERIES
- HT_63 & 2_63 SERIES
- HT_64 & 2_64 SERIES
- HT_70 & 2_70 SERIES
- HT_71 & 2_71 SERIES
- HT_72 & 2_72 SERIES
- HT_73 & 2_73 SERIES
- HT_74 & 2_74 SERIES
- HT_80 & 2_80 SERIES
- HT_81 & 2_81 SERIES
- HT_82 & 2_82 SERIES
- HT_90 & 2_90 SERIES
- HT 900 SERIES



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"	16"	551
Southern Pine	3/8" Lag w/ 1 1/8" OD washer	1.50"	1.50"	1.50"	18"	620
Spruce Pine Fir	3/8" Lag w/ 1 1/8" OD washer	1.50"	1.50"	1.50"	14"	482

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

IMPACT RESISTANT

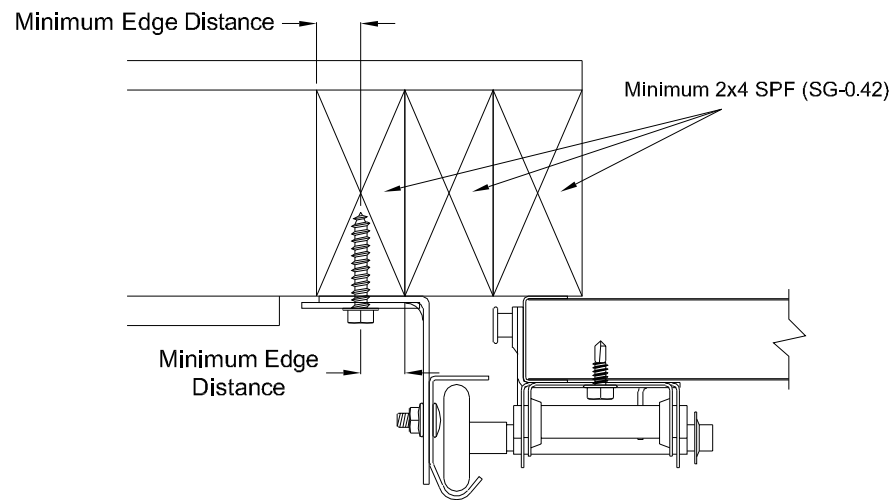
John E. Scates, P.E.
2560 King Arthur Blvd. Ste 124-54
Lewisville, Texas 75056
Texas P.E. 56308/F2203

Professional Engineer seal provided only for verification of wind load construction details.



DESCRIPTION: 18' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +45.0/-50.0 PSF			
DRAWING NO.: WLTI-0600-0218-08-45-50		REV.: A	
DRAWN BY: MVS	DATE DRAWN: 10/25/18	REV. DATE: 3/1/22	
MODEL(S): See Sheet 3			SHEET: 3 OF 4

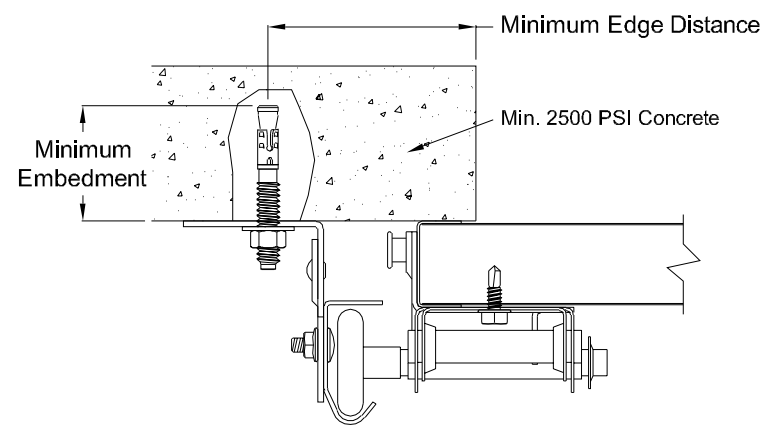
320 Sycamore
Wauseon, Ohio 43567
© Copyright 2014



Direct Wood Mounting Detail

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

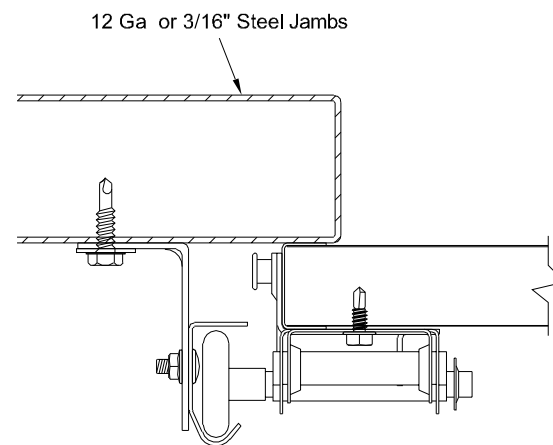
439 lbs. per anchor allowable load
 5/16" Dia. Lag Screw w/1-1/8" O.D. Flat Washer (shall conform to ANSI/ASME standard B18.2.1)
 Minimum Screw Length: Spruce-Pine-Fur (SPF) - 2-1/2"
 Southern Pine - 1-5/8"
 Minimum Edge Distance: 1/2"
 Maximum on Center Spacing: 13"



Direct Concrete Mounting Detail

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

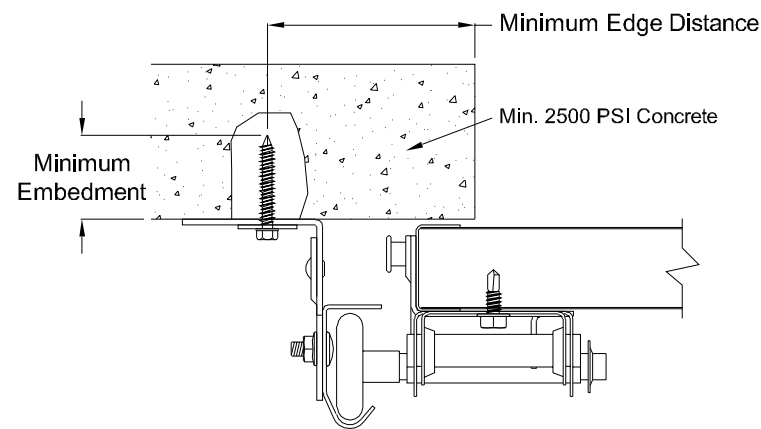
831 lbs. per anchor allowable load
 3/8" Dia. Ankr-Tite CCAT w/1-1/8" O.D. Flat Washer (by Wej-It Fastening Systems)
 Minimum Embedment: 2-5/8"
 Minimum Edge Distance: 2-1/2"
 Minimum on Center Spacing: 6"
 Maximum on Center Spacing: 24"



Direct Steel Mounting Detail

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

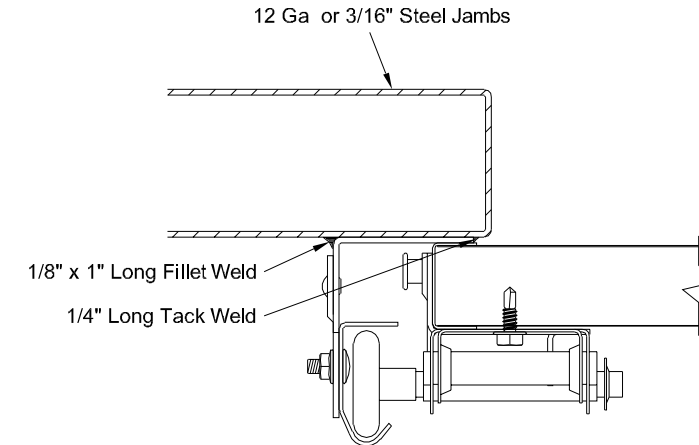
232 lbs. per anchor allowable load - 12 Ga Ste569el
 lbs. per anchor allowable load - 3/16" Ga Steel
 5/16"-12 Tek Self-Drilling Screw w/9/16" O.D. Flat Washer
 12 Ga Maximum on Center Spacing: 7"
 3/16" Maximum on Center Spacing: 17"



Direct Concrete Mounting Detail

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

562 lbs. per anchor allowable load
 1/4" Dia. Concrete Self-Tapping & Wedge Anchor w/1" O.D. Flat Washer (Includes Tapcon+ (by ITW), Wedge-Bolt+ (by Powers Fasteners) & Red Head TruBolt wedge anchor (by ITW))
 Minimum Embedment: 2"
 Minimum Edge Distance: 2-1/2"
 Minimum on Center Spacing: 5"
 Maximum on Center Spacing: 16"



Direct Steel Mounting Detail

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

1272 lbs. per anchor allowable load
 1/8" Nom. x 1" Long Fillet and 1/4" Long Tack Weld (E60xx Electrodes Min.)
 Welds performed by a certified welder or inspected by a certified welding inspector to verify integrity of the welds.
 Maximum on Center Spacing: Apply welds at each roller location not to exceed 24"

IMPACT RESISTANT

John E. Scates, P.E.
 2560 King Arthur Blvd. Ste 124-54
 Lewisville, Texas 75056
 Texas P.E. 56308/F2203

Professional Engineer seal provided only for verification of wind load construction details.



DESCRIPTION: 18' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +45.0/-50.0 PSF			
DRAWING NO.: WLTI-0600-0218-08-45-50	REV.: A		
DRAWN BY: MVS	DATE DRAWN: 10/25/18	REV. DATE: 3/1/22	
MODEL(S): See Sheet 3			SHEET: 4 OF 4

320 Sycamore
 Wauseon, Ohio 43567
 © Copyright 2014