

NOTE: Track configuration above the door opening does not affect the wind load rating of the door.

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.

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.

Model Number	
HT_60 & 2_60 SERIES	HT_10 & 2_10 SERIES
HT_61 & 2_61 SERIES	HT_12 & 2_12 SERIES
HT_63 & 2_63 SERIES	HT_14 & 2_14 SERIES
HT_64 & 2_64 SERIES	HT_16 & 2_16 SERIES
HT_70 & 2_70 SERIES	HT_18 & 2_18 SERIES
HT_71 & 2_71 SERIES	HT_20 & 2_20 SERIES
HT_72 & 2_72 SERIES	HT_22 & 2_22 SERIES
HT_73 & 2_73 SERIES	HT_24 & 2_24 SERIES
HT_74 & 2_74 SERIES	HT_26 & 2_26 SERIES
HT_77 & 2_77 SERIES	HT_28 & 2_28 SERIES
HT_80 & 2_80 SERIES	HT_30 & 2_30 SERIES
HT_81 & 2_81 SERIES	HT_32 & 2_32 SERIES
HT_82 & 2_82 SERIES	HT_33 & 2_33 SERIES
HT_83 & 2_83 SERIES	
HT_84 & 2_84 SERIES	
HT_85 & 2_85 SERIES	
HT_86 & 2_86 SERIES	
HT_87 & 2_87 SERIES	
HT_88 & 2_88 SERIES	
HT_89 & 2_89 SERIES	
HT_90 & 2_90 SERIES	
American Tradition 900/9000 SERIES	

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

**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.

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 2560 King Arthur Blvd. Ste 124-54  
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Door Widths Up To	Design Pressures		End Backers	Maximum Center		Maximum Center		Maximum Center		Impact Resistant
	+ psf	- psf		Stiles	Hinges	Stiles	Hinges	Stiles	Hinges	
8'-2"	48.0	-52.0	Single	1	1	1	1	1	1	YES
9'-2"	48.0	-52.0	Single	1	1	1	1	1	1	YES
10'-2"	48.0	-52.0	Single	2	2	1	1	2	2	YES

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.

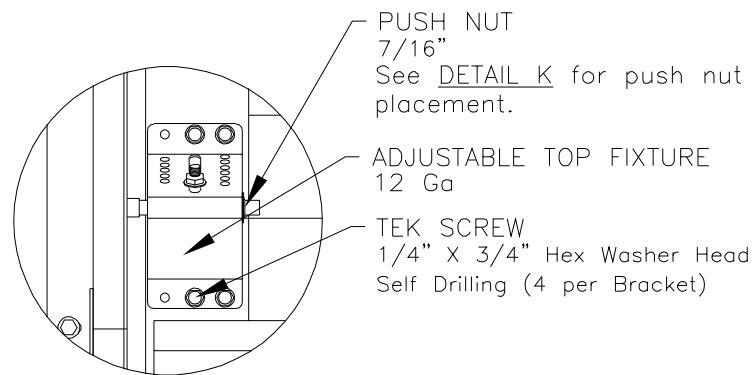
Maximum section height is 24 in.  
 Maximum door height is 20 ft.  
 All doors, even those above the tested height, are available with jamb brackets or commercial full angle. The maximum spacing of the jamb brackets/track clips should be maintained.

**IMPACT RESISTANT**

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



<b>DESCRIPTION:</b> 10' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +48.0/-52.0 PSF			
<b>DRAWING NO.:</b> WLTl-0600-0122-08-48-52	<b>REV.:</b> A		
<b>DRAWN BY:</b> MVS	<b>DATE DRAWN:</b> 10/25/18	<b>REV. DATE:</b> 2/25/22	
<b>MODEL(S):</b> See Sheet 3	<b>SHEET: 1 OF 4</b>		

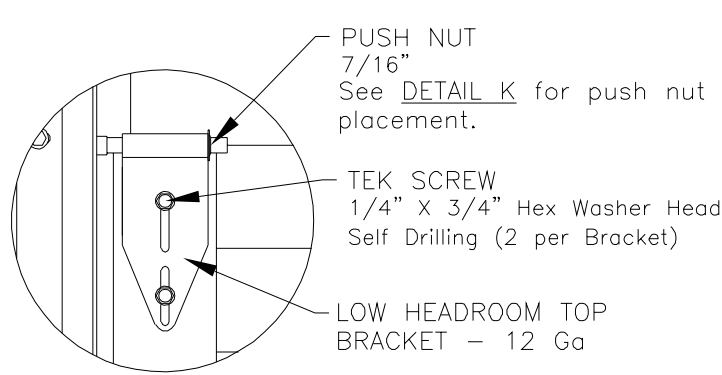


**DETAIL A**

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)

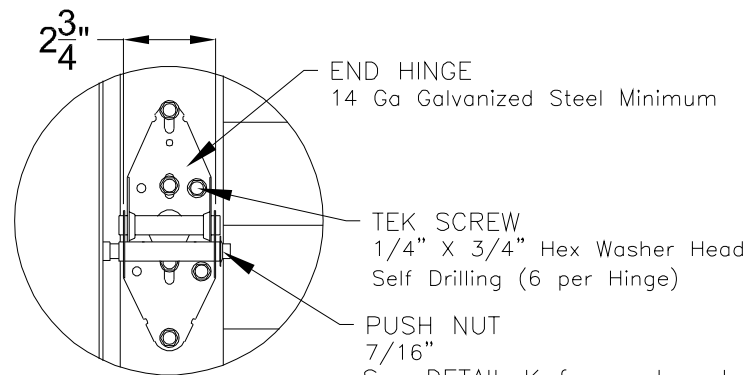


**LOW HEADROOM  
TOP BRACKET**

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



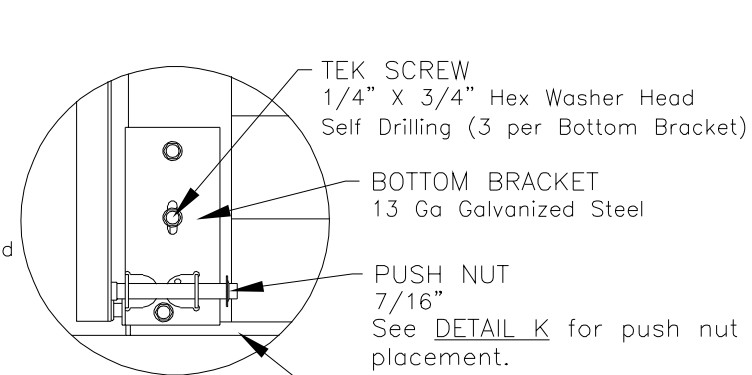
**DETAIL B**

2 3/4"

END HINGE  
14 Ga Galvanized Steel Minimum

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.



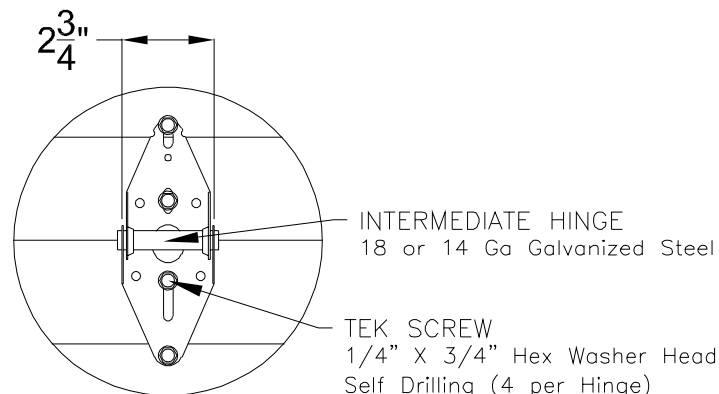
**DETAIL C**

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

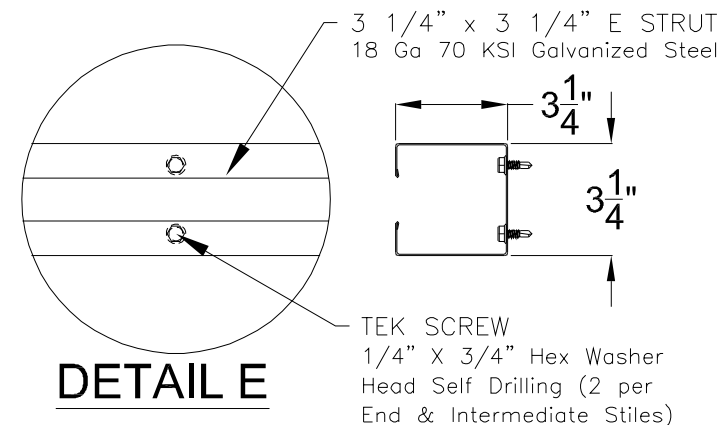


**DETAIL D**

2 3/4"

INTERMEDIATE HINGE  
18 or 14 Ga Galvanized Steel

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



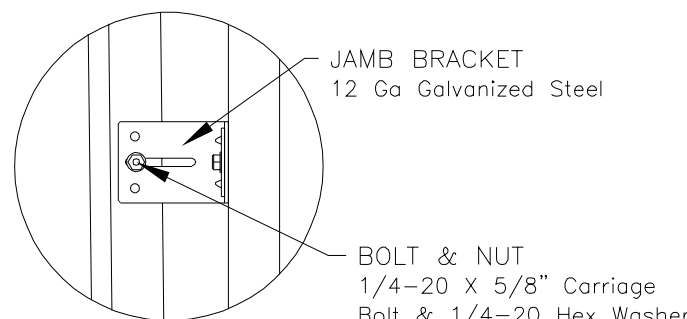
**DETAIL E**

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

3 1/4"

3 1/4"

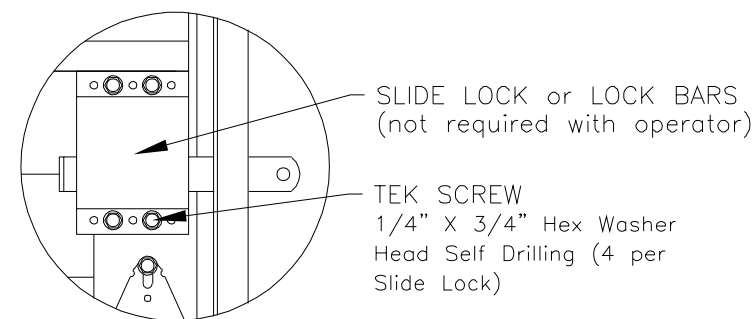
TEK SCREW  
1/4" X 3/4" Hex Washer  
Head Self Drilling (2 per  
End & Intermediate Stiles)



**DETAIL F**

JAMB BRACKET  
12 Ga Galvanized Steel

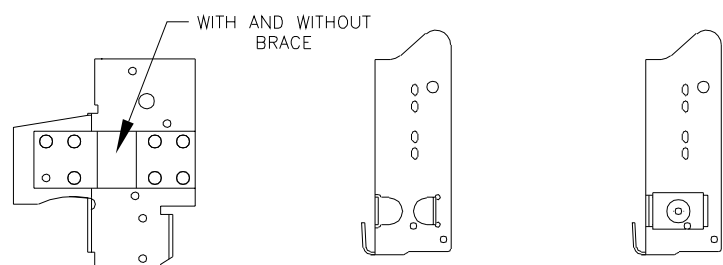
BOLT & NUT  
1/4-20 X 5/8" Carriage  
Bolt & 1/4-20 Hex Washer  
Nut (1 per Jamb Bracket)



**DETAIL G**

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)



WITH AND WITHOUT  
BRACE

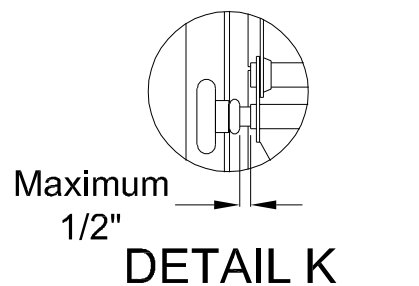
RESIDENTIAL & LIGHT  
COMMERCIAL  
For Low Headroom  
With 2" Track and  
Single End Stiles

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**

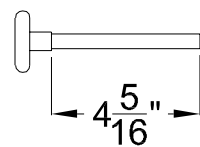
NOTE: The bottom bracket tested (shown in DETAIL C) is the lightest bracket available.



**DETAIL K**

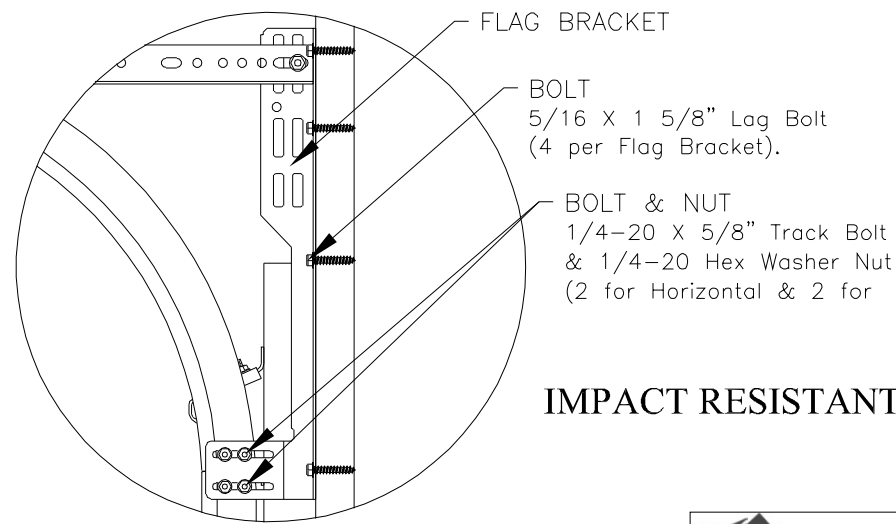
Maximum  
1/2"

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.



**ROLLER**

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



**DETAIL H**

FLAG BRACKET

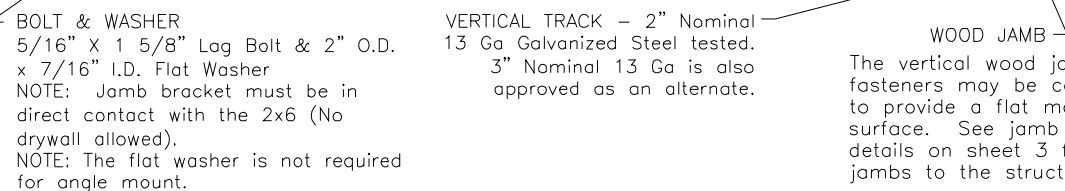
BOLT  
5/16 X 1 5/8" Lag Bolt  
(4 per Flag Bracket).

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

**IMPACT RESISTANT**

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



1 3/8", 1 3/4", 2" & 3"

Min. of 1"

POLYURETHANE FILLED DOOR SECTION  
Minimal 26 Ga Galvanized Painted Steel Skins

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  
jamb to the structure.

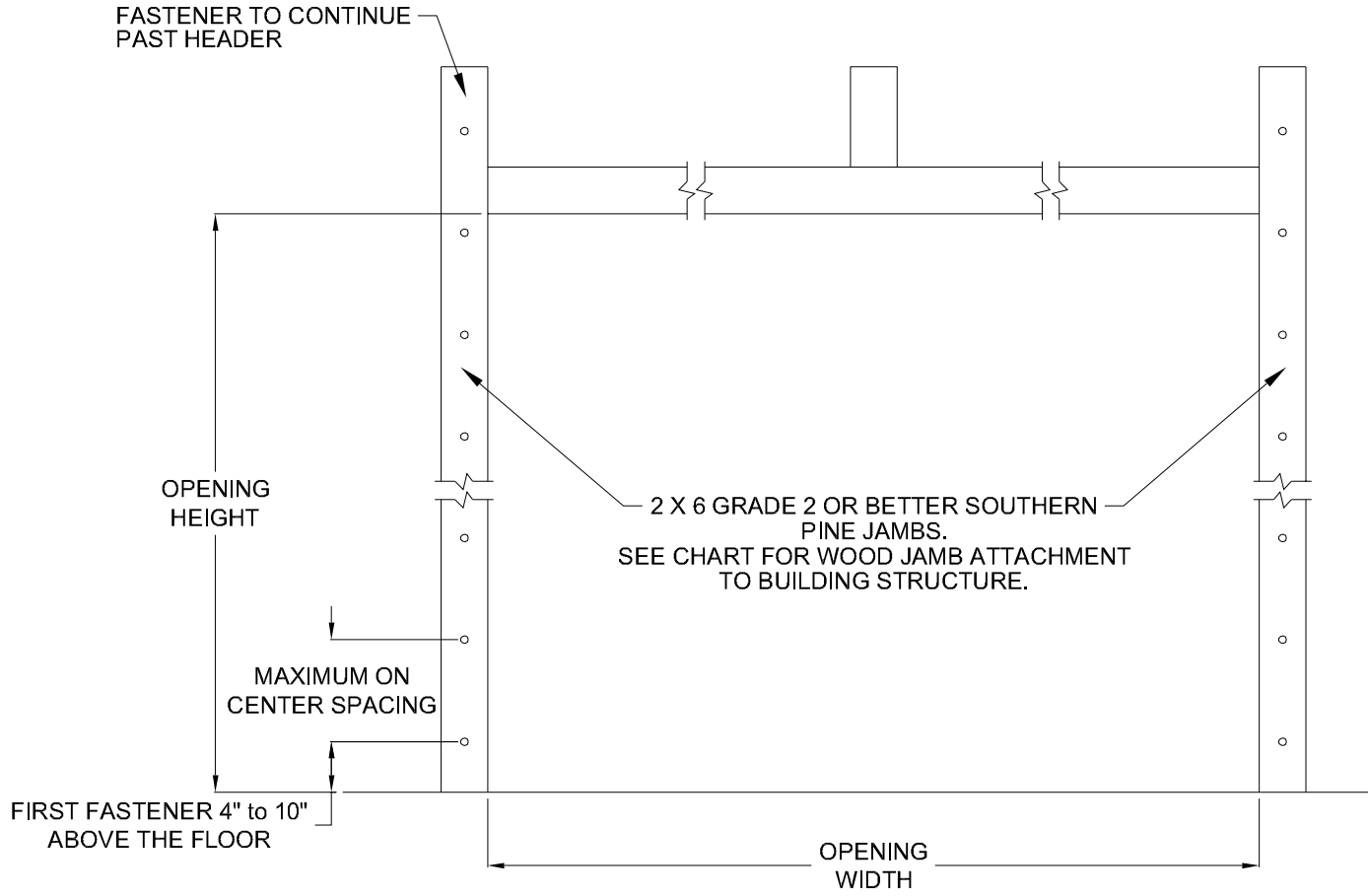
**Haas Door**  
A Nofziger Company

320 Sycamore  
Wauseon, Ohio 43567  
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<b>DESCRIPTION:</b>			
10' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +48.0/-52.0 PSF			
<b>DRAWING NO.:</b> WLTl-0600-0122-08-48-52	<b>REV.:</b> A		
<b>DRAWN BY:</b> MVS	<b>DATE DRAWN:</b> 10/25/18	<b>REV. DATE:</b> 2/25/22	
<b>MODEL(S):</b> See Sheet 3	<b>SHEET: 2 OF 4</b>		

# 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
American Tradition 900/9000 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"	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"	23"	482

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

## IMPACT RESISTANT

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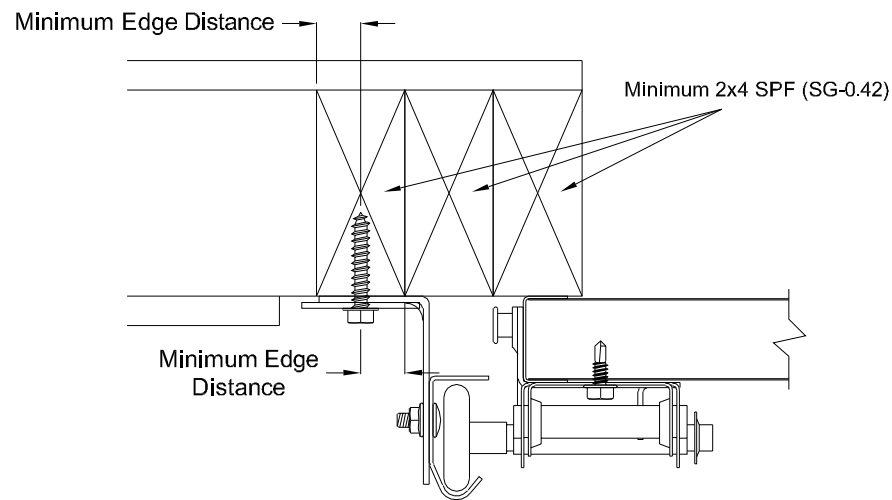
**DESCRIPTION:**  
10' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +48.0/-52.0 PSF

**DRAWING NO.:** WLTI-0600-0122-08-48-52 **REV.:** A

**DRAWN BY:** MVS **DATE DRAWN:** 10/25/18 **REV. DATE:** 2/25/22

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

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Wauseon, Ohio 43567  
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### Direct Wood Mounting Detail

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

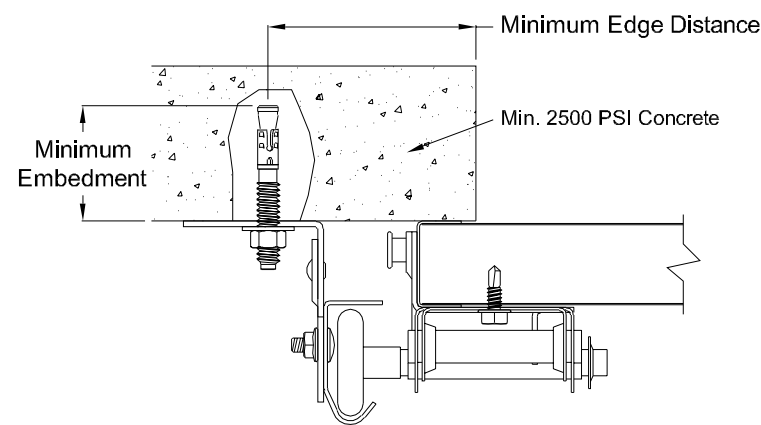
439 lbs. per anchor allowable load

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: 22"



### 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

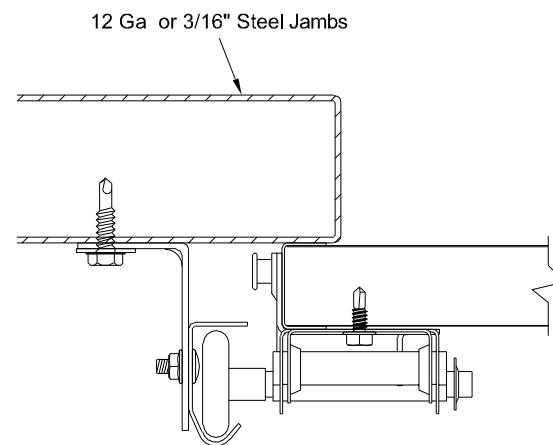
3/8" Dia. Ankr-Tite CCAT w/1-1/8" O.D. Flat Washer (by Wej-It Fastening Systems)

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

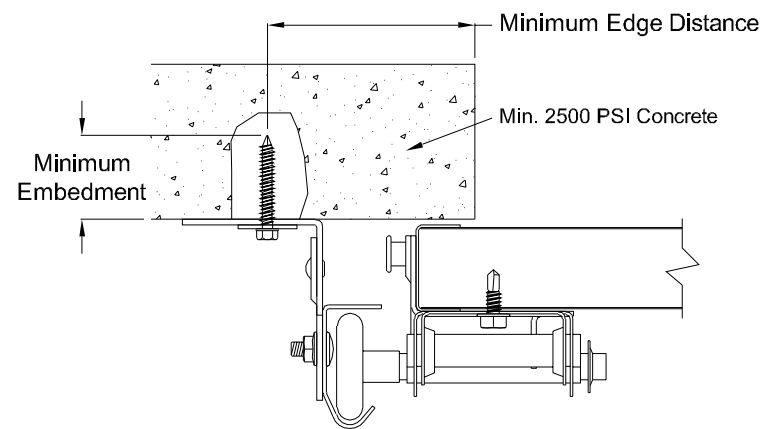
Bracket Mount Shown, Reverse and Continuous Angle Mount Also Approved As Alternate.

232 lbs. per anchor allowable load - 12 Ga Steel

569 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: 11"

3/16" Maximum on Center Spacing: 24"



### 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

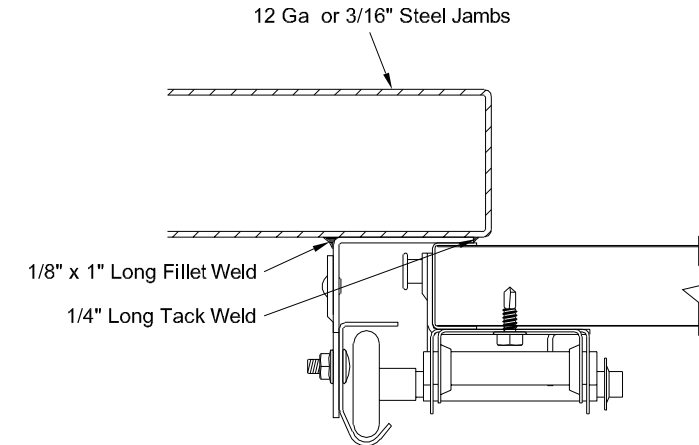
TruBolt wedge anchor (by ITW))

Minimum Embedment: 2"

Minimum Edge Distance: 2-1/2"

Minimum on Center Spacing: 5"

Maximum on Center Spacing: 24"



### 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**

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**DESCRIPTION:**  
10' 2" HT 600, 700, 2000, 800 & 900/9000 AMERICAN TRADITION SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +48.0/-52.0 PSF

**DRAWING NO.:** WLTI-0600-0122-08-48-52 **REV.:** A

**DRAWN BY:** MVS **DATE DRAWN:** 10/25/18 **REV. DATE:** 2/25/22

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

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