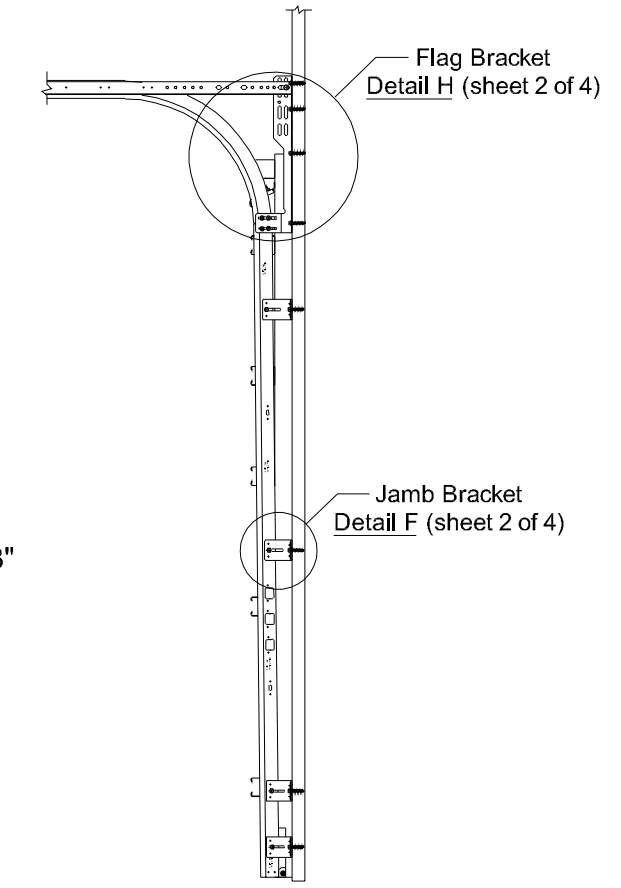


NOTE: Track configuration above the door opening does not affect the wind load rating of the door.



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_61 & 2_61 SERIES	
		HT_63 & 2_63 SERIES	
HT_68 & 2_68 SERIES	HT_64 & 2_64 SERIES		
HT_69 & 2_69 SERIES	HT_67 & 2_67 SERIES		
HT_78 & 2_78 SERIES	HT_70 & 2_70 SERIES		
HT_79 & 2_79 SERIES	HT_71 & 2_71 SERIES		
HT_80 & 2_80 SERIES	HT_72 & 2_72 SERIES		
HT_81 & 2_81 SERIES	HT_73 & 2_73 SERIES		
HT_82 & 2_82 SERIES	HT_74 & 2_74 SERIES		
HT_90 & 2_90 SERIES	HT_87 & 2_87 SERIES	HT_10 & 2_10 SERIES	

Door Widths Up To	Design Pressures		End Backers	Minimum Center		Minimum Center		Minimum Center		Impact Resistant
	+ psf	- psf		Stiles	Hinges	Stiles	Hinges	Stiles	Hinges	
8'-2"	41.1**	-46.4**	Single	1	1	1	1	1	1	YES
9'-2"	41.1**	-46.4**	Single	1	1	1	1	1	1	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.

**** Design pressures for doors with Standard lites are limited to +40.0/-45.0.**

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	4	3
6'-0"	4	5	3
6'-3"	4	5	3
6'-6"	4	5	4
6'-9"	4	5	4
7'-0"	4	5	4
7'-3"	4	5	4
7'-6"	4	5	4
7'-6"	5	6	4
7'-9"	4	5	4
7'-9"	5	6	4
8'-0"	4	5	4
8'-0"	5	6	4

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.

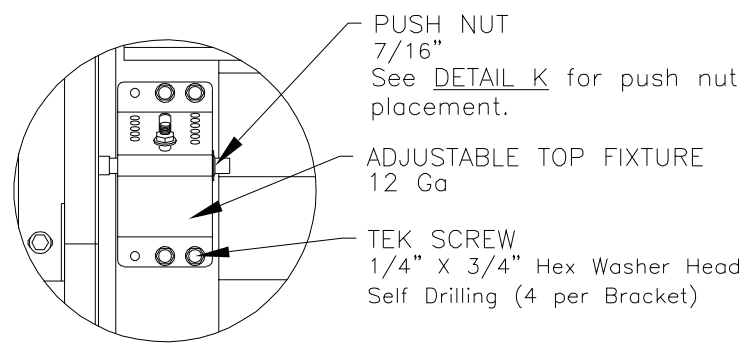
NOTICE:
 These drawings are a supplement to the installation instructions for a standard door and only covers those procedures that vary from standard door installation. If these specific procedures are not followed, the door may not perform as designed.
NOTICE:
 The lite section of this door may be 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 of 4.

IMPACT RESISTANT

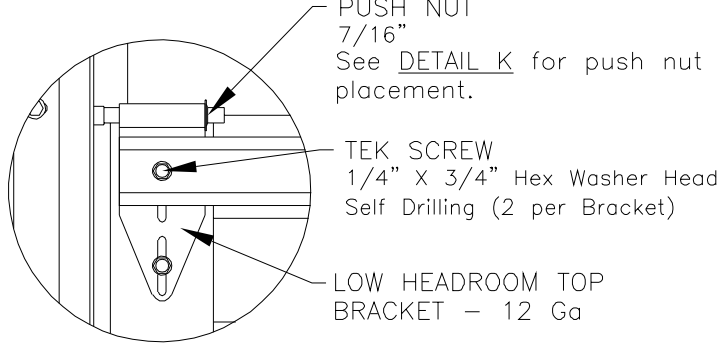
John E. Scates, P.E.
 2560 King Arthur Blvd. Ste 124-54
 Lewisville, Texas 75056
 Texas P.E. 56308/F2203

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

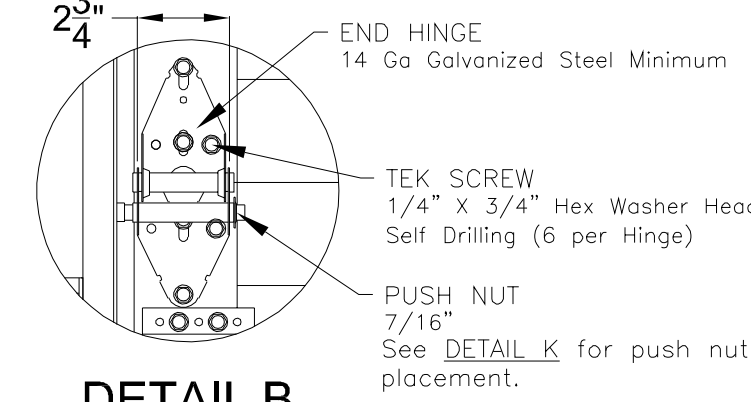
 320 Sycamore Wauseon, Ohio 43567 © Copyright 2014	DESCRIPTION: 9' 2" HT 600, 700 & 2000 SERIES W/IMPACT RESISTANT LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +41.1/-46.4 PSF	
	DRAWING NO.: WLT-0600-0110-08-41-46L	REV.: A
	DRAWN BY: MVS	DATE DRAWN: 10/25/18 REV. DATE: 2/23/22
	MODEL(S): See Sheet 3	SHEET: 1 OF 4



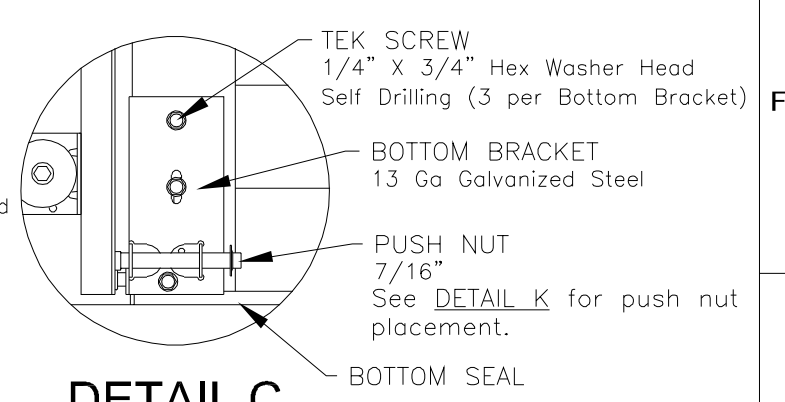
DETAIL A



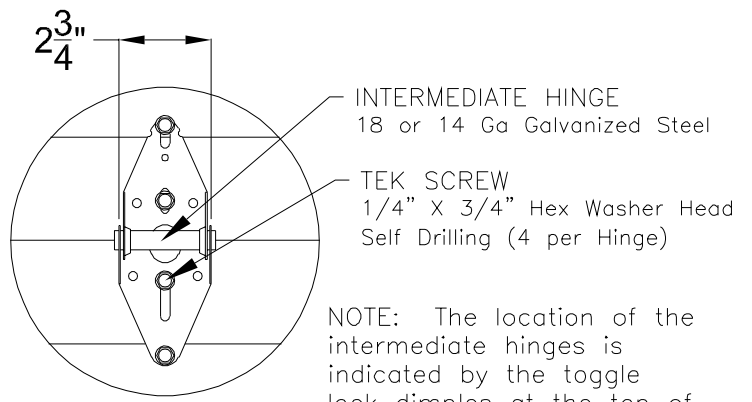
LOW HEADROOM TOP BRACKET



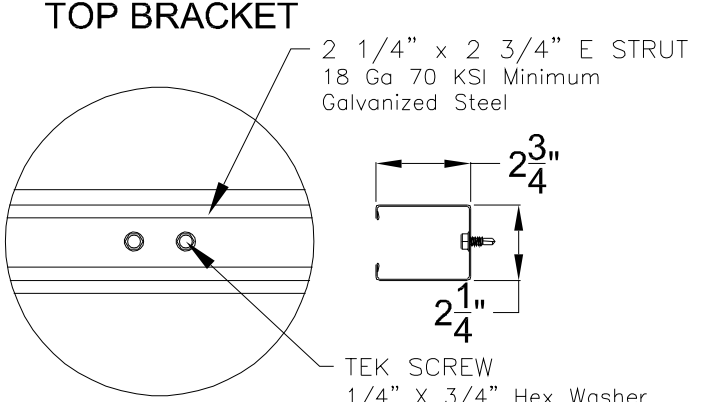
DETAIL B



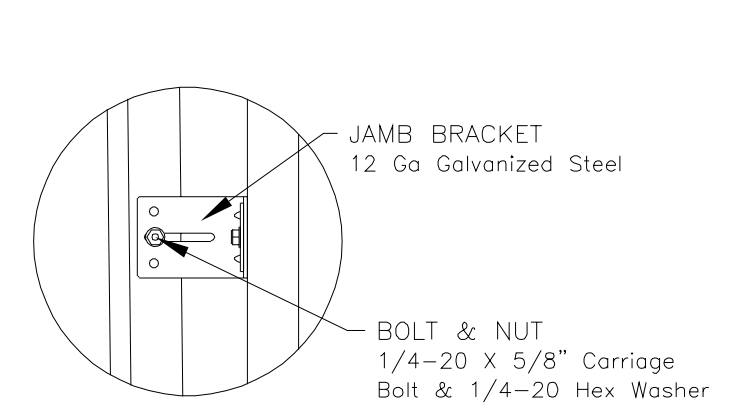
DETAIL C



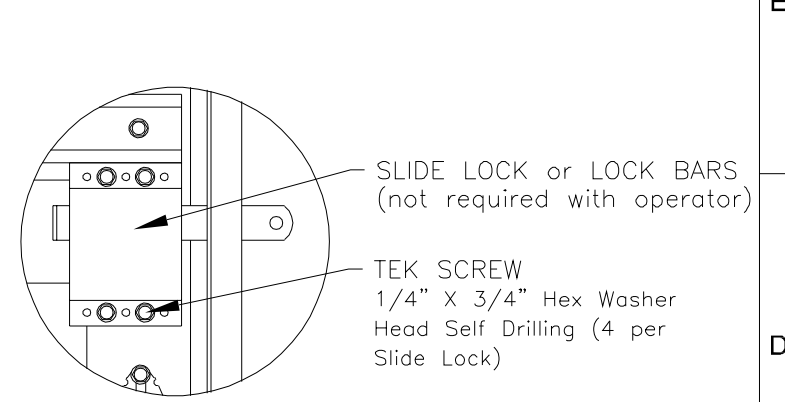
DETAIL D



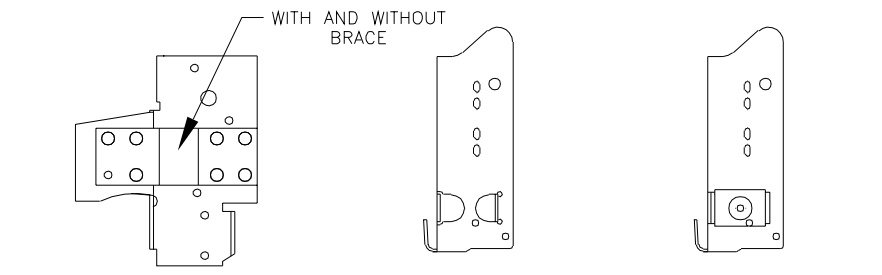
DETAIL E



DETAIL F



DETAIL G



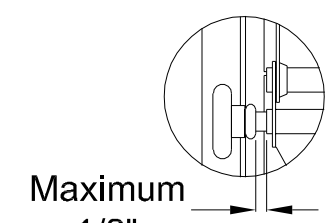
ALTERNATE BOTTOM BRACKETS

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

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

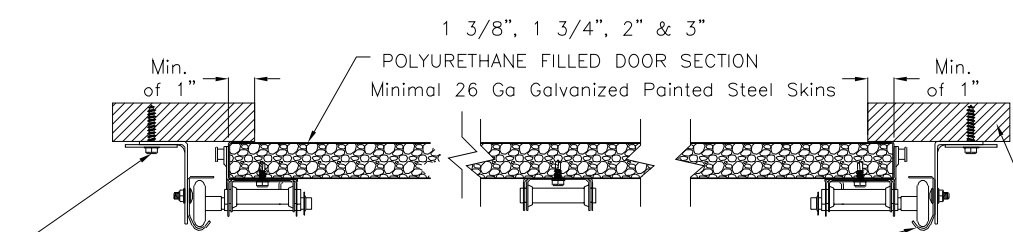
COMMERCIAL For Standard, High & Vertical Lift With 2" Track and Single End Stiles

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



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.

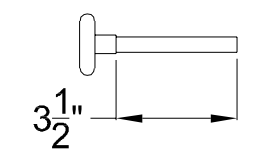


POLYURETHANE FILLED DOOR SECTION
Minimal 26 Ga Galvanized Painted Steel Skins

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.

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

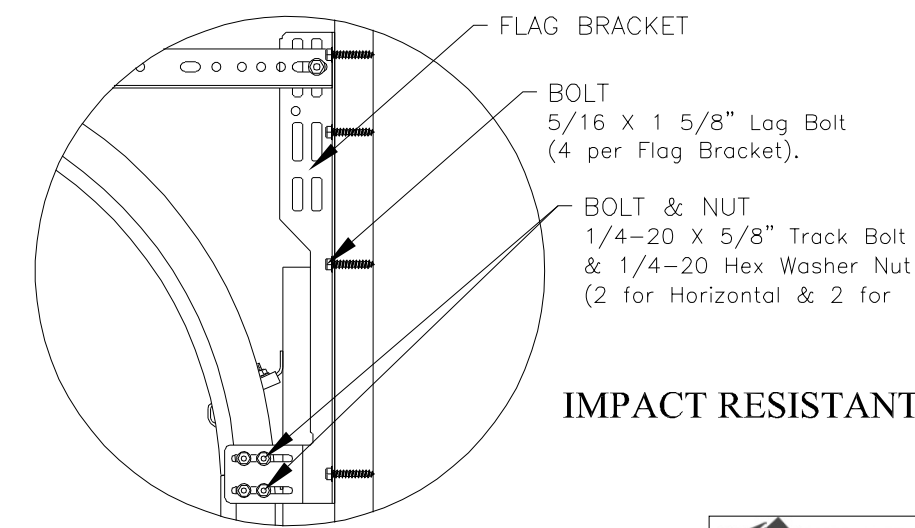
BOLT & WASHER
5/16" X 1 5/8" Lag Bolt & 2" O.D. x 7/16" I.D. Flat Washer
NOTE: Jamb bracket must be in direct contact with the 2x6 (No drywall allowed).
NOTE: The flat washer is not required for angle mount.



ROLLER

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

NOTE: Details on some views omitted for clarity. Double end stiles and end hardware may be provided on wider or heavier doors.



DETAIL H

IMPACT RESISTANT

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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.

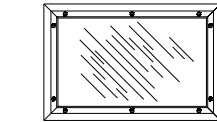
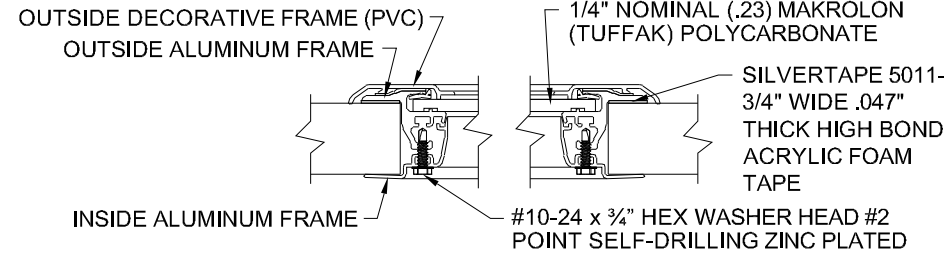
<p>320 Sycamore Wauseon, Ohio 43567 © Copyright 2014</p>	DESCRIPTION:	
	9' 2" HT 600, 700 & 2000 SERIES W/IMPACT RESISTANT LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +41.1/-46.4 PSF	
	DRAWING NO.: WLTl-0600-0110-08-41-46L	REV.: A
	DRAWN BY: MVS	DATE DRAWN: 10/25/18
MODEL(S): See Sheet 3	REV. DATE: 2/23/22	SHEET: 2 OF 4

MODEL NUMBERS AND IMPACT LITE OPTIONS

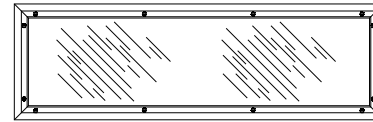
MODEL NUMBERS AVAILABLE	LITE OPTIONS AVAILABLE				
	CARRIAGE HOUSE	RANCH	STANDARD	LARGE COMMERCIAL 24 x 12	SMALL COMMERCIAL 24 x 6
HT_10 & 2_10 SERIES	X	X	X**		
HT_60 & 2_60 SERIES	X				
HT_61 & 2_61 SERIES	X				
HT_63 & 2_63 SERIES	X				
HT_64 & 2_64 SERIES	X				
HT_67 & 2_67 SERIES	X				
HT_68 & 2_68 SERIES	X				
HT_69 & 2_69 SERIES	X				
HT_70 & 2_70 SERIES		X			
HT_71 & 2_71 SERIES		X			
HT_72 & 2_72 SERIES		X			
HT_73 & 2_73 SERIES		X			
HT_74 & 2_74 SERIES		X			
HT_78 & 2_78 SERIES		X			
HT_79 & 2_79 SERIES		X			
HT_80 & 2_80 SERIES			X**		
HT_81 & 2_81 SERIES			X**		
HT_82 & 2_82 SERIES			X**		
HT_87 & 2_87 SERIES			X**		
HT_90 & 2_90 SERIES			X**		
	38 1/2" x 12 1/2"	38 1/2" x 10 1/2"	17 1/2" x 10 1/2"		
DAY LIGHT OPENING (DLO) - WIDE x TALL					

NOTE: IMPACT LITES NOT AVAILABLE IN 800 SERIES DOORS.

** STANDARD LITES ARE ONLY AVAILABLE AT +40.0/-45.0 DESIGN PRESSURES.



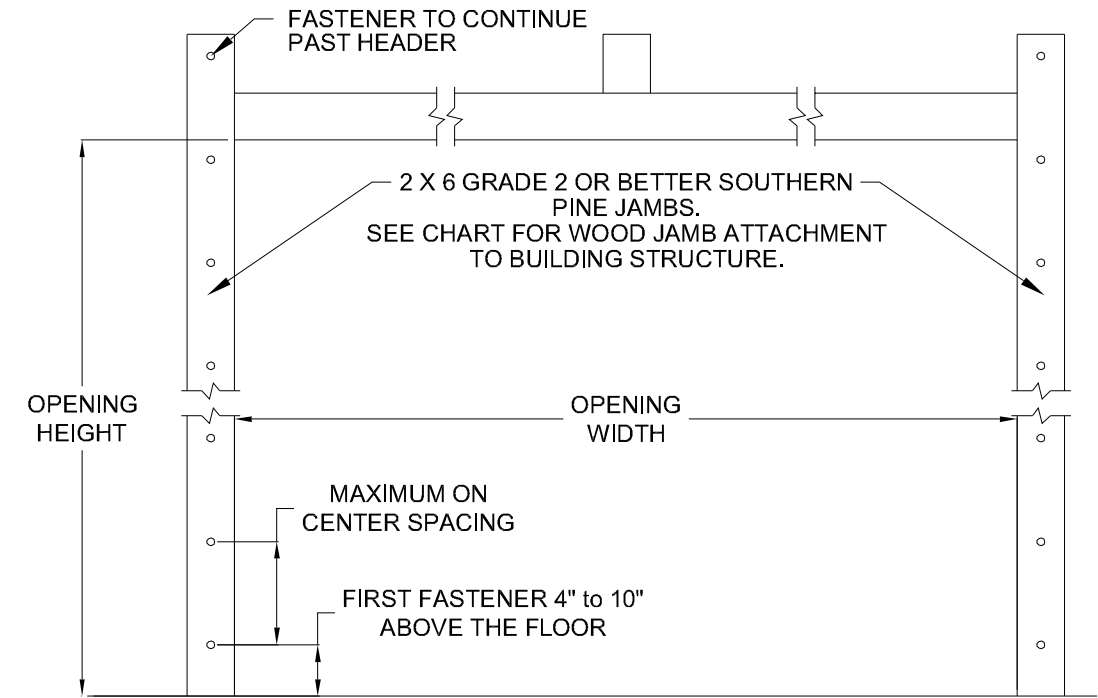
SCREW LOCATION - STANDARD LITE
NOTE: 10 SCREWS USED.



SCREW LOCATION - CARRIAGE HOUSE & RANCH LITES
NOTE: 12 SCREWS USED.

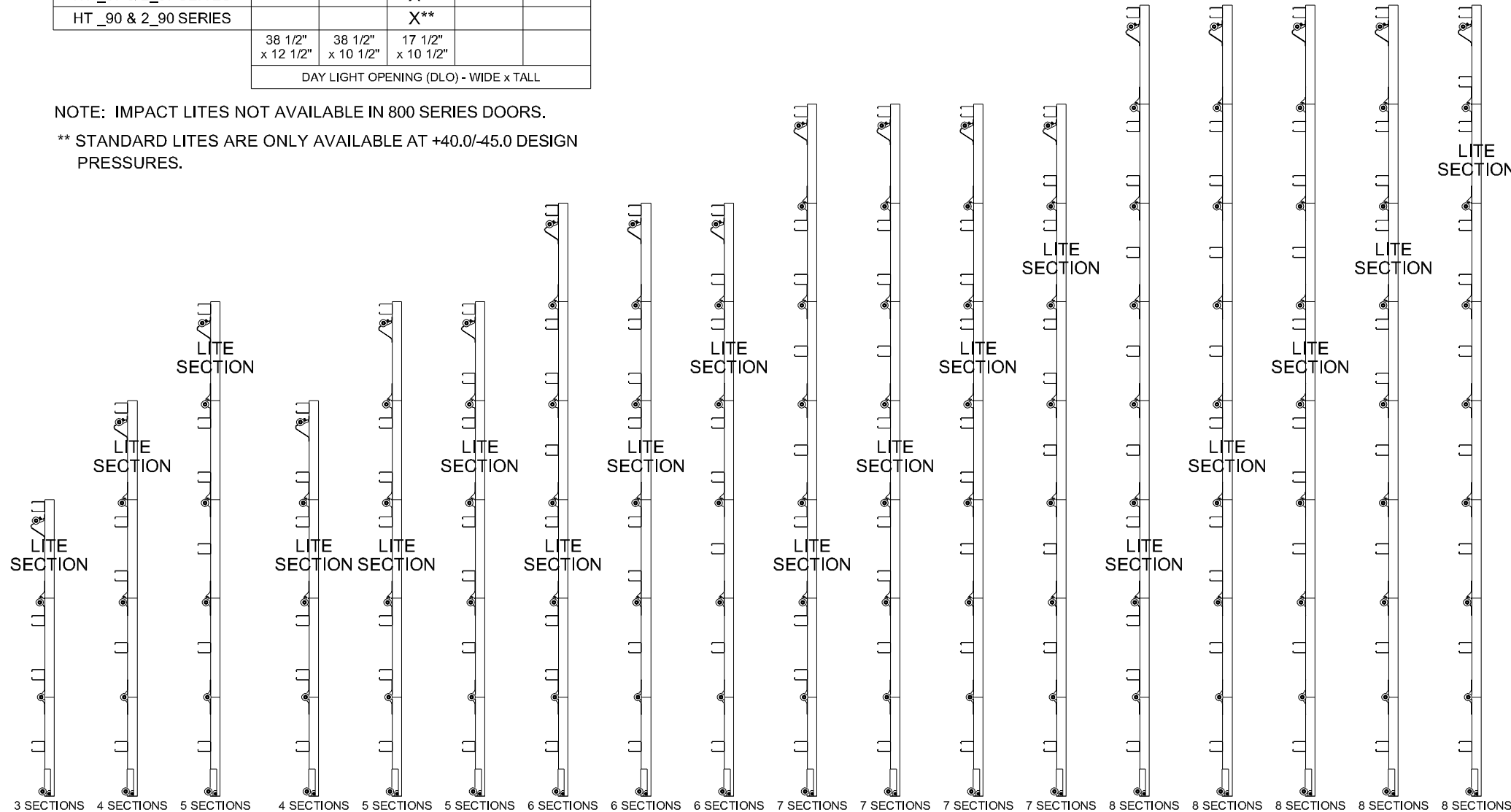
GLAZING DETAIL

NOTE: ALL GLAZING IS IMPACT RESISTANT MAKROLON (TUFFAK) GENERAL PURPOSE OR UV RESISTANT POLYCARBONATE WITH A 1/4" NOMINAL (.23) THICKNESS.



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"	24"	482

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



WITH LITE SECTION AT TOP

WITH LITE SECTION ANYWHERE EXCEPT THE TOP AND BOTTOM SECTION

STRUT CONFIGURATION

IMPACT RESISTANT

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

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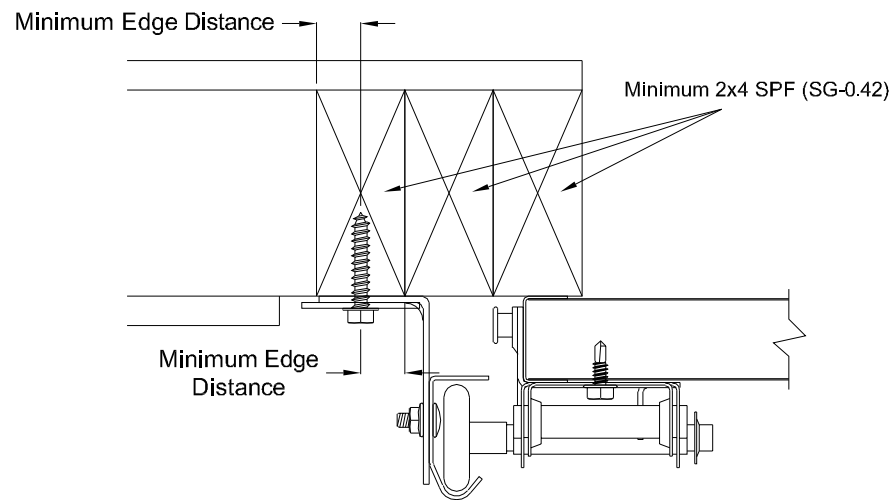
DESCRIPTION:
9' 2" HT 600, 700 & 2000 SERIES W/IMPACT RESISTANT LITES WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +41.1/-46.4 PSF

DRAWING NO.: WLTI-0600-0110-08-41-46L **REV.:** A

DRAWN BY: MVS **DATE DRAWN:** 10/25/18 **REV. DATE:** 2/23/22

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

320 Sycamore
Wauseon, Ohio 43567
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Direct Wood Mounting Detail

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

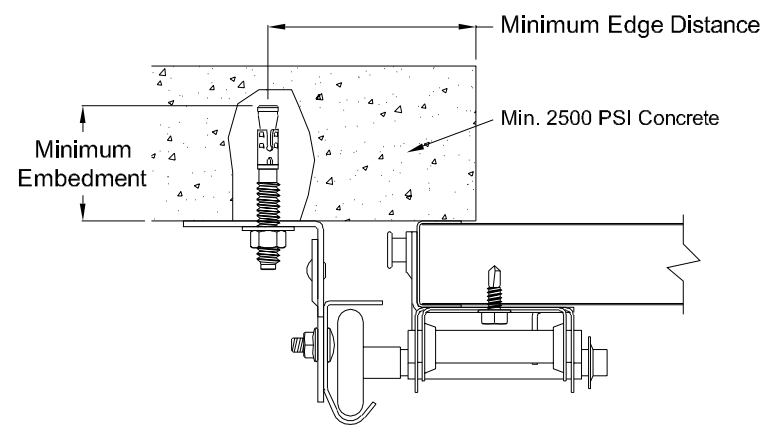
439 lbs. per anchor allowable load

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: 24"



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

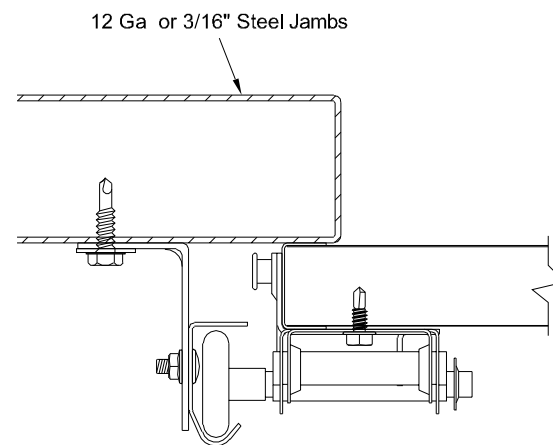
3/8" Dia. Ankr-Tite CCAT w/1-1/8" O.D. Flat Washer (by Wej-It Fastening Systems)

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

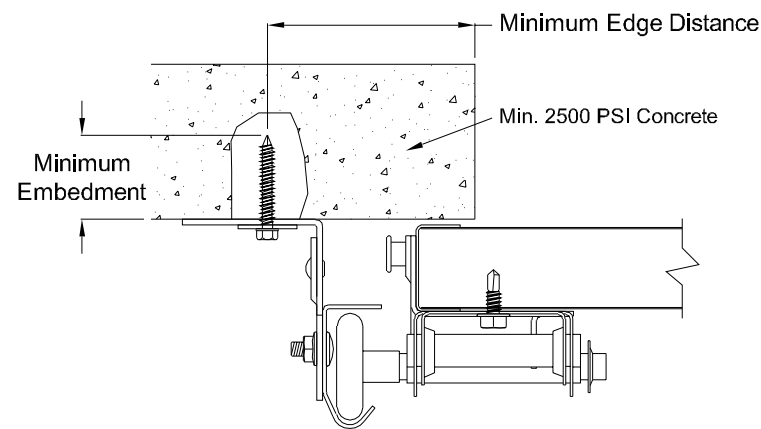
Bracket Mount Shown, Reverse and Continuous Angle Mount Also Approved As Alternate.

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: 15"

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

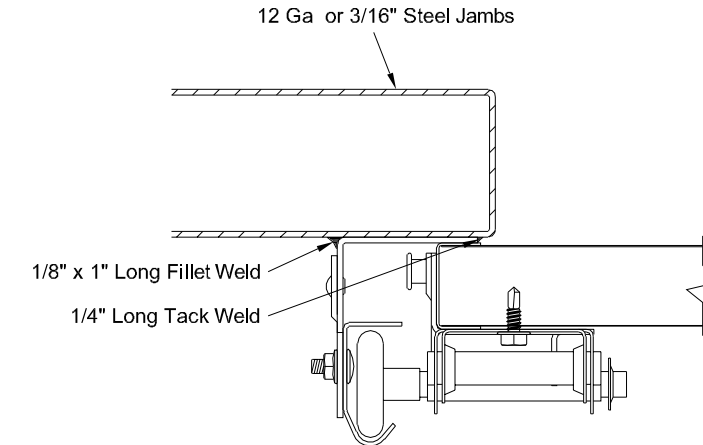
TruBolt wedge anchor (by ITW))

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

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:	
9' 2" HT 600, 700 & 2000 SERIES W/IMPACT RESISTANT LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +41.1/-46.4 PSF	
DRAWING NO.: WLTI-0600-0110-08-41-46L	REV.: A
DRAWN BY: MVS	DATE DRAWN: 10/25/18
MODEL(S): See Sheet 3	REV. DATE: 2/23/22
SHEET: 4 OF 4	

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