

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

Door Height 8' - 0" Shown
See chart below for other door heights

Door Width 10' - 2" Shown
See chart below for other door widths

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.

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.

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Door Widths Up To	Design Pressures		End Stiles	Model Number						Impact Resistant
	+ psf	- psf		HT 5_68 SERIES		HT 5_67 SERIES		HT 5_10 SERIES		
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

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

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.

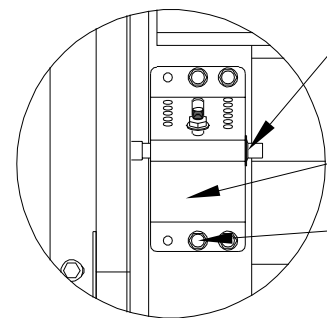
IMPACT RESISTANT

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



DESCRIPTION: 10' 2" HT 5000 ALUMINUM SERIES W/LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +48.0/-52.0 PSF			
DRAWING NO.: WLTl-5000-0122-08-48-52L	REV.: A		
DATE DRN: 11/17/18	DRAWN BY: MVS	REV. DATE: 2/22/22	
MODEL(S): See Sheet 3	SHEET: 1 OF 4		

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Wauseon, Ohio 43567
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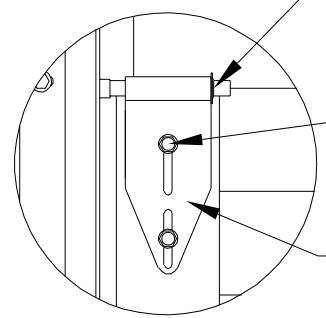


PUSH NUT
7/16"
See DETAIL K for push nut placement.

ADJUSTABLE TOP FIXTURE
12 Ga

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

DETAIL A

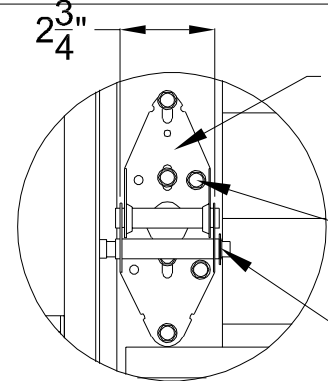


PUSH NUT
7/16"
See DETAIL K for push nut placement.

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

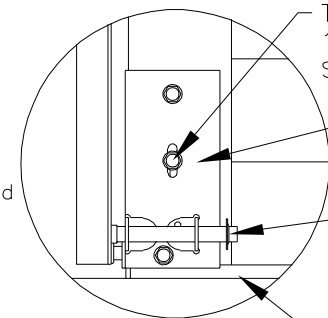


END HINGE
14 Ga Galvanized Steel Minimum

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 B



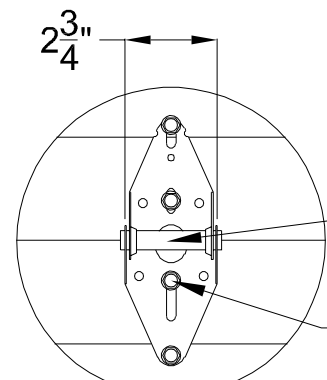
TEK SCREW
1/4" X 3/4" Hex Washer Head
Self Drilling (3 per Bottom Bracket)

BOTTOM BRACKET
13 Ga Galvanized Steel

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

BOTTOM SEAL

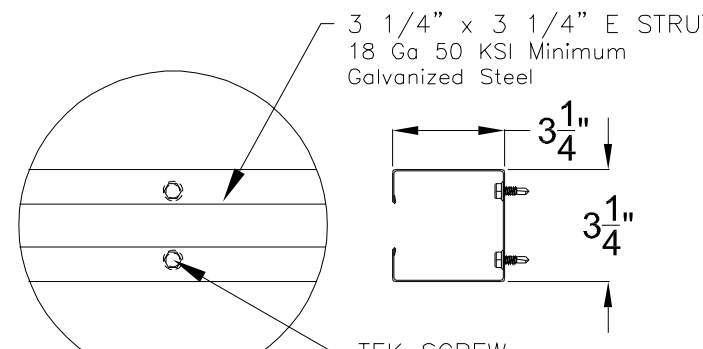
DETAIL C



INTERMEDIATE HINGE
18 or 14 Ga Galvanized Steel

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

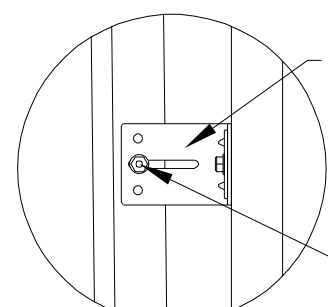
DETAIL D



3 1/4" x 3 1/4" 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)

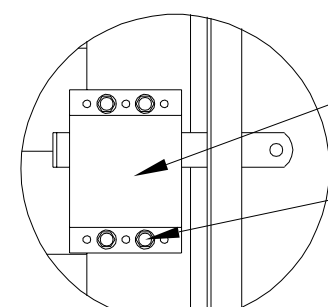
DETAIL E



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)

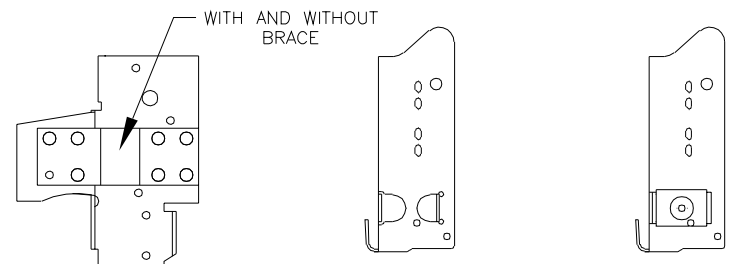
DETAIL F



SLIDE LOCK or LOCK BARS
(not required with operator)

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

DETAIL G



WITH AND WITHOUT BRACE

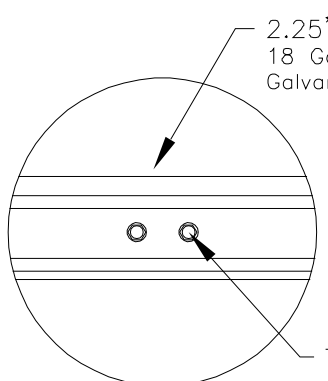
RESIDENTIAL & LIGHT COMMERCIAL
For Low Headroom With 2" Track and Single End Stiles

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

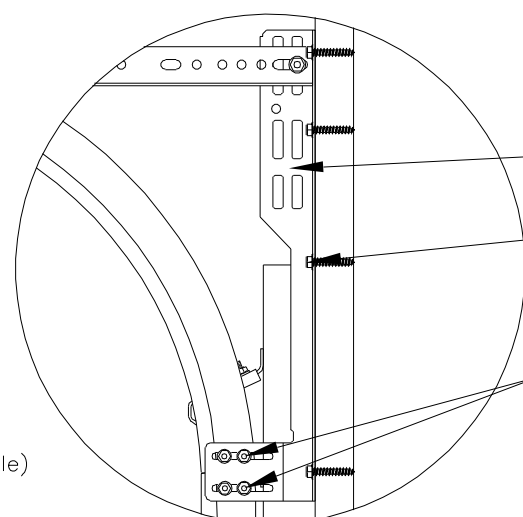
NOTE: The bottom bracket tested (shown in DETAIL C) is the lightest bracket available.



2.25" x 2.75" E STRUT
18 Ga 70 KSI Minimum Galvanized Steel

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

DETAIL J



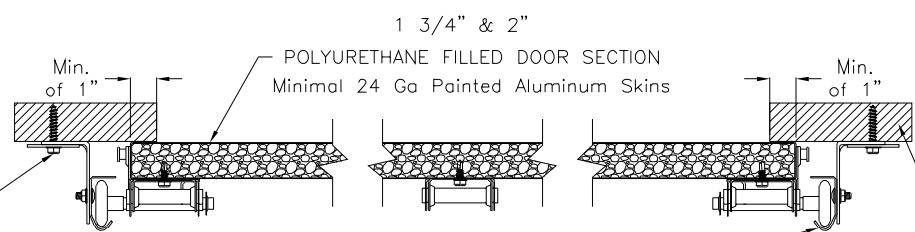
FLAG BRACKET

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.



1 3/4" & 2"

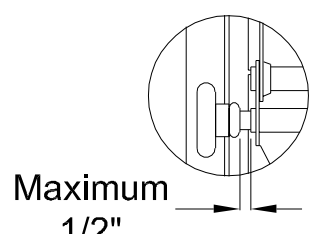
Min. of 1"

POLYURETHANE FILLED DOOR SECTION
Minimal 24 Ga Painted Aluminum 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.

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.

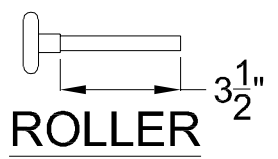
VERTICAL TRACK - 2" Nominal
13 Ga Galvanized Steel tested. 3" Nominal 13 Ga is also approved as an alternate.



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.



ROLLER

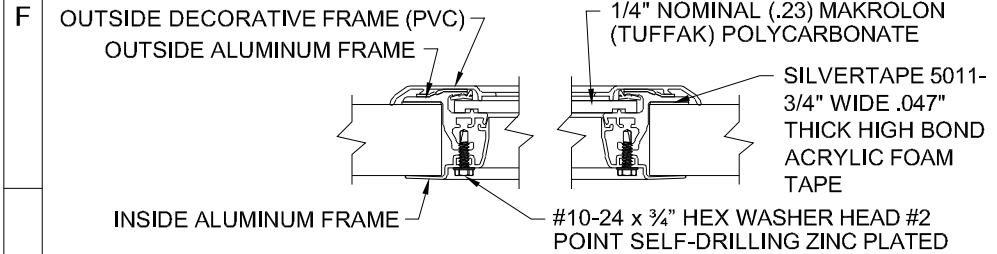
2" Diameter Nominal Eleven Ball Nylon or Ten Ball Steel with a Minimum Workable Shaft Length Shown.

IMPACT RESISTANT

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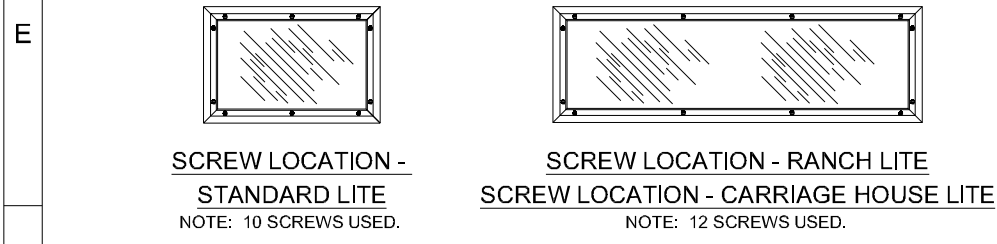
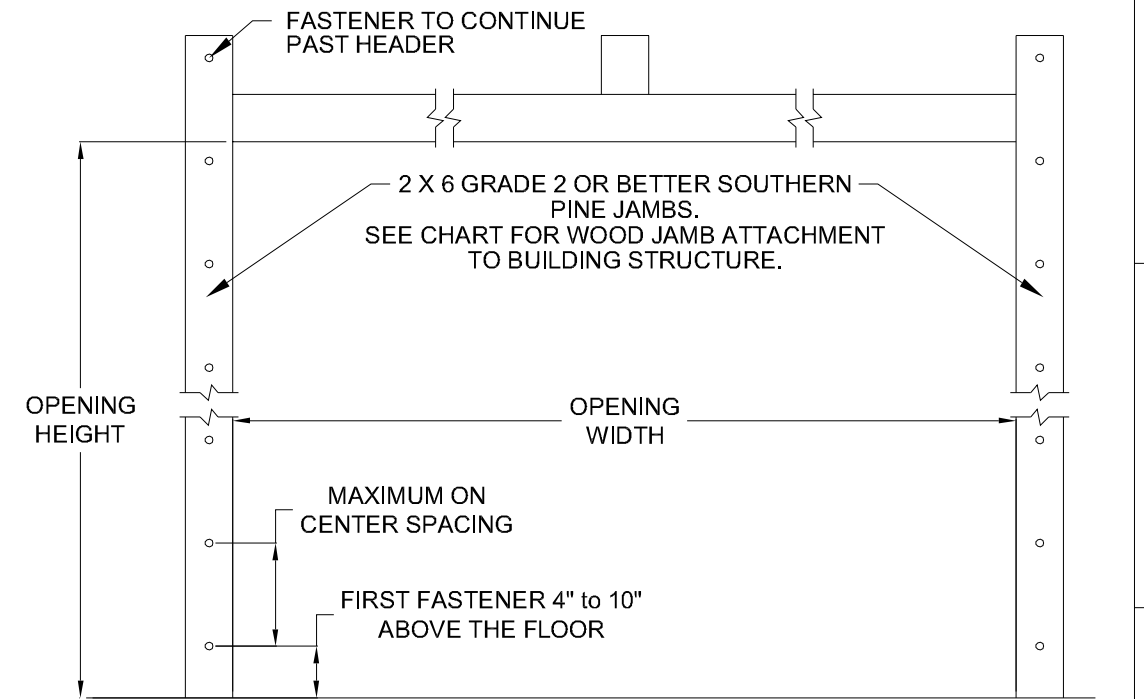
DESCRIPTION: 10' 2" HT 5000 ALUMINUM SERIES W/LITES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +48.0-52.0 PSF			
DRAWING NO.: WLTl-5000-0122-08-48-52L		REV.: A	
DATE DRN: 11/17/18	DRAWN BY: MVS	REV. DATE: 2/22/22	
MODEL(S): See Sheet 3			SHEET: 2 OF 4



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 5_10 SERIES	X	X	X		
HT 5_67 SERIES	X				
HT 5_68 SERIES	X				
HT 5_70 SERIES		X			
HT 5_78 SERIES		X			
HT5_80 SERIES			X		
HT5_87 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

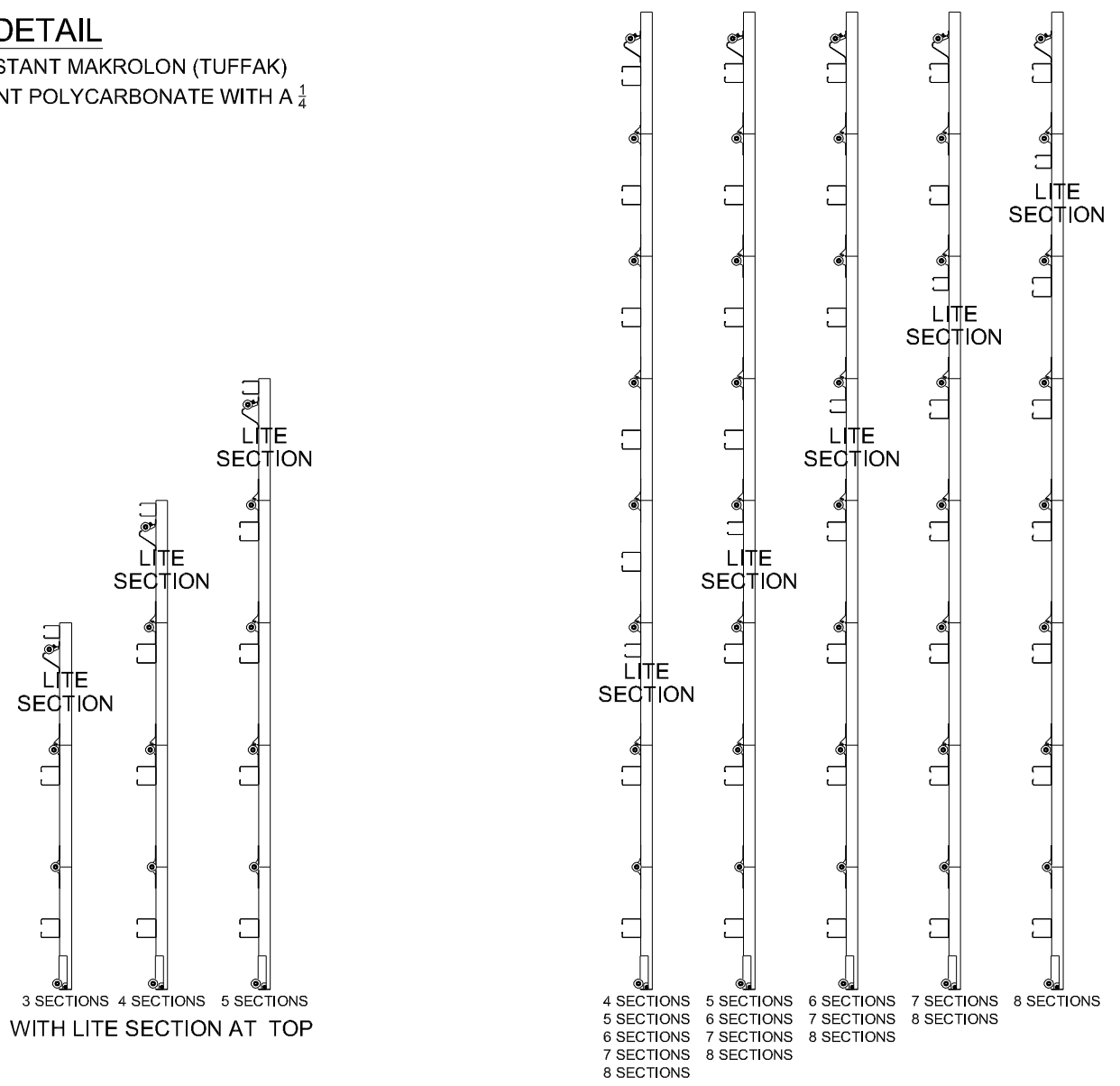


GLAZING DETAIL

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"	23"	482

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



WITH LITE SECTION ANYWHERE EXCEPT THE TOP AND BOTTOM SECTION
STRUT CONFIGURATION

IMPACT RESISTANT

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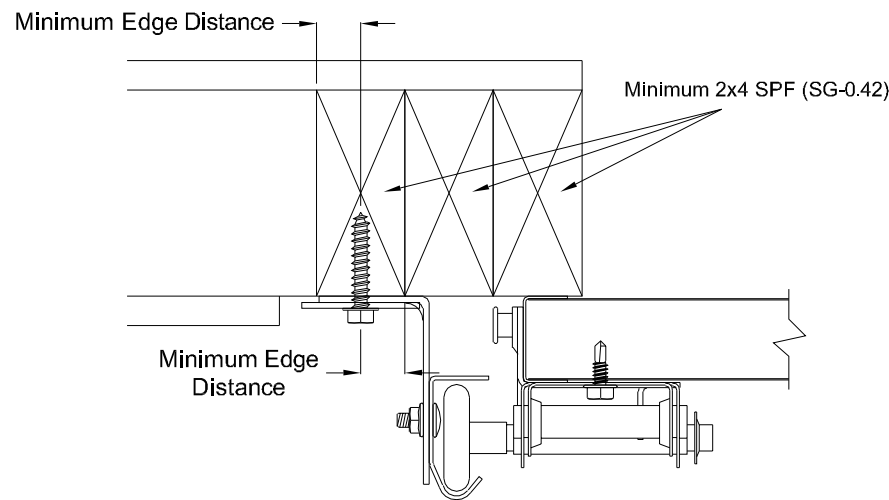
DESCRIPTION:
10' 2" HT 5000 ALUMINUM SERIES W/LITES
WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +48.0-52.0 PSF

DRAWING NO.: WLTl-5000-0122-08-48-52L **REV.** A

DATE DRN: 11/17/18 **DRAWN BY:** MVS **REV. DATE:** 2/22/22

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

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Direct Wood Mounting Detail

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

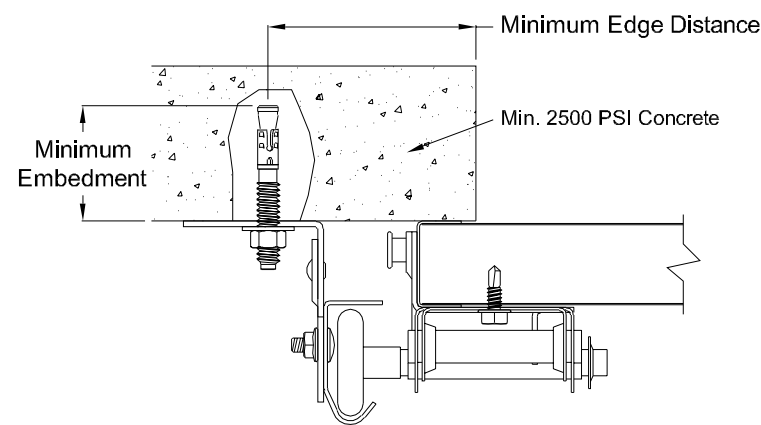
439 lbs. per anchor allowable load

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

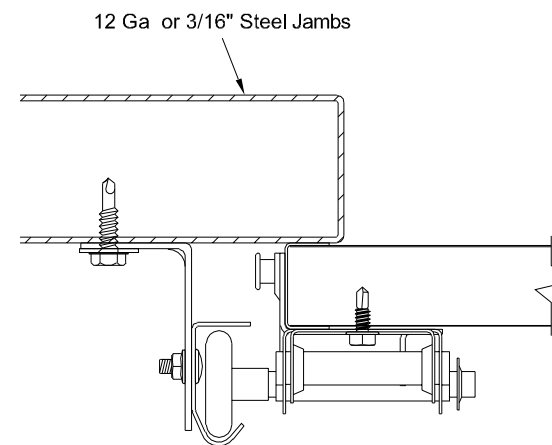
3/8" Dia. Ankr-Tite CCAT w/1-1/8" O.D. Flat Washer (by Wej-It Fastening Systems)

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

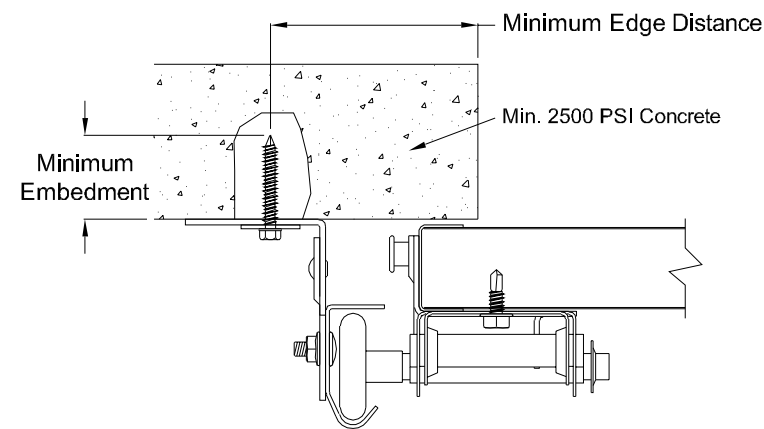
Bracket Mount Shown, Reverse and Continuous Angle Mount Also Approved As Alternate.

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

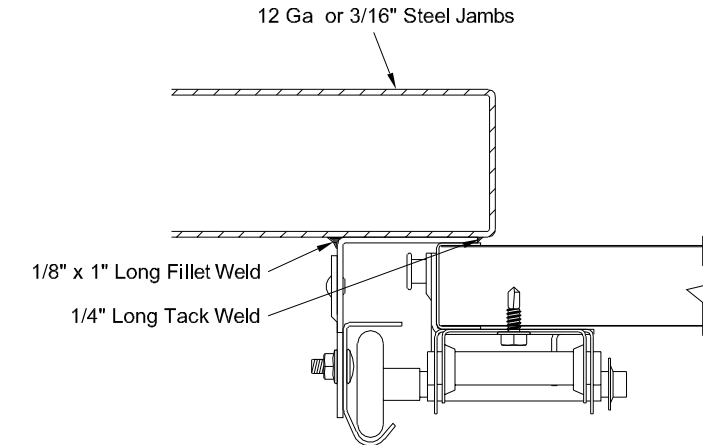
TruBolt wedge anchor (by ITW))

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 5000 ALUMINUM SERIES W/LITES
WIND LOAD SECTIONAL DOOR
DESIGN PRESSURE +48.0/-52.0 PSF

DRAWING NO.: WLTI-5000-0122-08-48-52L **REV.:** A

DATE DRN: 11/17/18 **DRAWN BY:** MVS **REV. DATE:** 2/22/22

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

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