

NOTES:

1. NON IMPACT GLAZING OPTIONS:
A. 16 X 9.75 CLEAR OPENING INSTALLED TOP OR INTERMEDIATE SECTION.
GLAZING SSB (0.090") MINIMUM.
MAY INCLUDE DECORATIVE INSERTS
NOT AVAILABLE IN MORE THAN ONE SECTION.
DOES NOT SATISFY WINDBORNE-DEBRIS.
2. IMPACT GLAZING OPTION:
16.75 X 9.75 CLEAR OPENING
GLAZING 1/4" GROOVED POLYCARBONATE ALUMINUM FRAMES WITH 10 SCREWS MAY INCLUDE DECORATIVE INSERTS INSTALLED IN TOP OR INTERMEDIATE SECTION.
NOT AVAILABLE IN MORE THAN ONE SECTION.
SEE ASSEMBLY DETAIL ON SHEET 2.
3. VINYL OR WOOD DOOR STOP NAILED A MAXIMUM OF 6" O.C. MUST OVERLAP TOP AND BOTH ENDS OF PANELS MINIMUM 7/16" TO MEET NEGATIVE PRESSURES.
4. KEY LOCK, SLIDE LOCKS, OR OPERATOR REQUIRED.
5. LOUVER OPTION - .032" MINIMUM LOUVERS IN MOLDED FRAMES SCREWED TOGETHER WITH A MINIMUM OF (10) #8x1" SCREWS INSTALLED IN THE BOTTOM SECTION. LOUVERS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS.
6. SECTION STEEL TO HAVE A MINIMUM 25 GA THICKNESS.
7. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.
8. DOOR JAMB TO BE MINIMUM 2" X 6", GRADE 2 SOUTHERN PINE. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.
9. FOR LOW HEAD ROOM LIFT CONDITIONS, TOP BRACKET SHALL BE A 13 GA LHR 7/4 TOP BRACKET WITH A MINIMUM OF (3) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS IN LIEU OF THE BRACKET SHOWN ON THIS DRAWING. U-BAR ON TOP SECTION SHALL BE INSTALLED ON TOP OF LHR TOP BRACKETS.

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

DOOR WIDTH	DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)
10'-0"	ALL	+172.0/-191.5
12'-0"	ALL	+206.4/-229.8
14'-0"	ALL	+240.8/-268.1
15'-0"	ALL	+258.0/-287.3
16'-0"	ALL	+275.2/-306.4

- 13 GA HORIZ ANGLE
- 13 GA FLAG ANGLE
- 15 GA MIN HORIZ TRACK
- 5/16x1-5/8" LAG SCREW (MIN 3 AS SHOWN)
- (4) 1/4-20x9/16" LARGE HEAD TRACK BOLTS OR 1/4-20 STUDS WITH 1/4-20 HEX NUTS
- 15 GA MIN VERT TRACK
- 1/4-20x9/16" TRACK BOLT AND 1/4-20 HEX NUT AT EACH JB-US JAMB BRACKET LOCATION
- 5/16x1-5/8" LAG SCREW AT EACH JAMB BRACKET
- 15 GA STIFFENED JAMB BRACKETS SEE SCHELDULE FOR QUANTITY, LOCATION, AND TYPE
- KEY LOCK OR SLIDE LOCK EACH END (NOT REQUIRED WITH OPERATOR - SEE NOTE 4). SLIDE LOCK SHOWN FOR CLARITY

NOTE: (4) SECTION SOLID DOOR SHOWN. SEE SHEET 2 FOR U-BAR LOCATIONS ON DOORS WITH OTHER SECTION QUANTITIES AND SEE NOTES 1 AND 2 THIS SHEET FOR GLAZING OPTIONS.

JAMB BRACKET SCHEDULE

DOOR HEIGHT	NO. OF SECTIONS	NO. OF JAMB BRACKETS (EACH JAMB)	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")
6'-6"	4	7	2" (JB-US), 10" (JB-US), 21-3/4" (JB-US), 29-3/4" (JB-US), 39" (JB-US), 48" (JB-US), 57-1/4" (JB-US)
7'-0"	4	7	2" (JB-US), 10" (JB-US), 21-3/4" (JB-US), 29-3/4" (JB-US), 42" (JB-US), 52-1/2" (JB-US), 63-1/4" (JB-US)
7'-6"	5	9	2" (JB-US), 10" (JB-US), 18-3/4" (JB-US), 26-3/4" (JB-US), 36" (JB-US), 45" (JB-US), 54-1/4" (JB-US), 63" (JB-US), 74-1/2" (JB-US)
8'-0"	5	9	2" (JB-US), 10" (JB-US), 21-3/4" (JB-US), 29-3/4" (JB-US), 39" (JB-US), 48" (JB-US), 57-1/2" (JB-US), 66" (JB-US), 75-1/2" (JB-US)
> 8'-0"			SEE NOTE BELOW

NOTE: (JB-US) FOLLOWING DIMENSION DENOTES SLOTTED JAMB BRACKET ATTACHED TO TRACK WITH 1/4-20x9/16" TRACK BOLT AND NUT AS SHOWN ABOVE.

ALL DOORS GREATER THAN 8' IN HEIGHT REQUIRE USE OF CONTINUOUS WALL ANGLE. SEE SUPPLEMENT TRACK CHART FOR DETAILS.

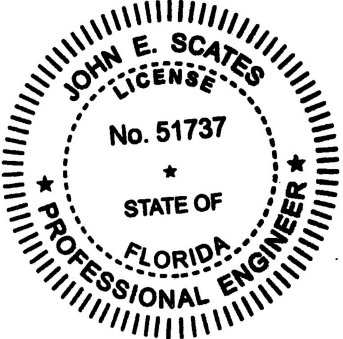
SERIES 170-177, 180-187, 1400, 1440, 1500, 1540

COMPLIES WITH THE REQUIREMENTS OF IBC/IRC 2018.

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REF DWG	USED ON		TOLERANCES UNLESS OTHERWISE SPECIFIED		FINISH	 LEWISVILLE, TEXAS	NAME	DATE	DRAWING TITLE: SERIES 170, 180WL WS7, 16' MAX WIDE			
			HOLE DIAMETER		N/A		CHECKED BY:					
			UNDER .251 +.004/- .003		WHOLE NUMBERS: ± .25		UNIT OF MEASURE	MATERIAL:	M. SAWICKI	10/25/10	DRAWING NUMBER	D-411048
			.251 TO .500 +.006/- .003		.XX ± .1							
		OVER .500 +.008/- .003		.XX ± .03	EACH	NONE	APPROVED BY:	4/12/21	SCALE:	N.T.S.	SHEET 1 of 2	
		FRACTIONS		.XXX ± .010								ANGLES: ± .5°
		± 1/16										

REVISIONS				
ER	REV	DESCRIPTION	DATE	APPROVAL
31052	D	REV PER ER	9/25/18	ESC
31052	E	UPDATE NOTES ADD LHR DETAIL	2/13/19	ESC
	F	ADDED IRC/IBC NOTES FOR TDI	4/12/21	TLC
32769	G	UPDATED PER PCR	2/10/22	SW

NOTE: 16' DOOR SHOWN. SEE SHEET 2 FOR HINGE AND STILE LOCATIONS ON OTHER SIZE DOORS.



Digitally signed by John E Scates
Date: 2023.10.07 18:44:26 -05'00'

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JOHN E. SCATES, PE
2560 KING ARTHUR BLVD #124-54
LEWISVILLE, TX 75056
FL PE 51737
TX PE 56308/F2203

12 GA ROLLER SLIDE ATTACHED TO BRACKET WITH 5/16-18 BOLT & NUT IN CENTER SLOT AND 1/4-20x9/16" TRACK BOLT & 1/4-20 HEX NUT THROUGH ANY TWO ALIGNING HOLES

(2) 12 GA COMMERCIAL 'A' FRAME TOP BRACKETS EACH ATTACHED WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS

ADD (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS (INSIDE OF EACH INSIDE END HINGE)

2" STEEL ROLLER WITH 9" GRADE 1144 OR EQUIVALENT STEM AND 7/16" PUSHNUT AT EACH ROLLER LOCATION. 1/4" MAX BETWEEN PUSHNUT AND BRACKET OR HINGE. OPTIONAL- 11 BALL BEARING NYLON ROLLER WITH 9" GRADE 1144 OR EQUIVALENT STEM

#1 HINGE IS 14 GA
#2 HINGE IS 13 GA
#3 HINGE (AND ALL ABOVE) ARE 13 GA WIDE BODY END HINGE ATTACHED WITH (4) 1/4-14x5/8" SELF TAPPING SCREWS

14 GA WIDE BODY INTERMEDIATE HINGE ATTACHED WITH (4) 1/4-14x5/8" SELF TAPPING SCREWS

12 GA EXTENSION BRACKET ATTACHED WITH (3) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS (2 THROUGH STRUT AND BRACKET)

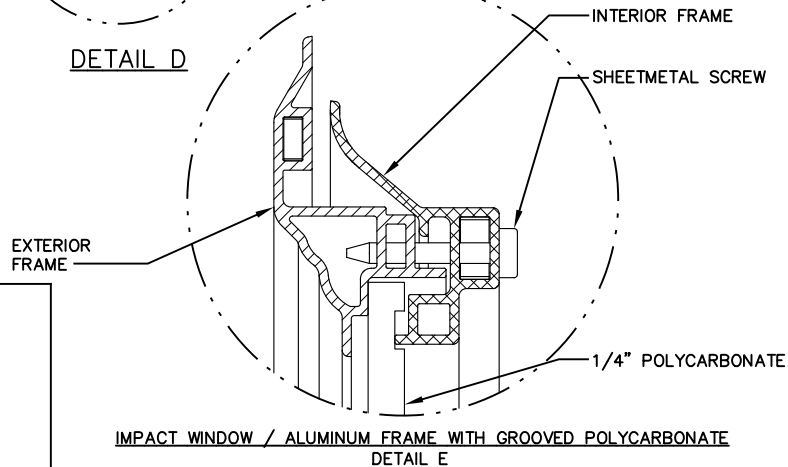
14 GA BOTTOM BRACKET ATTACHED WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS (2 OF WHICH IS THROUGH STRUT AND (1) 1/4-14x5/8" SELF DRILLING RED SCREW

DETAIL A

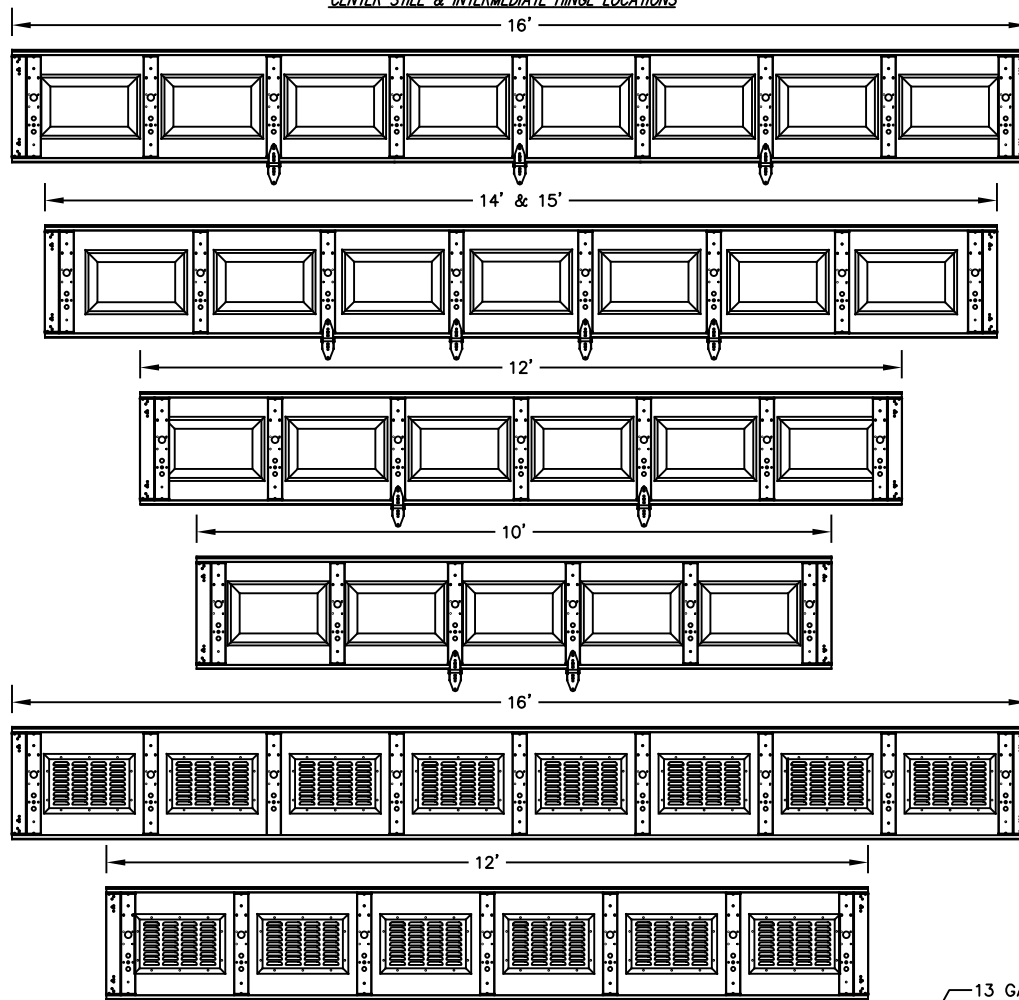
DETAIL B

DETAIL C

DETAIL D



CENTER STILE & INTERMEDIATE HINGE LOCATIONS



U-BAR LOCATIONS

(8) SECTION DOORS WITH (12) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

(7) SECTION DOORS WITH (11) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

(6) SECTION DOORS WITH (9) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

(5) SECTION DOORS WITH (8) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

(4) SECTION DOORS WITH (6) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

PLACE 3" U-BAR OVER LOW HEADROOM BRACKET ATTACH THRU END STILE AND CENTER STILE AT EACH END WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS.

LOW HEADROOM TRACK
DETAIL F

HEAD PLATE, ATTACHED TO JAMB WITH (2) 5/16"x1-5/8" LAG SCREW

HEAD PLATE

JOINT BRACKET

JOINT BRACKET, ATTACHED TO JAMB WITH (1) 5/16"x1-5/8" LAG SCREW

VERTICAL TRACK

HEAD PLATE, ATTACHED TO REINFORCING ANGLE WITH (2) 1/4-20"x5/8" TRACK BOLTS & NUTS

REINFORCING ANGLE

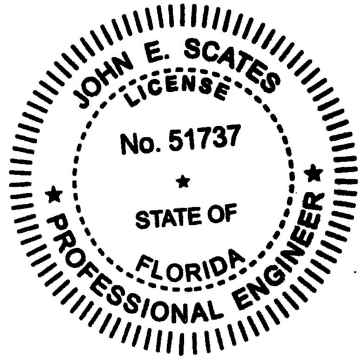
REINFORCING ANGLE, ATTACHED TO TRACK WITH (2) 1/4-20"x5/8" TRACK BOLTS & NUTS

HORIZONTAL TRACK

JOINT BRACKET, ATTACHED TO JAMB WITH (4) 1/4-20"x5/8" TRACK BOLTS & NUTS

OPTIONAL: 2-PIECE TRACK DETAIL

ATTACH U-BAR WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS AT EACH STILE LOCATION, TYP.



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STATIC PRESSURE RATINGS	APPROVED SIZES
DESIGN PRESSURE(PSF): 34.4/-38.3	MAX WIDTH: 16'
	MAX HEIGHT: 14'
IMPACT/CYCLIC RATED: YES	MAX SECTION HEIGHT: 21"

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REF DWG	USED ON	TOLERANCES UNLESS OTHERWISE SPECIFIED	FINISH	MATERIAL	NAME	DATE	DRAWING TITLE	DRAWING NUMBER	SHEET
		HOLE DIAMETER	N/A	NONE	G. TAYLOR	10/15/10	SERIES 170, 180WL	D-411048	2
		UNDER .251 +.004/- .003			M. SAWICKI	10/25/10	WS7, 16' MAX WIDE		
		.251 TO .500 +.006/- .003							
		OVER .500 +.008/- .003							
		FRACTIONS							
		± 1/16							
		WHOLE NUMBERS: ± .25							
		.X ± .1							
		.XX ± .03							
		.XXX ± .010							
		ANGLES: ± .5°							
		UNIT OF MEASURE							
		EACH							
		APPROVED BY:							
		T. CLARK							
		4/12/21							
		SCALE:							
		N.T.S.							