

- NOTES:
1. IMPACT RESISTANT GLAZING OPTION- IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED IN TOP OR INTERMEDIATE SECTION (WITH OR WITHOUT DECORATIVE INSERTS). GLAZING SHALL BE 1/4" POLYCARBONATE. MAXIMUM GLAZING DIMENSIONS SHALL BE 11" x 17" CUTOUT, FASTENED WITH #8 X 1" SMS: 3X ALONG THE HORIZONTAL AND 2X ALONG THE VERTICAL. SEE DETAIL E ON SHEET 2 FOR ASSEMBLY DETAILS.
 2. 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.
 3. KEY LOCK, SLIDE LOCKS, OR OPERATOR REQUIRED.
 4. SECTION STEEL TO HAVE A MINIMUM 25 GA THICKNESS.
 5. 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.
 6. DOOR JAMB TO BE MINIMUM 2x6, STRUCTURAL GRADE SOUTHERN PINE. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.

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 SCHEDULE 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.

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE		
DOOR WIDTH	DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)
10'-0"	ALL	+230.0/-260.0
12'-0"	ALL	+276.0/-312.0
14'-0"	ALL	+322.0/-364.0
15'-0"	ALL	+345.0/-390.0
16'-0"	ALL	+368.0/-416.0

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.

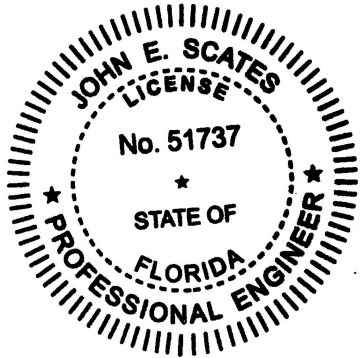
ALL DOORS GREATER THAN 8' IN HEIGHT REQUIRE USE OF CONTINUOUS WALL ANGLE. SEE SUPPLEMENT TRACK CHART FOR DETAILS.

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	FINISH N/A	UNIT OF MEASURE EACH
TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL: NONE	
HOLE DIAMETER		WHOLE NUMBERS: ± .25	
UNDER .251 +.004/-.003		.XX ± .1	
.251 TO .500 +.006/-.003		.XXX ± .03	
OVER .500 +.008/-.003		ANGLES: ± .5°	
FRACTIONS		SCALE: N.T.S.	
± 1/16		SHEET 1 OF 2	

REVISIONS				
ER	REV	DESCRIPTION	DATE	APPROVAL
31052	C	REV TITLE BLOCK	10/2/2017	ESC
	D	UPDATE NOTES AND TITLE BLOCK	2/13/19	ESC
	E	ADDED IRC/IBC NOTES FOR TDI	4/12/21	TLC
32769	F	REV PER PCR	2/10/22	SW



Digitally signed by John E Scates
Date: 2023.10.07 18:43:23 -05'00'

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13 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) 13 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

(2) 14 GA WIDE BODY END HINGES EACH 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 (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS THROUGH STRUT AND BOTTOM BRACKET AND (1) 1/4-14x5/8" SELF DRILLING RED SCREW

DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

CENTER STILE & INTERMEDIATE HINGE LOCATIONS

16'

14' & 15'

12'

10'

U-BAR LOCATIONS

(8) SECTION DOORS WITH (16) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

(7) SECTION DOORS WITH (14) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

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

(5) SECTION DOORS WITH (10) 3" 18 GA 80 KSI U-BARS LOCATED AS SHOWN

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

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

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 (1) 5/16"x1-5/8" LAG SCREW

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.

INTERIOR FRAME

EXTERIOR FRAME

SHEETMETAL SCREW

1/4" POLYCARBONATE

IMPACT WINDOW / ALUMINUM FRAME WITH GROOVED POLYCARBONATE

DETAIL E

JOHN E. SCATES
LICENSE
No. 51737
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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THIRD ANGLE PROJECTION

ASME Y14.100 AND Y14.5 APPLY, UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.

TOLERANCES UNLESS OTHERWISE SPECIFIED

HOLE DIAMETER
UNDER .251 +.004/-0.003
.251 TO .500 +.006/-0.003
OVER .500 +.008/-0.003
FRACTIONS
± 1/16

WHOLE NUMBERS:
.X ± .1
.XX ± .03
.XXX ± .010
ANGLES: ± .5°

FINISH
N/A

UNIT OF MEASURE
EACH

The Genuine. The Original.
LEWISVILLE, TEXAS

MATERIAL:
NONE

NAME
G. TAYLOR

DATE
10/15/10

CHECKED BY:
M. SAWICKI

APPROVED BY:
T. CLARK

DRAWING TITLE:
SERIES 170, 180WL
WS9, 16' MAX WIDE

DRAWING NUMBER
D-411049

SCALE:
N.T.S.

SHEET 2 OF 2

STATIC PRESSURE RATINGS		APPROVED SIZES	
DESIGN PRESSURE(PSF): +46.0/-52.0		MAX WIDTH: 16'	
IMPACT/CYCLIC RATED: YES		MAX HEIGHT: 14'	
		MAX SECTION HEIGHT: 21"	

8

7

6

5

4

3

2

1