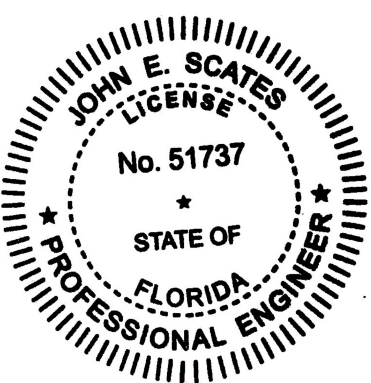


NOTES:

- NON IMPACT GLAZING OPTIONS:
 - 16" X 9.75" CLEAR OPENING INSTALLED TOP OR INTERMEDIATE SECTION.
 - 36.75" X 9.75" CLEAR OPENING INSTALLED IN TOP SECTION ONLY.GLAZING SSB (0.090") MINIMUM. MAY INCLUDE DECORATIVE INSERTS NOT AVAILABLE IN MORE THAN ONE SECTION. DOES NOT SATISFY WINDBORNE-DEBRIS.
- 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.
- 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.
- KEY LOCK, SLIDE LOCKS, OR OPERATOR REQUIRED.
- 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.
- SECTION STEEL TO HAVE A MINIMUM 25 GA THICKNESS.
- 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.
- DOOR JAMB TO BE MINIMUM 2" X 6", GRADE 2 SOUTHERN PINE. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.
- 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	+115.0/-125.0
12'-0"	ALL	+138.0/-150.0
14'-0"	ALL	+161.0/-175.0
15'-0"	ALL	+172.5/-187.5
16'-0"	ALL	+184.0/-200.0

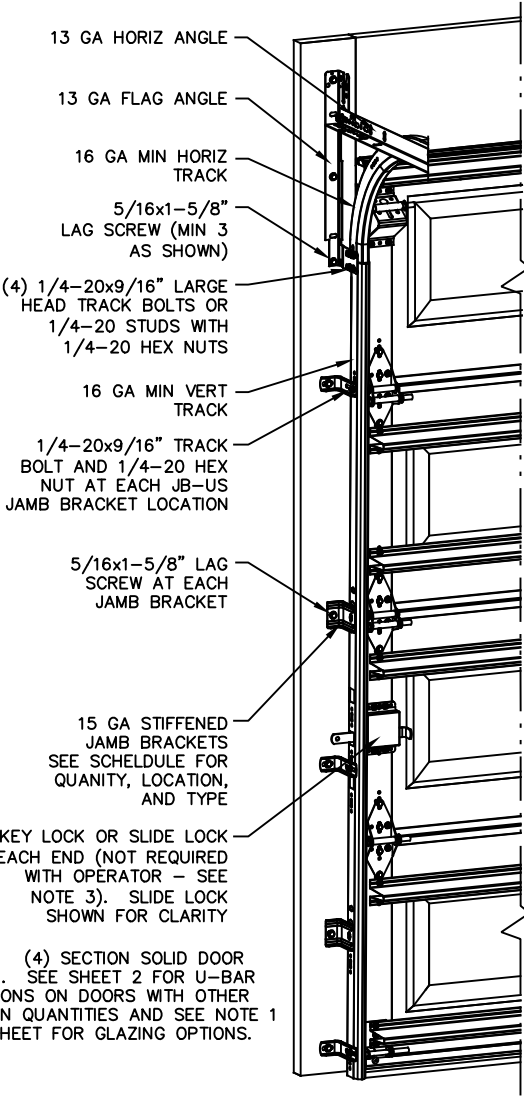


Digitally signed by John E Scates

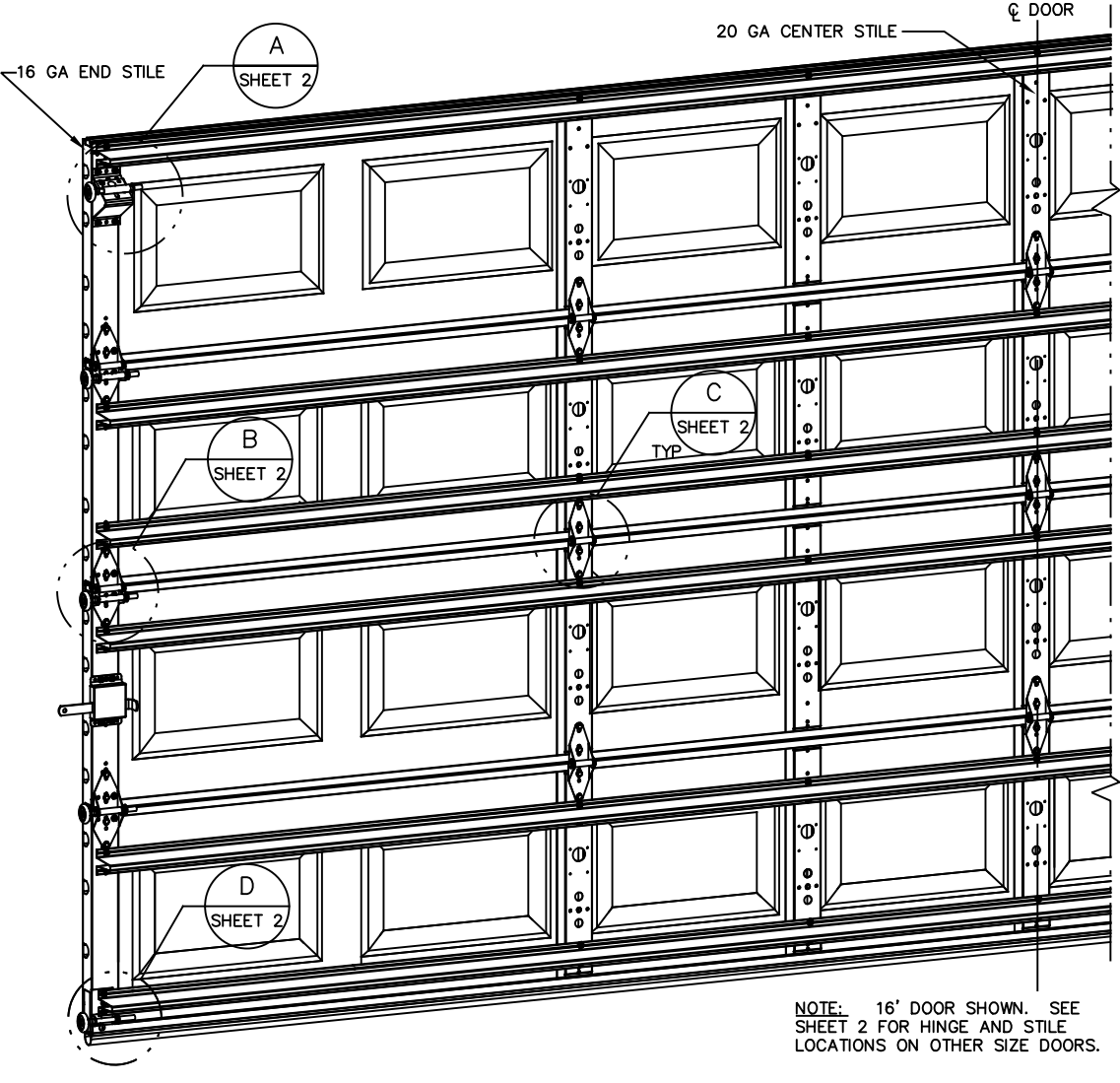
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JOHN E. SCATES, PE
2560 KING ARTHUR BLVD #124-54
LEWISVILLE, TX 75056
FL PE 51737
TX PE 56308/F2203



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



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

JAMB BRACKET SCHEDULE					
DOOR HEIGHT	NO. OF SECTIONS	NO. OF JAMB BRACKETS (EACH JAMB)	TRACK TYPE	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")	
6'-6"	4	4	QI	14" (QI), 34" (JB-US), 44" (QI), 56" (JB-US)	
6'-6"	4	4	FAT	10" (JB-US), 25-3/4" (JB-US), 39" (JB-US), 57-1/4" (JB-US)	
7'-0"	4	5	QI	2" (JB-US), 14" (QI), 29-1/2" (JB-US), 44" (QI), 63-1/4" (JB-US)	
7'-0"	4	5	FAT	2" (JB-US), 10" (JB-US), 29-3/4" (JB-US), 42" (JB-US), 63-1/4" (JB-US)	
7'-6"	5	6	QI	2" (JB-US), 14" (QI), 28-1/2" (JB-US), 43" (QI), 62-1/2" (QI), 72" (JB-US)	
7'-6"	5	6	FAT	2" (JB-US), 10" (JB-US), 26-3/4" (JB-US), 45" (JB-US), 63" (JB-US), 74-1/2" (JB-US)	
8'-0"	5	6	QI	2" (JB-US), 14" (QI), 34" (JB-US), 46" (QI), 58" (JB-US), 66-1/2" (QI)	
8'-0"	5	6	FAT	2" (JB-US), 10" (JB-US), 29-3/4" (JB-US), 48" (JB-US), 57-1/2" (JB-US), 77-1/2" (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.
(QI) FOLLOWING DIMENSION DENOTES QUICK INSTALL JAMB BRACKET INSTALLED IN BUTTERFLY SLOT. NO ADDITIONAL HARDWARE NEEDED TO ATTACH TO TRACK.
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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		THIRD ANGLE PROJECTION		TOLERANCES UNLESS OTHERWISE SPECIFIED		FINISH		The Genuine. The Original.	
				HOLE DIAMETER		N/A		LEWISVILLE, TEXAS	
		ASME Y14.100 AND Y14.5 APPLY UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.		UNDER .251 +.004/- .003		WHOLE NUMBERS: ± .25		DRAWN BY: G. TAYLOR	
				.251 TO .500 +.006/- .003		.X ± .1		10/15/10	
				OVER .500 +.008/- .003		.XX ± .03		CHECKED BY: M. SAWICKI	
				FRACTIONS		.XXX ± .010		10/25/10	
				± 1/16		ANGLES: ± .5°		UNIT OF MEASURE	
						EACH		NONE	
REF DWG	USED ON							APPROVED BY: T. CLARK	
								4/21/21	
								DRAWING TITLE:	
								SERIES 170, 180WL	
								WS4, 16' MAX WIDE	
								DRAWING NUMBER	
								D-411046	
								SCALE: N.T.S.	
								SHEET 1 of 2	

D

C

B

A

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

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

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

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

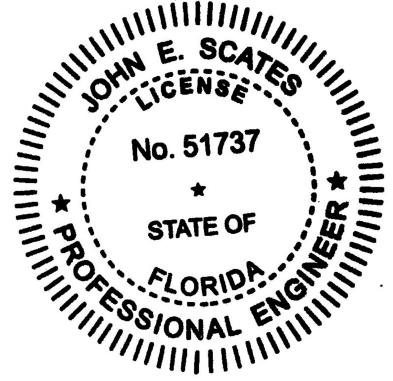
#1 HINGE IS 14 GA
#2 HINGE IS 13 GA
#3 HINGE (AND ALL ABOVE) ARE 13 GA WIDE BODY END HINGE ATTACHED WITH (4) 1/4-14x5/8" SELF TAPPING SCREWS

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

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

INTERIOR FRAME
SHEETMETAL SCREW
1/4" POLYCARBONATE
EXTERIOR FRAME

IMPACT WINDOW / ALUMINUM FRAME WITH GROOVED POLYCARBONATE



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DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

DETAIL F

STRUT IS ATTACHED TO TOP RAIL WITH A SINGLE SCREW AT CENTER STILE LOCATIONS

CENTER STILE & BOTTOM, INTERMEDIATE HINGE LOCATIONS

LONG LIFE GLAZING LAYOUT

LOUVER - OPTIONAL IN BOTTOM SECTION

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
JOINT BRACKET
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
HORIZONTAL TRACK
VERTICAL TRACK
OPTIONAL: 2-PIECE TRACK DETAIL

U-BAR LOCATIONS

(8) SECTION DOORS WITH (12) 3" 20 GA 80 KSI U-BARS LOCATED AS SHOWN

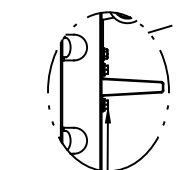
(7) SECTION DOORS WITH (11) 3" 20 GA 80 KSI U-BARS LOCATED AS SHOWN

(6) SECTION DOORS WITH (9) 3" 20 GA 80 KSI U-BARS LOCATED AS SHOWN

(5) SECTION DOORS WITH (8) 3" 20 GA 80 KSI U-BARS LOCATED AS SHOWN

(4) SECTION DOORS WITH (6) 3" 20 GA 80 KSI U-BARS LOCATED AS SHOWN

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



STATIC PRESSURE RATINGS		APPROVED SIZES	
DESIGN PRESSURE(PSF): +23.0/-25.0		MAX WIDTH: 16'	
IMPACT/CYCLIC RATED: YES		MAX HEIGHT: 14'	
		MAX SECTION HEIGHT: 21'	

THE GENUINE. THE ORIGINAL.		NAME	DATE	DRAWING TITLE: SERIES 170, 180WL WS4, 16' MAX WIDE DRAWING NUMBER D-411046 SCALE: N.T.S. SHEET 2 OF 2
OVERHEAD DOOR		DRAWN BY: G. TAYLOR	10/15/10	
MATERIAL: NONE		CHECKED BY: M. SAWICKI	10/25/10	
		APPROVED BY: T. CLARK	4/12/21	

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REF DWG	USED ON	 ASME Y14.100 AND Y14.5 APPLY, UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.	TOLERANCES UNLESS OTHERWISE SPECIFIED			FINISH	 LEWISVILLE, TEXAS	NAME	DATE	DRAWING TITLE: SERIES 170, 180WL WS4, 16' MAX WIDE	
			HOLE DIAMETER			N/A		DRAWN BY: G. TAYLOR	10/15/10		
			UNDER .251 +.004/- .003			WHOLE NUMBERS: ± .25		UNIT OF MEASURE	CHECKED BY: M. SAWICKI	10/25/10	DRAWING NUMBER D-411046
			OVER .500 +.008/- .003			.X ± .1			APPROVED BY: T. CLARK	4/12/21	
FRACTIONS			.XX ± .03	EACH	MATERIAL: NONE						
± 1/16			.XXX ± .010			ANGLES: ± .5°					

D

C

B

A