

NOTES:

1. IMPACT RESISTANT GLAZING OPTION – IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED IN ANY OR ALL SECTIONS. GLAZING SHALL BE 1/4" GROOVED POLYCARBONATE. ALUMINUM FRAMES ASSEMBLED WITH (16) SCREWS. MAXIMUM CLEAR OPENING OF 40" X 12-3/4", FASTENED WITH A MINIMUM #8 X 1" SMS. 5X ALONG THE HORIZONTAL AND 3X ALONG THE VERTICAL. SEE DETAIL E ON SHEET 2 FOR ASSEMBLY DETAILS.

2. MINIMUM 1" OVERLAP ON BOTH JAMBS REQUIRED TO MEET NEGATIVE DESIGN PRESSURES.

3. KEY LOCK, SLIDE LOCK, OR OPERATOR REQUIRED.

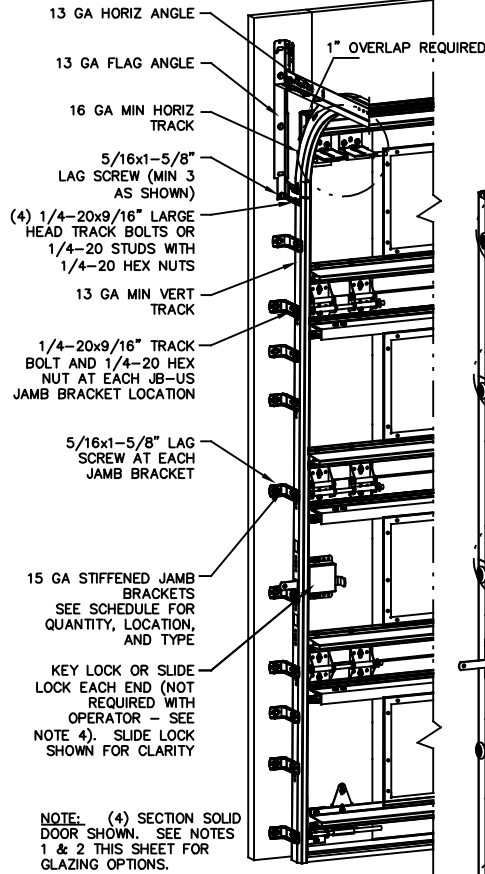
4. FACER STEEL TO HAVE A MINIMUM 27 GA THICKNESS AND BACKER STEEL TO HAVE A MINIMUM 29 GA THICKNESS.

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.

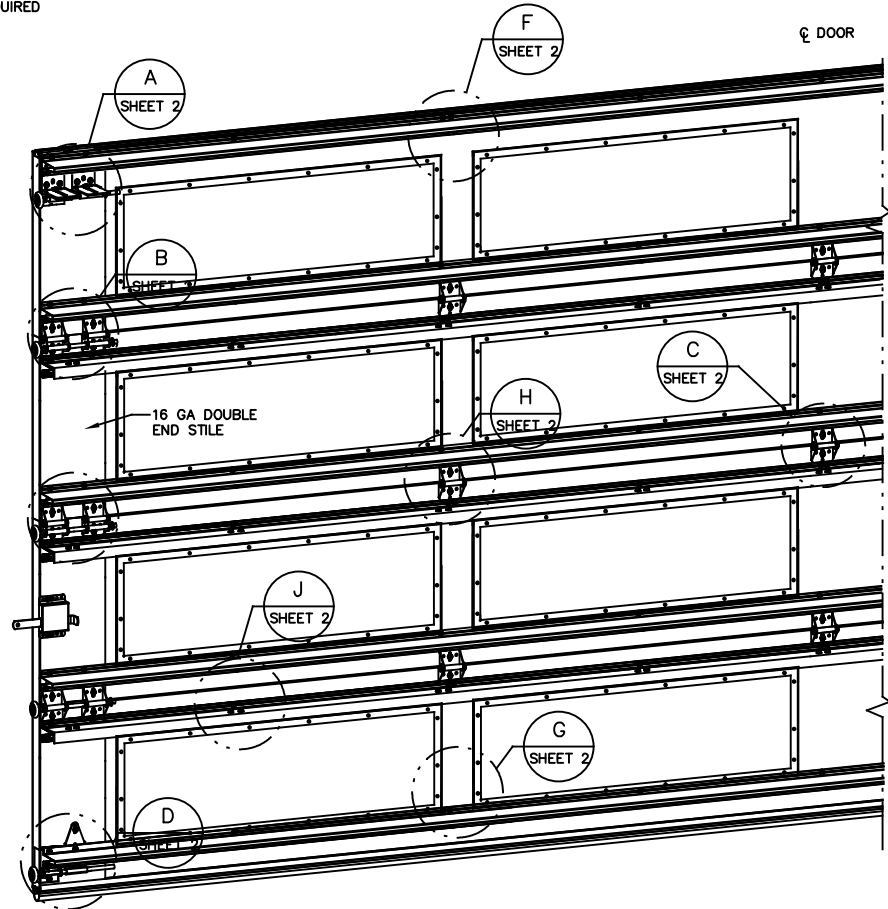
6. DOOR JAMB TO BE MINIMUM 2x6 SOUTHERN PINE LUMBER. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.

7. FOR LOW HEAD ROOM LIFT CONDITIONS, TOP BRACKET SHALL BE A 13 GA LHR 7/4 TOP BRACKET WITHOUT PUSHNUTS AND WITH A MINIMUM OF (3) 1/4-14x7/8" SELF DRILLING CRIMPITE SCREWS IN LIEU OF THE BRACKET SHOWN ON THIS DRAWING. U-BAR ON TOP SECTION SHALL BE INSTALLED ON TOP OF LHR TOP BRACKETS.

8. COMPLIES WITH THE REQUIREMENTS OF IBC/IRC 2018.



NOTE: (4) SECTION SOLID DOOR SHOWN. SEE NOTES 1 & 2 THIS SHEET FOR GLAZING OPTIONS.



SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

DOOR WIDTH	DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)
10'-2"	ALL	+209.9/-237.3
12'-2"	ALL	+251.2/-284.0
14'-2"	ALL	+292.2/-330.7
15'-2"	ALL	+313.1/-354.1
16'-2"	ALL	+333.8/-377.4

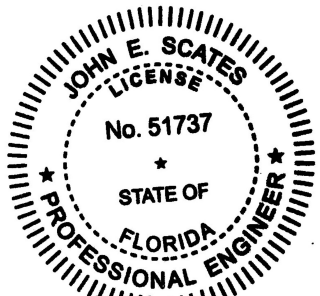
JAMB BRACKET SCHEDULE

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	9	2", 10", 16", 21-3/4", 29-3/4", 42", 48", 55", 63-1/4"
7'-0"	4	9	2", 10", 16", 21-3/4", 29-3/4", 42", 48", 55", 63-1/4"
7'-6"	4 OR 5	11	2", 10", 16", 21-3/4", 29-3/4", 40", 48", 57-1/4", 66", 71", 75-1/2"
8'-0"	4 OR 5	11	2", 10", 16", 21-3/4", 29-3/4", 40", 48", 57-1/4", 66", 71", 75-1/2"
> 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.



Digitally signed by John E. Scates, P.E.

Date: 2021.04.15 17:02:28 -05'00'

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

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

Wayne Dalton
GARAGE DOORS™

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850) 474-9890

STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
DESIGN (PSF):	+41.30/-46.70	MAX WIDTH:	16'-2"	DATE		NAME	
TEST (PSF):	+61.95/-70.05	MAX HEIGHT:	24'-1"	DRAWN	03/09/21	JQ	
IMPACT/CYCLIC RATED (YES/NO):	YES	MAX SECTION HEIGHT:	24"	CHECKED	03/31/21	DK	
MODELS 4600/4650/6600/8300/8350/8500/5150/5200				SHEET 1 OF 2			
WINDLOAD SPECIFICATION OPTION CODE 2612				DRAWING PART NO.		REV.	
				365445		-	

REVISIONS

REV - INITIAL DRAWING
JQ 3/23/21

(2) 12 GA COMMERCIAL 'L' FRAME
TOP BRACKETS ATTACHED WITH (4)
1/4-20x7/8" SELF DRILLING SCREWS
(2) THROUGH STRUT AND TOP
BRACKET)

'L' FRAME REINFORCING ANGLE
BRACKET ATTACHED WITH (1)
1/4-20x7/8" SELF DRILLING SCREWS

13 GA ROLLER SLIDE ATTACHED
TO BRACKET WITH 5/16-18 BOLT
& NUT IN THE CENTER SLOT

2" STEEL ROLLER WITH 9" GRADE
1144 OR EQUIVALENT STEM. 1/4"
MAX BETWEEN PUSH NUT AND
OUTER HINGE.
OPTIONAL- 11 BALL BEARING
NYLON ROLLER WITH 1144 OR
EQUIVALENT STEM.

(2) WIDE BODY END HINGES
EACH ATTACHED WITH (4)
1/4-14x7/8" SELF DRILLING
CRIMPITTE SCREWS

DOUBLE END HINGE
#1 HINGE 14GA
#2 HINGE 13GA
#3 HINGE 13GA

14 GA WIDE BODY
INTERMEDIATE HINGE
ATTACHED WITH (4)
1/4-14x7/8" SELF DRILLING
CRIMPITTE SCREWS

12 GA EXTENSION BRACKET
ATTACHED WITH (4) 1/4-14x7/8"
SELF DRILLING CRIMPITTE SCREWS

14 GA BOTTOM BRACKET
ATTACHED WITH (2)
1/4-14x7/8" SELF DRILLING
CRIMPITTE SCREWS THROUGH
STRUT AND BOTTOM BRACKET
AND (1) 1/4-14x5/8" SELF
DRILLING TAMPER RESISTANT
SCREW

TOP U-BAR SHALL BE ATTACHED
WITH (4) 1/4-14x7/8" SELF DRILLING
CRIMPITTE SCREWS AT EACH HINGE
LOCATION AND (2) 1/4-14x7/8" SELF
DRILLING CRIMPITTE SCREWS BETWEEN
ALL END HINGES AND INTERMEDIATE
HINGES.

U-BARS WITH 2X2X12GA ANGLES
SHALL BE ATTACHED WITH (3)
1/4-14x7/8" SELF DRILLING
CRIMPITTE SCREWS AT EACH HINGE
LOCATION AND (2) 1/4-14x7/8"
SELF DRILLING CRIMPITTE SCREWS
BETWEEN ALL END HINGES AND
INTERMEDIATE HINGES.

BOTTOM U-BAR SHALL BE ATTACHED
WITH (4) 1/4-14x7/8" SELF DRILLING
CRIMPITTE SCREWS AT EACH HINGE
LOCATION. AND (2) 1/4-14x7/8"
SELF DRILLING CRIMPITTE SCREWS
BETWEEN ALL END HINGES AND
INTERMEDIATE HINGES

ALL 2X2X12GA ANGLE SHALL BE
ATTACHED WITH (2) 1/4-14x7/8"
SELF DRILLING CRIMPITTE SCREWS
SIDE BY SIDE AT EACH HINGE
LOCATION AND BETWEEN ALL END
HINGES AND INTERMEDIATE HINGES.
A MINIMUM OF (18) FASTENERS
ARE TO BE USED.

DETAIL G

IMPACT FRAME SIZE	DAYLIGHT OPENING (DLO)	SCREW QTY
19.2 X 15.3	15 X 11	10
19.8 X 16.8	15.75 X 12.75	10
40 X 12.8	35.8 X 8.6	14
42 X 16.8	37.8 X 12.75	14
41.2 X 7.1	37 X 3	12
44.1 X 15.5	40.13 X 11.25	16

ALL 2X2X12GA ANGLE SHALL BE ATTACHED WITH
(2) 1/4-14x7/8" SELF DRILLING CRIMPITTE
SCREWS AT EACH HINGE LOCATION AND BETWEEN
ALL END HINGES AND INTERMEDIATE HINGES. A
MINIMUM OF (18) FASTENERS ARE TO BE USED.

INTERIOR FRAME

ALL INTERMEDIATE U-BARS SHALL BE ATTACHED WITH (2)
1/4-14x7/8" SELF DRILLING CRIMPITTE SCREWS AT EACH
HINGE LOCATION AND BETWEEN ALL END HINGES AND
INTERMEDIATE HINGES. A MINIMUM OF (22) FASTENERS
ARE TO BE USED.

SHEETMETAL SCREW
1/4" POLYCARBONATE

EXTERIOR FRAME

DETAIL E

DETAIL H

DETAIL J

(10) SECTION DOORS WITH
(20) 3" 18 GA 80 KSI U-BARS
(9) 2X2X12GA ANGLES
LOCATED AS SHOWN

(9) SECTION DOORS WITH
(18) 3" 18 GA 80 KSI U-BARS
(8) 2X2X12GA ANGLES
LOCATED AS SHOWN

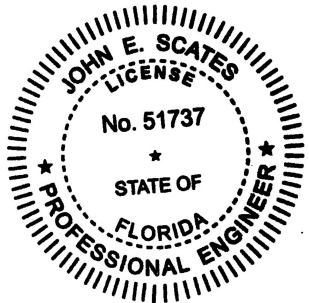
(8) SECTION DOORS WITH
(16) 3" 18 GA 80 KSI U-BARS
(7) 2X2X12GA ANGLES
LOCATED AS SHOWN

(7) SECTION DOORS WITH
(14) 3" 18 GA 80 KSI U-BARS
(6) 2X2X12GA ANGLES
LOCATED AS SHOWN

(6) SECTION DOORS WITH
(12) 3" 18 GA 80 KSI U-BARS
(5) 2X2X12GA ANGLES
LOCATED AS SHOWN

(5) SECTION DOORS WITH
(10) 3" 18 GA 80 KSI U-BARS
(4) 2X2X12GA ANGLES
LOCATED AS SHOWN

(4) SECTION DOORS WITH
(8) 3" 18 GA 80 KSI U-BARS
(3) 2X2X12GA ANGLES
LOCATED AS SHOWN



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REVISIONS