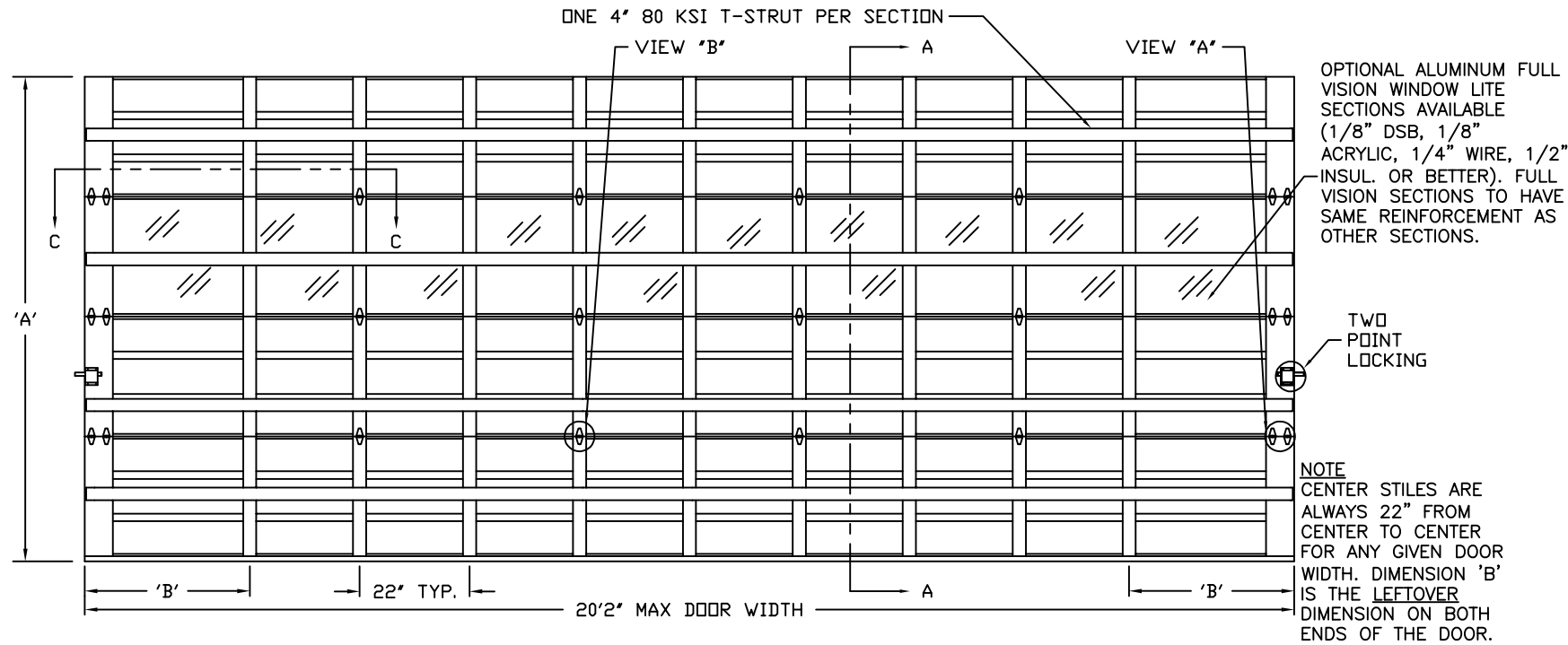


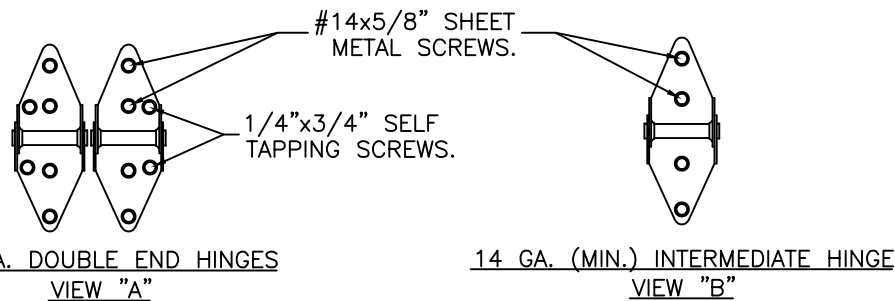
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
MODELS 524, 520/ 224/ C4ST, C0ST
INSULATED MODELS 524S, 520S, 524V/ 224V, 224S/ C4SS, C0SS, C4SV

SHEET:
1 OF 4

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	-	7/19/16	-	SH	BASED ON 102126-R09
01	-	7/6/17	-	-	SPECIFIED 1/4"x1" SCREWS FOR FULL VISION T-STRUTS
02	-	8/12/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART

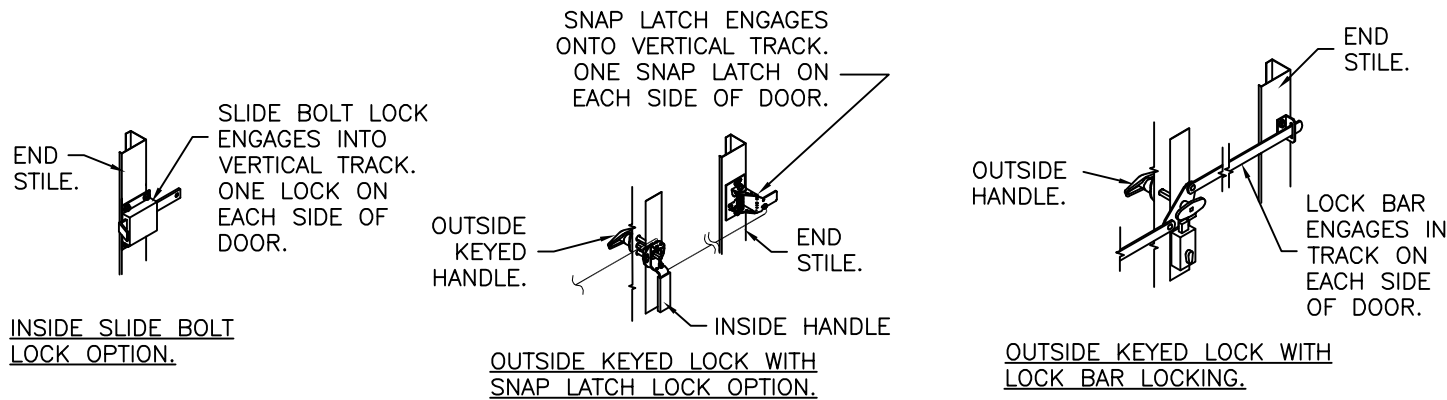


DOOR HEIGHT 'A'	NUMBER OF SECTIONS
UP TO 8'-0"	4
8'-3" THRU 10'-0"	5
10'-3" THRU 12'-0"	6
12'-3" THRU 14'-0"	7
14'-3" THRU 16'-0"	8
16'-3" THRU 18'-0"	9



JAMES D. WHEELER
LICENSE
No. 91932
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Jim Wheeler
DESIGNED BY: Jim Wheeler
Date: 2026.08.20 10:39:06 -04'00'

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

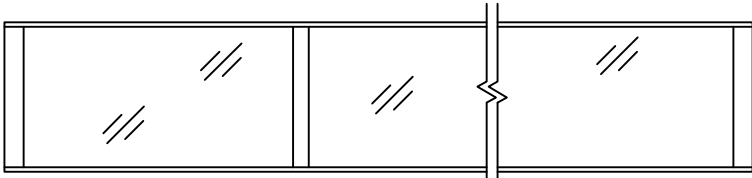


DESIGN LOADS: +25.0 P.S.F. & -25.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -37.5 P.S.F.

Unless Stated Otherwise
TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2°
Unless Stated Otherwise
DIMENSIONS ARE IN INCHES.

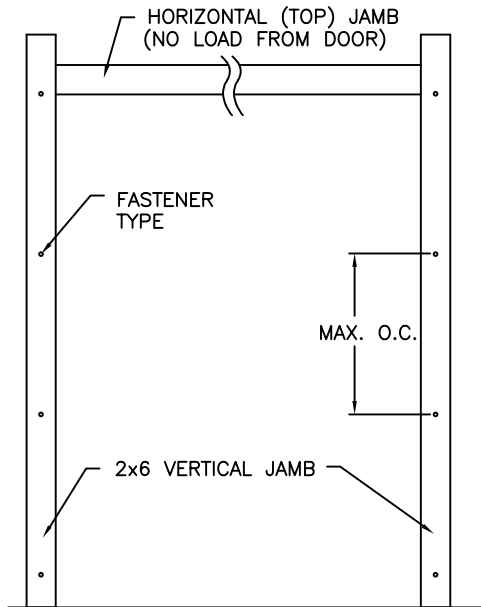
MANUFACTURING PRODUCT CODE C-PAN-1E448		PART NO.: N/A	
WINDLOAD RATING W4 DP25		DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD	
DRAWN BY: RH	DATE: 7/19/16	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: -----	SHEET 1 OF 4	VER: IBC
DWG. NO.: 105077			

FLORIDA PRODUCT APPROVAL 48404.4

4		3		2		1					
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL) MODELS 524, 520/ 224/ C4ST, C0ST INSULATED MODELS 524S, 520S, 524V/ 224V, 224S/ C4SS, C0SS, C4SV				SHEET: 2 OF 4		REVISIONS					
				REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION		
				02	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.		
THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (FBC / IBC CHAPTER 16).				STANDARD ASSEMBLY CONSTRUCTION: OPTIONAL LITES WITH DSB OR TEMPERED INSULATED GLAZING AVAILABLE. OPTIONAL FULL VISION SECTIONS WITH DSB OR BETTER GLAZING AVAILABLE. THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT <u>DOES NOT</u> MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC). NON-IMPACT-RESISTANT FULL VISION SECTION OPTION  OPTIONAL ALUMINUM FULL VISION WINDOW LITE SECTIONS AVAILABLE (1/8" DSB, 1/8" ACRYLIC, 1/4" WIRE, 1/2" INSUL. OR BETTER). FULL VISION SECTIONS TO HAVE SAME REINFORCEMENT AS OTHER SECTIONS. OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606.				STANDARD ASSEMBLY DETAILS			
DESIGN ENGINEER: JAMES D. WHEELER, P.E. FLORIDA LICENSE No. 91932				DESIGN LOADS: +25.0 P.S.F. & -25.0 P.S.F. TEST LOADS: +37.5 P.S.F. & -37.5 P.S.F.				MANUFACTURING PRODUCT CODE C-PAN-1E448			
				Unless Stated Otherwise TOLERANCES are .0 = ±.031 .00 = ±.015 .000 = ±.005 .0000 = ±.001 Degrees = ±1/2' Unless Stated Otherwise DIMENSIONS ARE IN INCHES.				8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853		PART NO.: N/A	
				CORPORATION		WINDLOAD RATING W4 DP25					
				DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD							
				DRAWN BY: RH		DATE: 7/19/16		SCALE: NTS		DWG. B	
				CHECKED BY: SH		DATE: -----		SHEET 2 OF 4		SIZE	
				DWG. NO.: 105077		VER: IBC					
FLORIDA PRODUCT APPROVAL 48404.4											

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
MODELS 524, 520/ 224/ C4ST, C0ST
INSULATED MODELS 524S, 520S, 524V/ 224V, 224S/ C4SS, C0SS, C4SV

SHEET:		REVISIONS					
3 OF 4		REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
		02	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.



JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +250 LB & -250 LB. PER LINEAR FOOT OF JAMB.
3. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
4. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

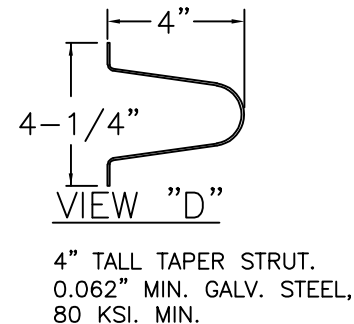
NOTE: 2x6 WOOD JAMBS ARE NOT REQUIRED WITH CONTINUOUS ANGLE MOUNT TRACK. HOWEVER, IF DESIRED ON STEEL JAMBS OR CONCRETE OR BLOCK WALLS, APPROVED FASTENERS AS DETAILED BELOW SHOULD BE INCREASED IN LENGTH BY 1-1/2" AND INSTALLED DIRECTLY THROUGH THE ANGLE AND 2x6 WOOD JAMBS INTO THE STEEL JAMBS OR CONCRETE OR BLOCK WALLS. ANCHORS CAN BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE. CONTINUOUS ANGLE TRACK CAN BE ANCHORED DIRECTLY TO GROUT REINFORCED BLOCK WALL OR 3,000 PSI MIN. CONCRETE COLUMN OR STEEL JAMBS.

FASTENER ATTACHMENT TO SUPPORTING STRUCTURE SCHEDULES

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
HOLLOW BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	6-1/2"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	11"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	9-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	9"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	20"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	21-3/4"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER	9"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER	16"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER	19"	1" O.D.

* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932



OPTIONAL INSULATION
(SEE MODEL EXPLANATION)

SECTIONS ARE
1-7/8" THK
PANELS ROLL
FORMED OF 24GA.
MIN. HOT DIPPED
GALVANIZING,
ROLL FORMED
STEEL.

SECTION A - A

DESIGN LOADS: +25.0 P.S.F. & -25.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -37.5 P.S.F.

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Clopay
CORPORATION

8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD			
DRAWN BY: RH	DATE: 7/19/16	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: -----	SHEET 3 OF 4	SIZE
DWG. NO.: 105077	VER: IBC		

ADJUSTABLE TOP ROLLER
BRACKET OF 12 GA. GALV.
STEEL. EACH BRACKET
ATTACHED w/(4) #14x5/8"
SHEET METAL SCREWS.

ONE 4" T-STRUT PER SECTION.
SEE VIEW "D". EACH T-STRUT
ATTACHED AT EACH STILE
LOCATION WITH (2) 1/4"x3/4"
SELF TAPPING SCREWS [(4) AT
EACH DOUBLE END STILE].
(T-STRUTS ON FULL VISION
SECTIONS TO BE ATTACHED WITH
1/4"x1" SELF TAPPING SCREWS.)

ROLLER (CENTER) HINGES
OF 14 GA. GALV. STEEL.
EACH FASTENED TO END
STILES w/(4) #14x5/8"
SHEET METAL SCREWS.

ROLLER (END) HINGE OF
14 GA. GALV. STEEL.
EACH FASTENED TO END
STILES w/(4) #14x5/8"
SHEET METAL SCREWS
AND w/(2) 1/4"x3/4"
SELF TAPPING SCREWS.

BOTTOM ROLLER BRACKET
OF 12 GA. GALV. STEEL
FASTENED w/ (4) #14x5/8"
SHEET METAL SCREWS

ALUMINUM EXTRUSION
AND VINYL WEATHERSTRIP

MANUFACTURING PRODUCT CODE
C-PAN-1E448

PART NO.: N/A

WINDLOAD RATING
W4 DP25

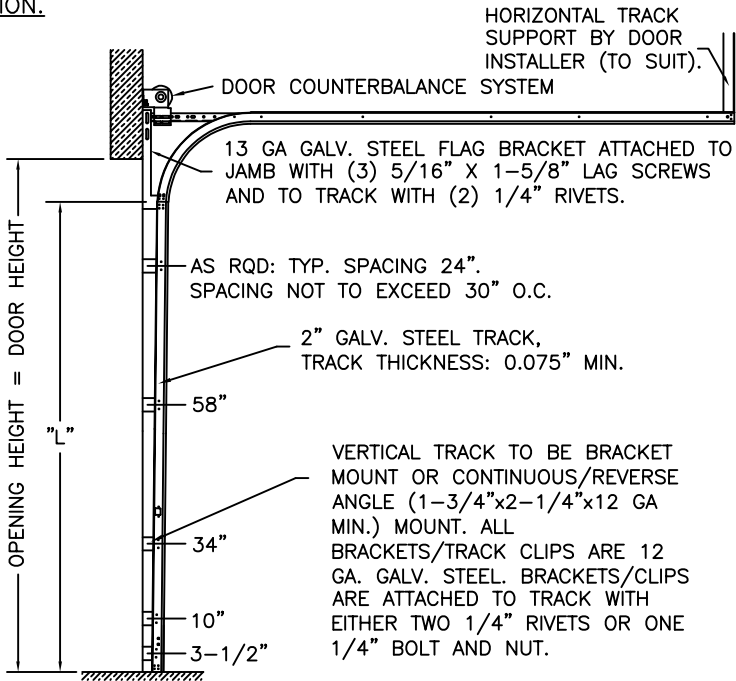
FLORIDA PRODUCT APPROVAL 48404.4

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
MODELS 524, 520/ 224/ C4ST, C0ST
INSULATED MODELS 524S, 520S, 524V/ 224V, 224S/ C4SS, C0SS, C4SV

SHEET:		REVISIONS					
4 OF 4		REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
		02	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

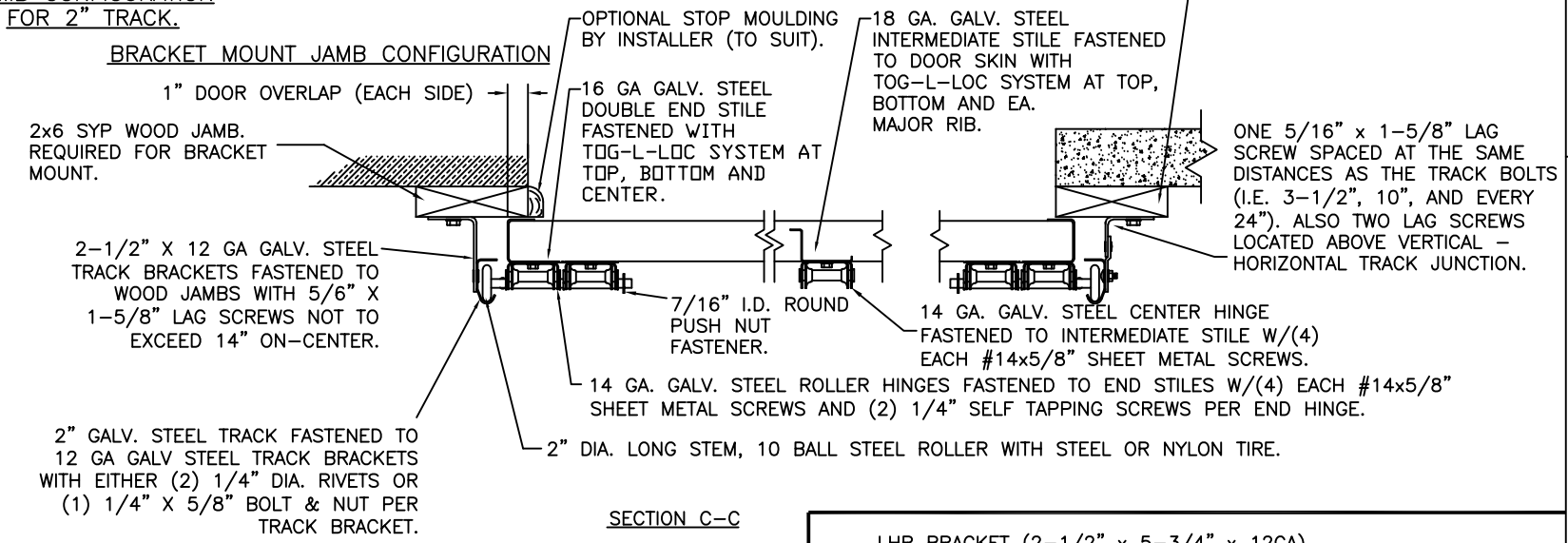
2" TRACK CONFIGURATION.

NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"
16'-6"	190"
17'-0"	196"
17'-6"	202"
18'-0"	208"

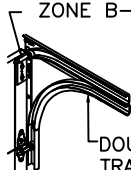
JAMB CONFIGURATION FOR 2" TRACK.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

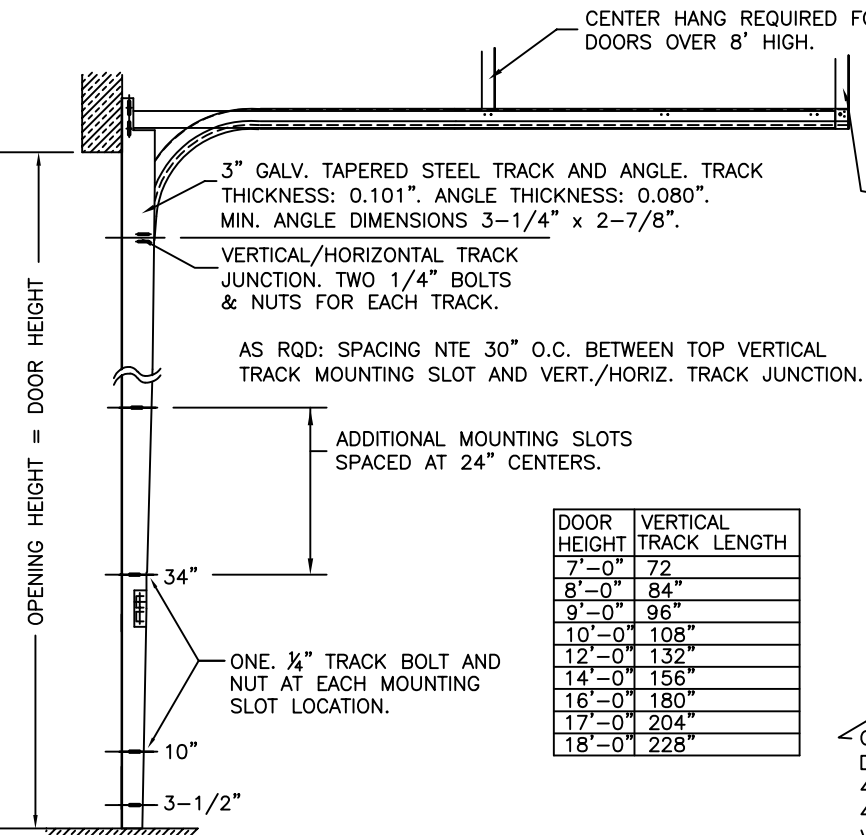
LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.



DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)

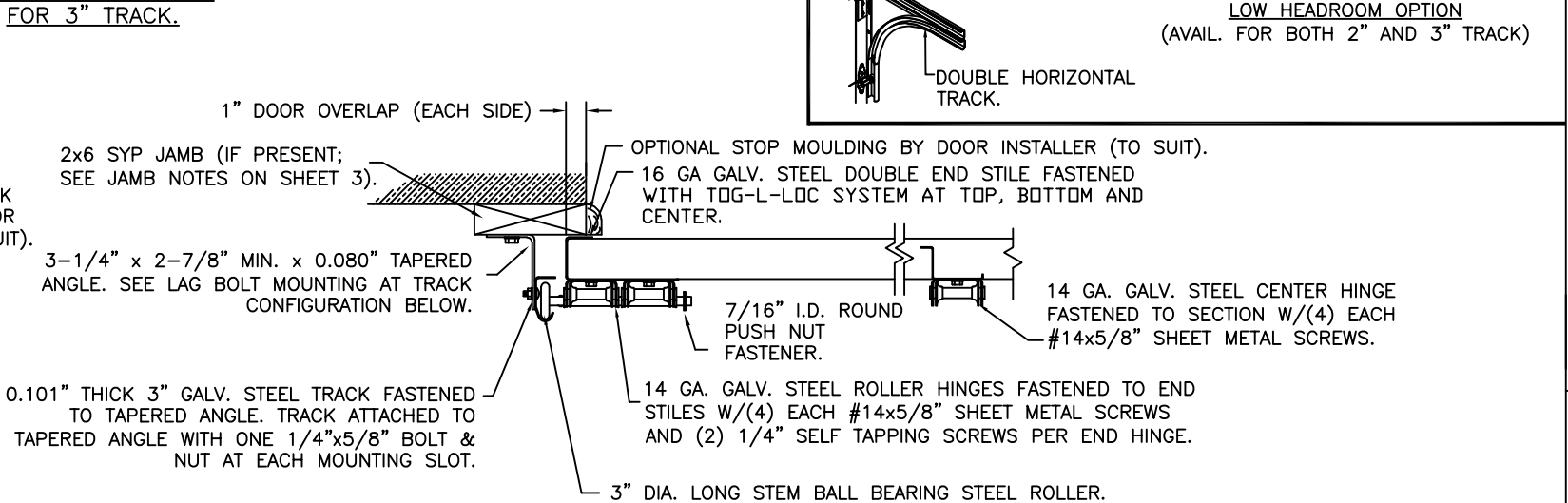
3" TRACK CONFIGURATION.

NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



DOOR HEIGHT	VERTICAL TRACK LENGTH
7'-0"	72"
8'-0"	84"
9'-0"	96"
10'-0"	108"
12'-0"	132"
14'-0"	156"
16'-0"	180"
17'-0"	204"
18'-0"	228"

JAMB CONFIGURATION FOR 3" TRACK.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

DESIGN LOADS: +25.0 P.S.F. & -25.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -37.5 P.S.F.

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DRAWN BY: RH	DATE: 7/19/16
CHECKED BY: SH	DATE: -----
DWG. NO.: 105077	VER: IBC

MANUFACTURING PRODUCT CODE
C-PAN-1E448

PART NO.: N/A

WINDLOAD RATING
W4 DP25

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

FLORIDA PRODUCT APPROVAL 48404.4