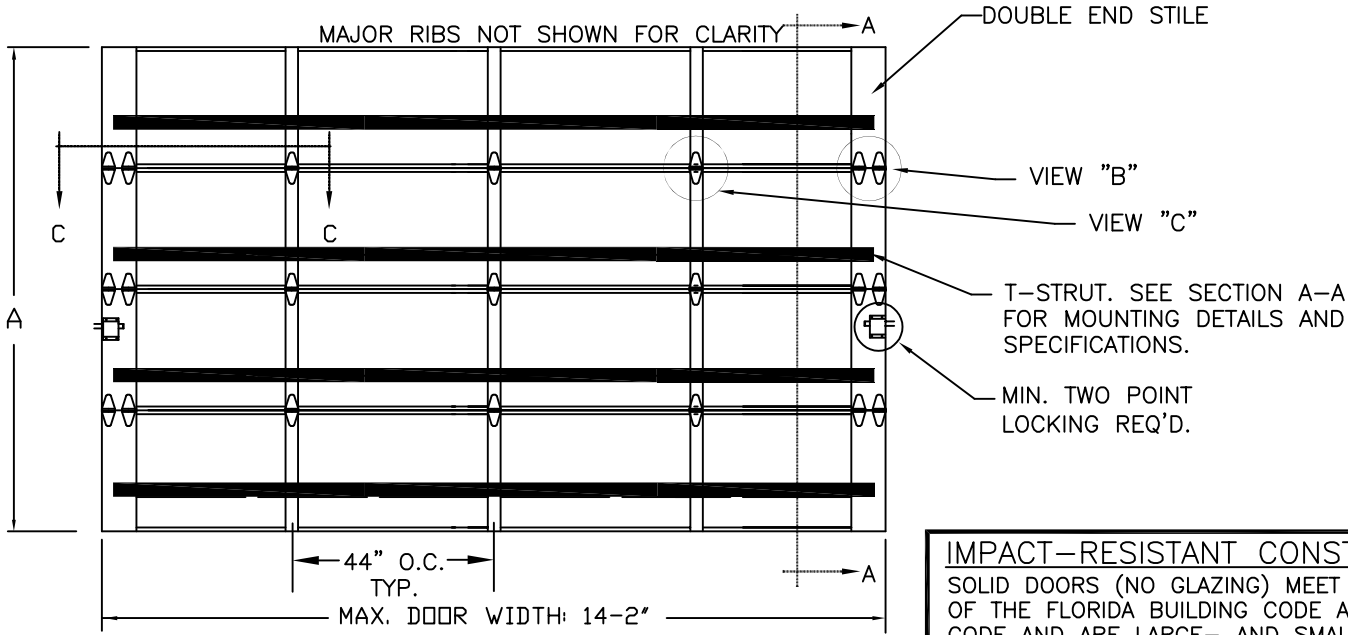


MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
524(24 ga.), 520(20 ga.)/ 224(24 ga.)/ C4ST(24 ga.), COST(20 ga.) < NON-INSULATED
524V(24 ga.), 520V(20 ga.)/ 224V(24 ga.)/ C4STV(24 ga.), COSTV(20 ga.) < INSULATED

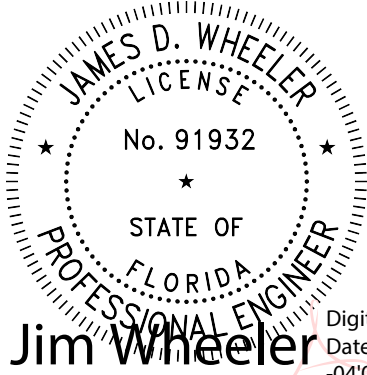
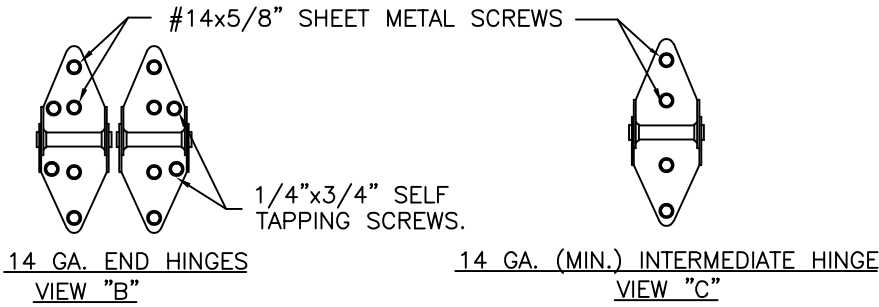
SHEET:
1 OF 3

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
02	-	4/17/15	-	SH	REVISED LAYOUT TO 3 PAGES
03	-	8/10/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART



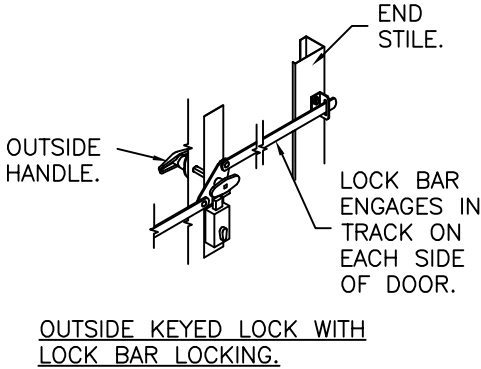
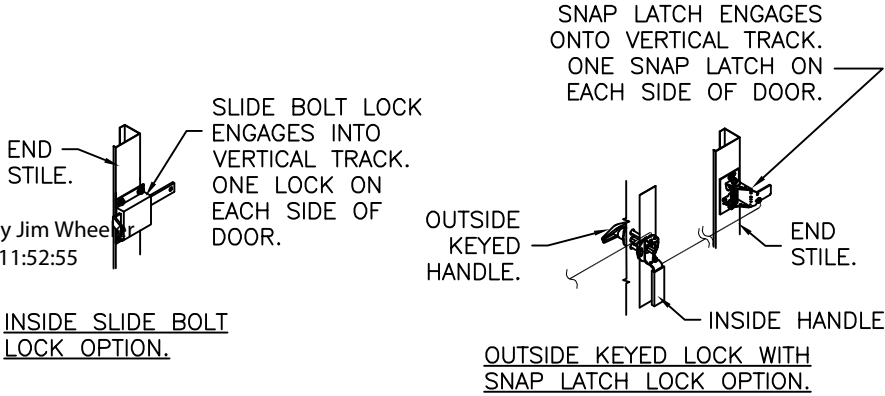
IMPACT-RESISTANT CONSTRUCTION:
SOLID DOORS (NO GLAZING) MEET THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE AND ARE LARGE- AND SMALL-MISSILE IMPACT RESISTANT.

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



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

Digitally signed by Jim Wheeler
Date: 2026.08.20 11:52:55
-04'00'



DESIGN LOADS: +38.0 P.S.F. & -42.0 P.S.F.
TEST LOADS: +57.0 P.S.F. & -63.0 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.



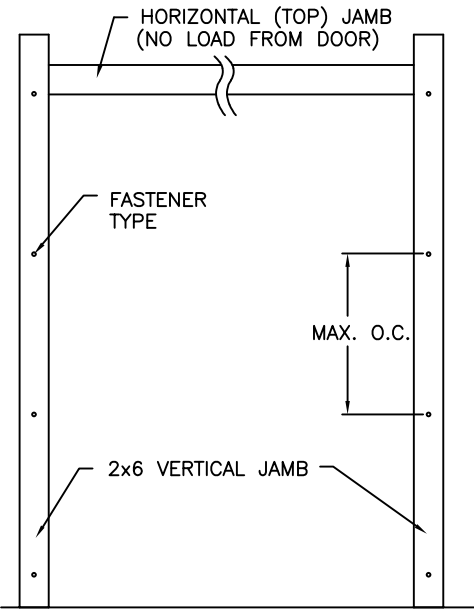
8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

DESCRIPTION: COMMERCIAL RIBBED DOORS UP TO 14'2"W			
DRAWN BY: SH	DATE: 4/1/14	SCALE: NTS	DWG. SIZE B
CHECKED BY: MWW	DATE: 4/17/15	SHEET 1 OF 3	
DWG. NO.: 104924	VER: IBC		

MANUFACTURING PRODUCT CODE C-PAN-1E448
PART NO.: N/A
WINDLOAD RATING W6 DP38T

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

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
524(24 ga.), 520(20 ga.)/ 224(24 ga.)/ C4ST(24 ga.), COST(20 ga.) < NON-INSULATED
524V(24 ga.), 520V(20 ga.)/ 224V(24 ga.)/ C4STV(24 ga.), COSTV(20 ga.) < INSULATED



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 +266 LB & -294 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.

SECTIONS ARE 1-7/8" THICK
PANELS ROLL FORMED OF .022" MIN.
HOT DIPPED G-40 GALVANIZING,
ROLL FORMED STEEL.

OPTIONAL 1# POLYSTYRENE INSULATION
(SEE MODEL EXPLANATION)

TONGUE & GROOVE JOINT.

ADJUSTABLE TOP ROLLER BRACKET
OF 12 GA. GALV. STEEL, INSTALLED
ON DOOR WITH (4) #14 X 5/8" LG
SHEET METAL SCREWS

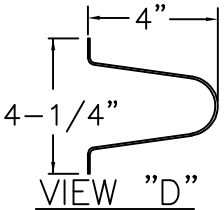
ONE 4" T-STRUT PER
SECTION. (SEE VIEW "D")
EACH T-STRUT ATTACHED
AT EACH STILE LOCATION
WITH (2) 1/4"x3/4" SELF
TAPPING SCREWS.

END HINGE. SEE DETAILS
AT VIEW "B" ON SHEET 1.

(2) STACKED LHR BRACKETS USED
AS INNER BOTTOM BRACKET (NOT
SHOWN).

BOTTOM ROLLER BRACKET OF 12 GA.
MIN. GALV. STEEL, FASTENED WITH
(4) #14 X 5/8" LG SHT. MTL.
SCREWS

BOTTOM SECTION REINFORCED
WITH TEMPERED ALUMINUM
EXTRUSION WITH INTEGRAL
RETAINER FOR FLEXIBLE VINYL
ASTRAGAL



4" TALL TAPER STRUT.
0.057" MIN. GALV. STEEL,
50 KSI. MIN.

SECTION A-A (SIDE VIEW)

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	6-1/4"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	10-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	9"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	8-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	18-3/4"	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	20-1/2"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	8-1/2"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	15"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	18"	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

DESIGN LOADS: +38.0 P.S.F. & -42.0 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 DOORS UP TO 14'2"W

DRAWN BY: SH

DATE: 3/14/14

SCALE: NTS

DWG. SIZE **B**

CHECKED BY: MWW

DATE: 1/2/15

SHEET 2 OF 3

DWG. NO.: 104924

VER: IBC

MANUFACTURING PRODUCT CODE
C-PAN-1E448

PART NO.: N/A

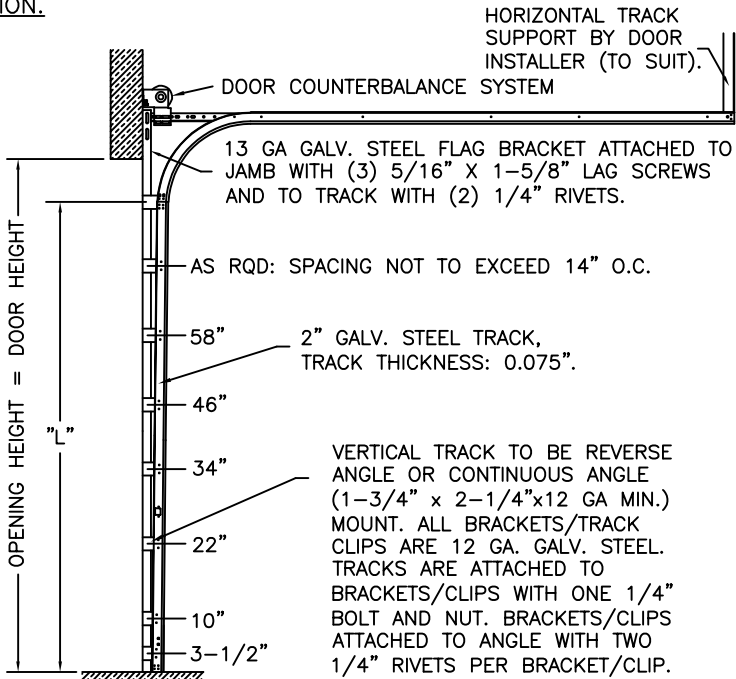
WINDLOAD RATING
W6 DP38T

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

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
524(24 ga.), 520(20 ga.)/ 224(24 ga.)/ C4ST(24 ga.), COST(20 ga.) < NON-INSULATED
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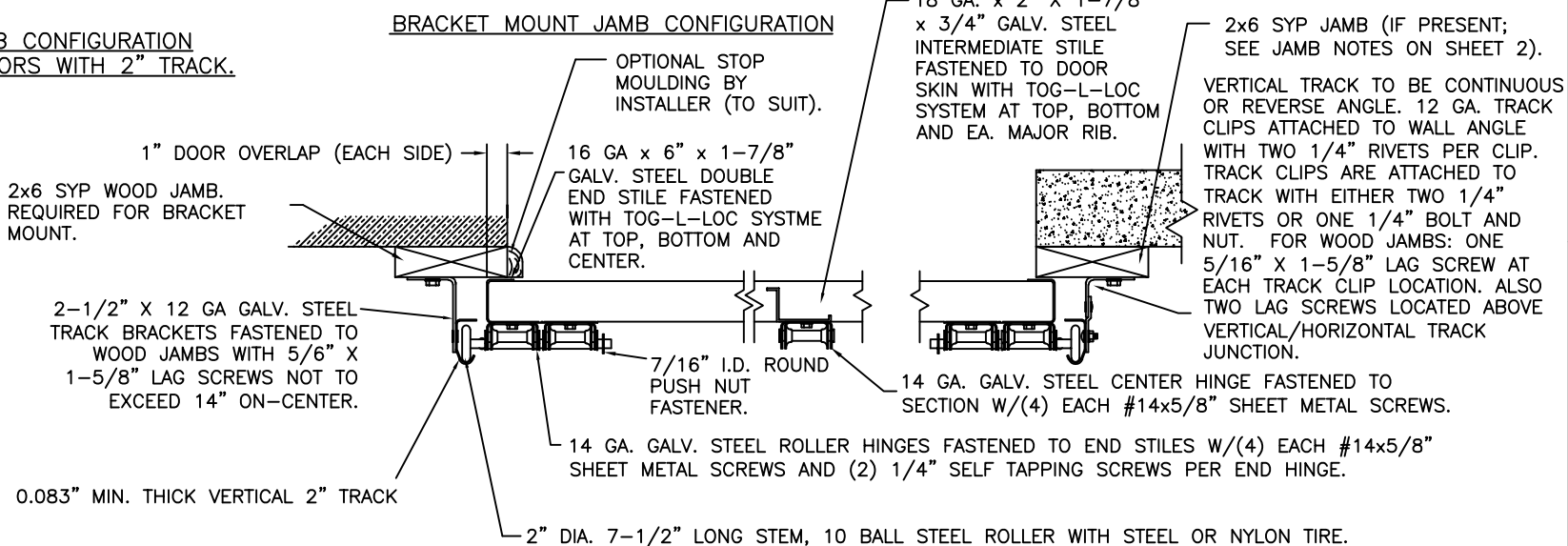
2" TRACK CONFIGURATION.

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 DOORS WITH 2" TRACK.

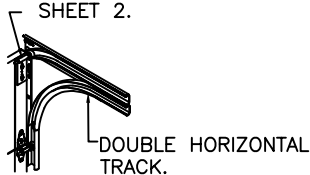


SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

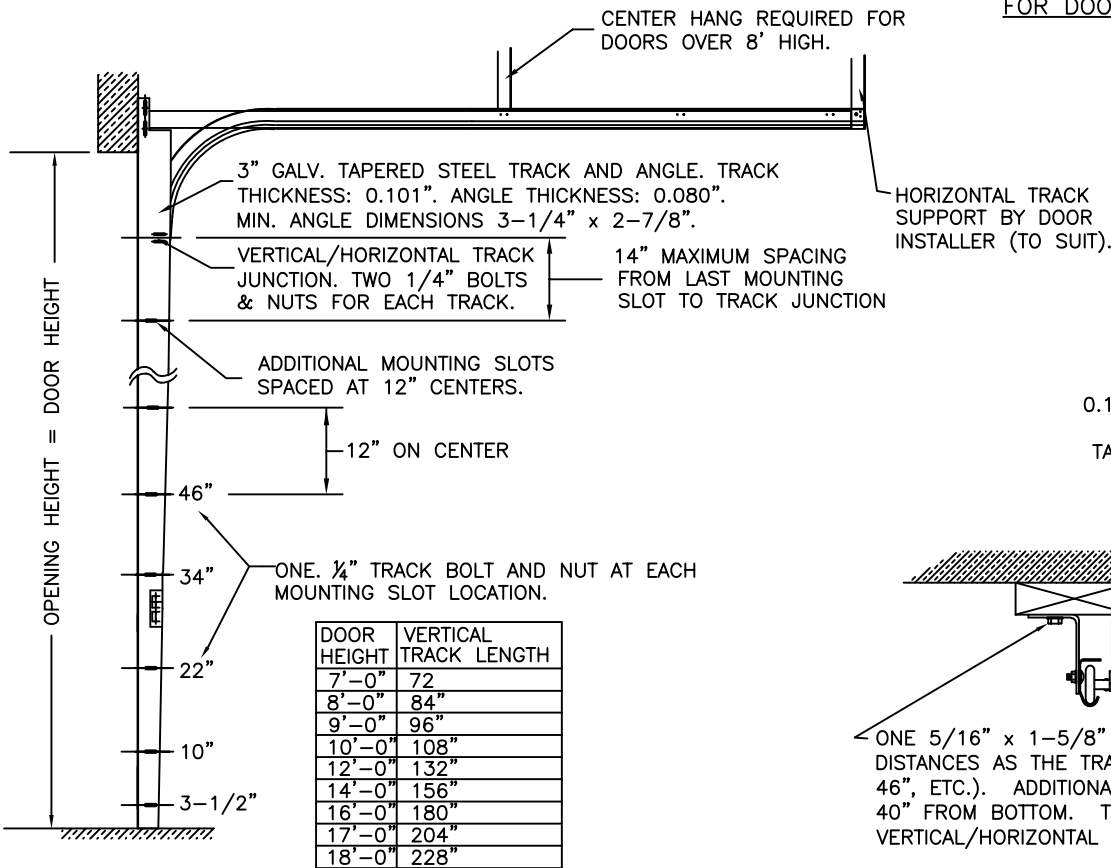
LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS NOTED ON SHEET 2.

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

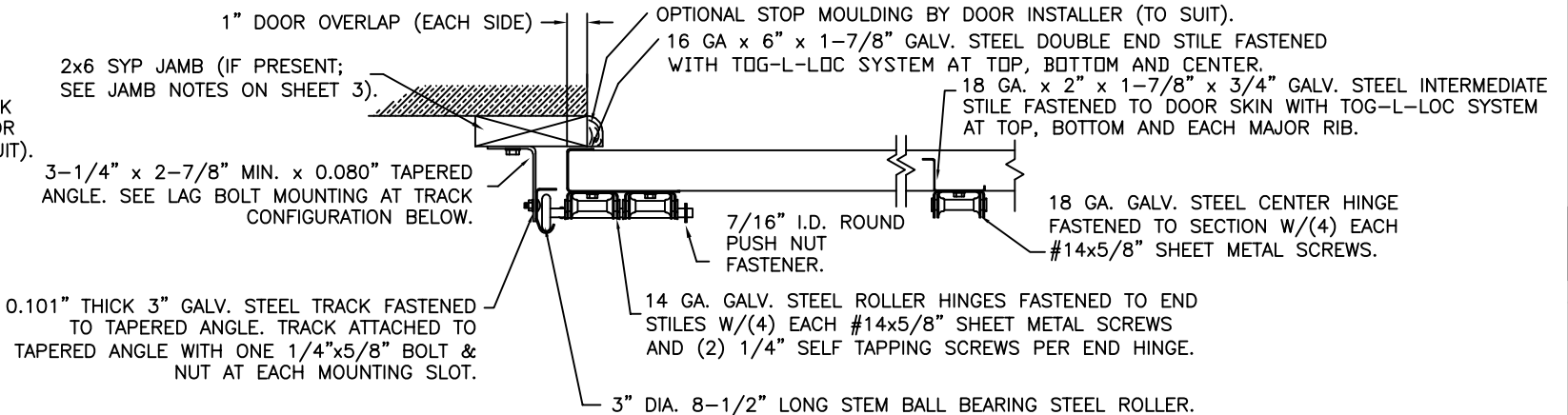


3" TRACK CONFIGURATION.

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.



JAMB CONFIGURATION FOR DOORS WITH 3" TRACK.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

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SHEET 3 OF 3

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