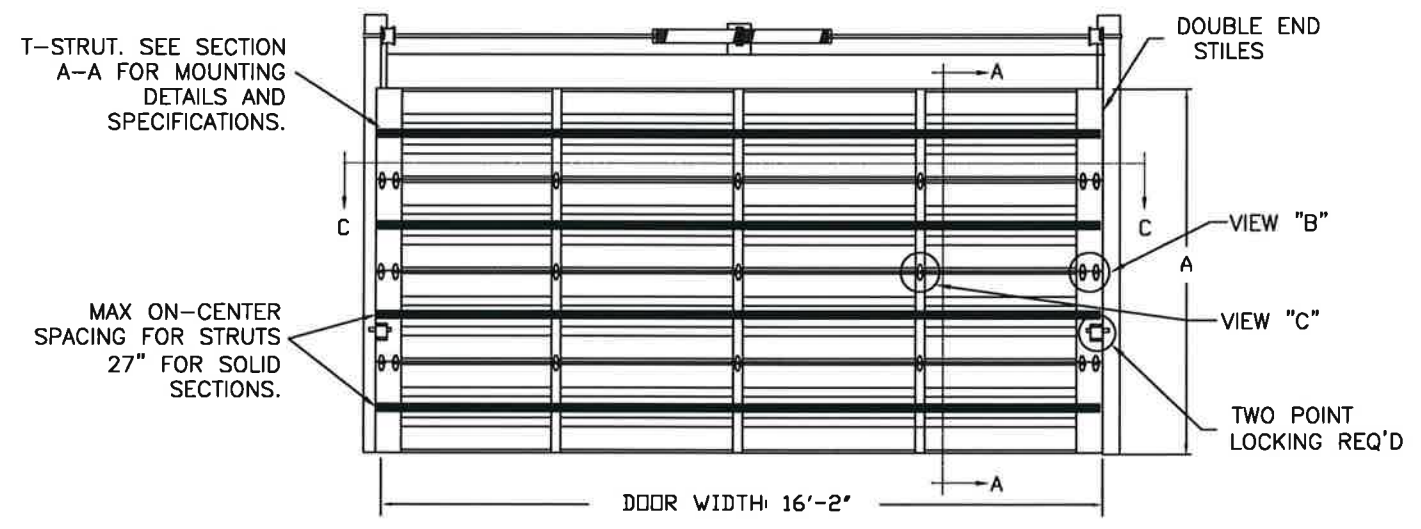


MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
 MODELS 524, 520/ 224/ C4ST, COST  
 INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, COSS, C4SV

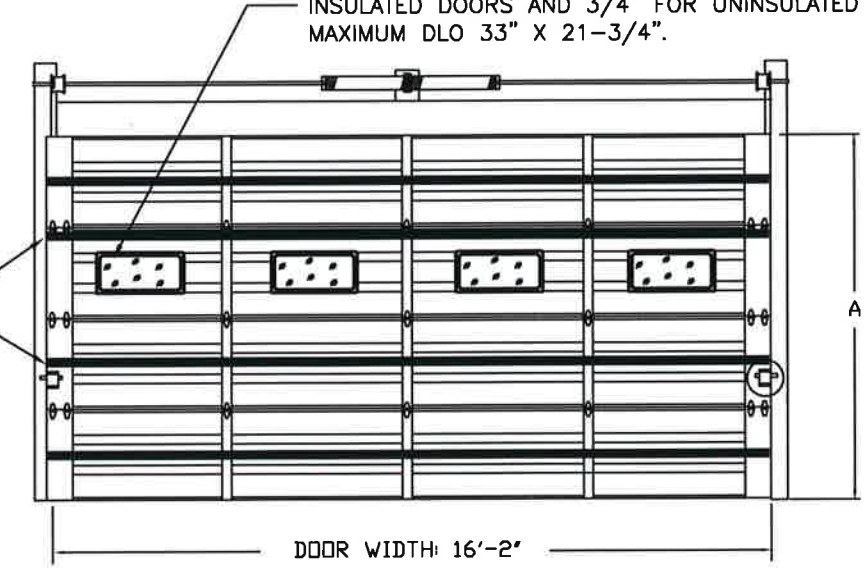
REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	-	2/1/17	-	-	INITIAL RELEASE
01	-	02/2022	-	JDW	REVISED FOR TDI.

OPTIONAL SINGLE PANE OR INSULATED WINDOW LITES. ALL PANES ANNEALED GLASS OR STRONGER. SINGLE PANES 3/8" OR THICKER. INSULATED WINDOWS 1/2" THICK, CONSISTING OF (2) PANES 3/8" THICK. FRAMES SECURED WITH QTY. (16) #8-11 CROSS RECESSED PAN HEAD, TYPE A TAPPING SCREW WITH (5) SCREWS ON EACH HORIZONTAL EDGE AND (3) ON EACH VERTICAL EDGE. SCREW LENGTH 1-1/2" FOR INSULATED DOORS AND 3/4" FOR UNINSULATED DOORS. MAXIMUM DLO 33" X 21-3/4".

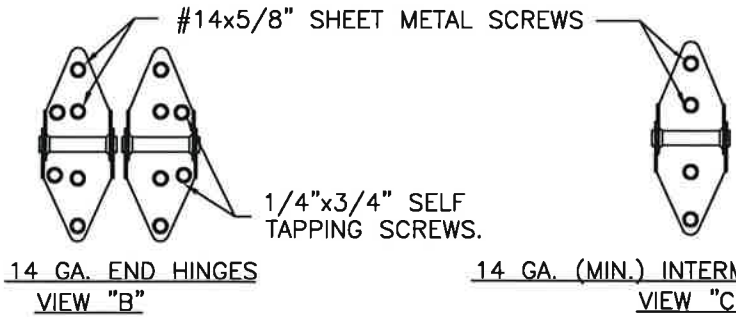
THIS PRODUCT COMPLIES WITH THE 2018 IBC/IRC.



T-STRUT ON 3RD SECTION MOUNTED OVER HINGE LEAF. MAX. T-STRUT SPACING 32\".

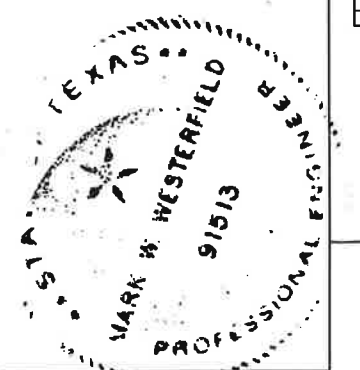


MAX ON-CENTER SPACING FOR STRUTS 27" FOR SOLID SECTIONS.

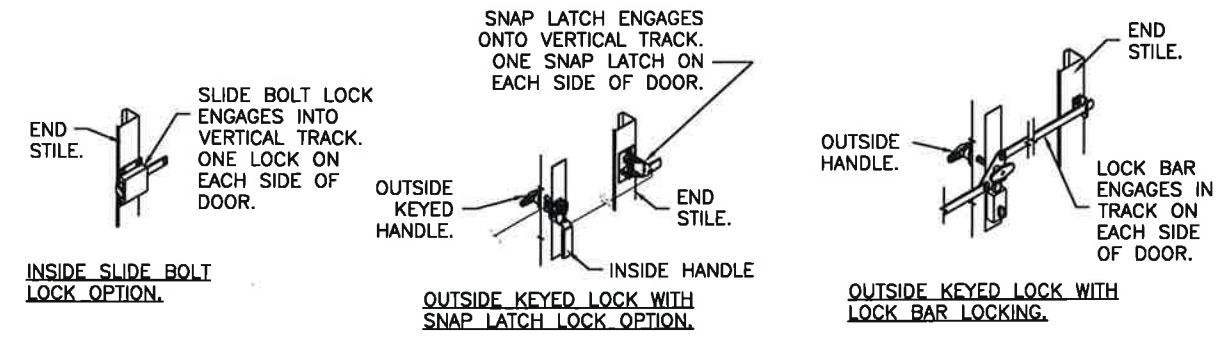


DOOR WIDTH	NUMBER OF CENTER STILES/ HINGES
12'-3" THRU 13'-2"	2
13'-3" THRU 16'-2"	3

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
18'-3" THRU 20'-0"	10



*Mark Westerfield*  
5/31/22



DESIGN LOADS: +25 & -25 P.S.F.  
 TEST LOADS +37.5 & -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.

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

MANUFACTURING PRODUCT CODE:  
 MPC: C-PAN-1E448

PART NO.: N/A

CLOPAY WINDLOAD RATING  
 W4

DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD

DRAWN BY: RJH	DATE: 2/1/17	SCALE: NTS	DWG. SIZE B
CHECKED BY: -	DATE: -	SHEET 1 OF 4	
DWG. NO.: 105032	VER: TDI		

MARK WESTERFIELD, P.E.  
 FLORIDA P.E. #48495, NC P.E. #23832,  
 TEXAS P.E. #91513

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

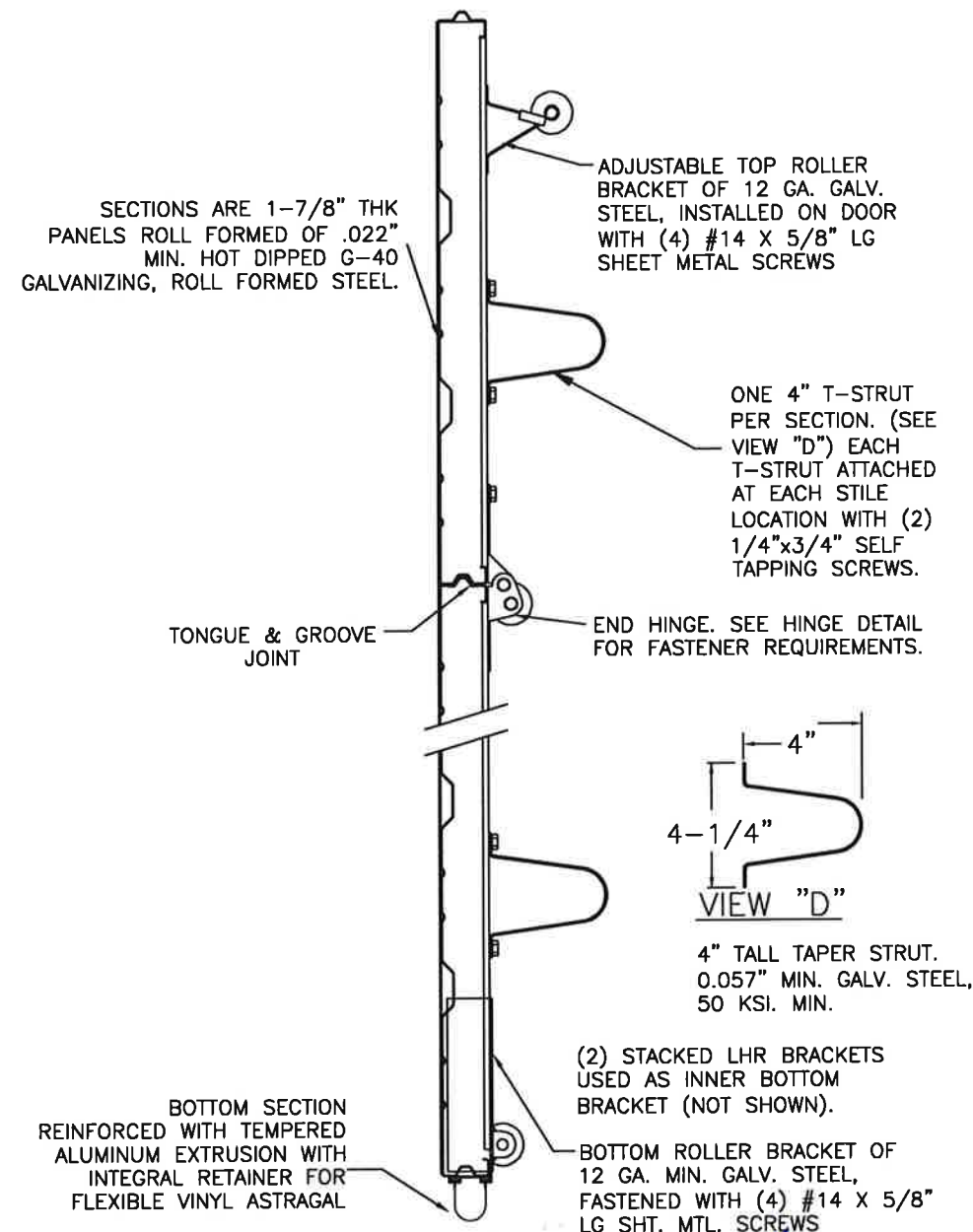
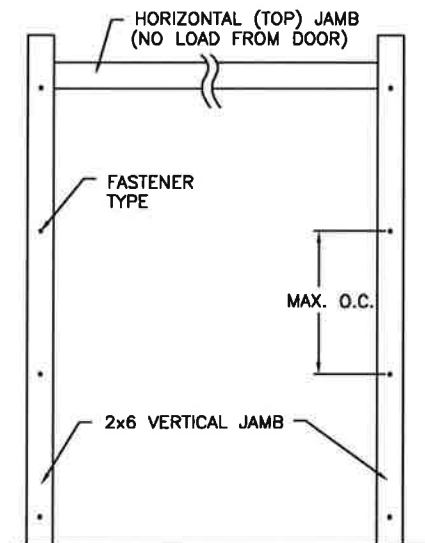
REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
01	-	-	-	-	SEE REVISION HISTORY ON SHEET 1

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 +200 LB & -200 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	8-1/4"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	13-3/4"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	12"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	11-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	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	24"	1" O.D.
14GA STEEL (0.080" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	11-1/2"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	20"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	23-3/4"	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 LOADS: +25 & -25 P.S.F.  
 TEST LOADS +37.5 & -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.

SECTION A - A

MANUFACTURING PRODUCT CODE:  
 MPC: C-PAN-1E448

PART NO.: N/A

CLOPAY WINDLOAD RATING  
 W4

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

DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD

DRAWN BY: RJH DATE: 2/1/17 SCALE: NTS DWG. SIZE B

CHECKED BY: DATE: SHEET 2 OF 4 VER: TDI

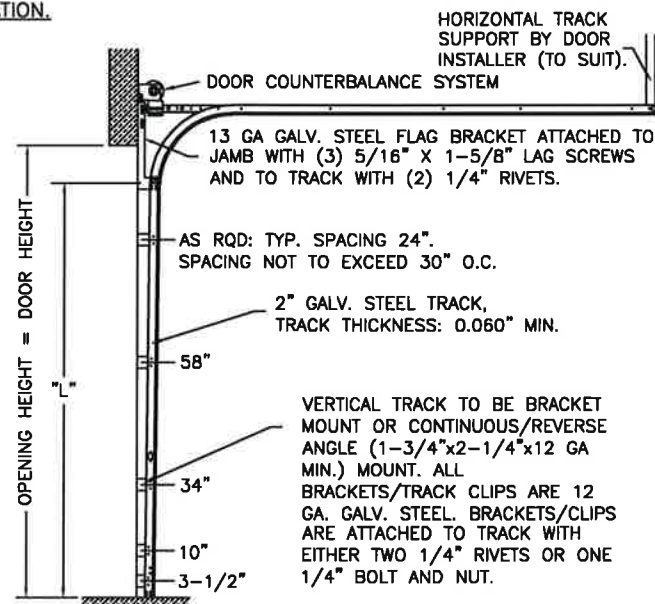
DWG. NO.: 105032

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

REVISIONS					DESCRIPTION
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	
01	-	-	-	-	SEE REVISION HISTORY ON SHEET 1

2" TRACK CONFIGURATION.

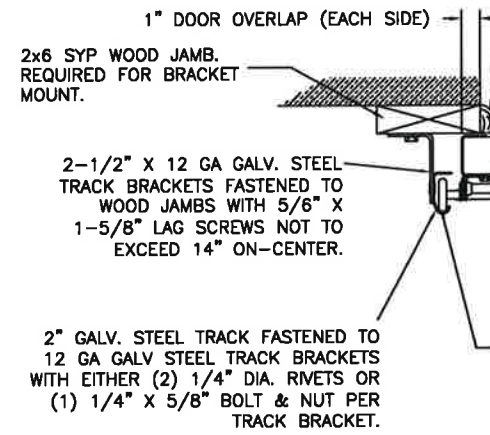
NOTE DOUBLE TRACK LOW HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



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.

BRACKET MOUNT JAMB CONFIGURATION



OPTIONAL STOP MOULDING BY INSTALLER (TO SUIT).

18 GA. GALV. STEEL INTERMEDIATE STILE FASTENED TO DOOR SKIN WITH TOG-L-LOC SYSTEM AT TOP, BOTTOM AND EA. MAJOR RIB.

ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME DISTANCES AS THE TRACK BOLTS (I.E. 3-1/2", 10", AND EVERY 24"). ALSO TWO LAG SCREWS LOCATED ABOVE VERTICAL - HORIZONTAL TRACK JUNCTION.

14 GA. GALV. STEEL CENTER HINGE FASTENED TO INTERMEDIATE STILE W/(4) EACH #14x5/8" SHEET METAL SCREWS.

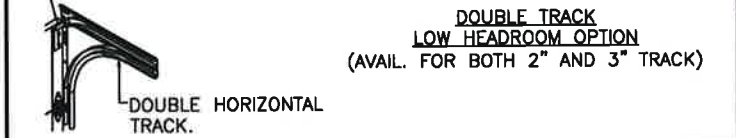
14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS AND (2) 1/4" SELF TAPPING SCREWS PER END HINGE.

2" DIA. LONG STEM, 10 BALL STEEL ROLLER WITH STEEL OR NYLON TIRE.

SECTION C-C

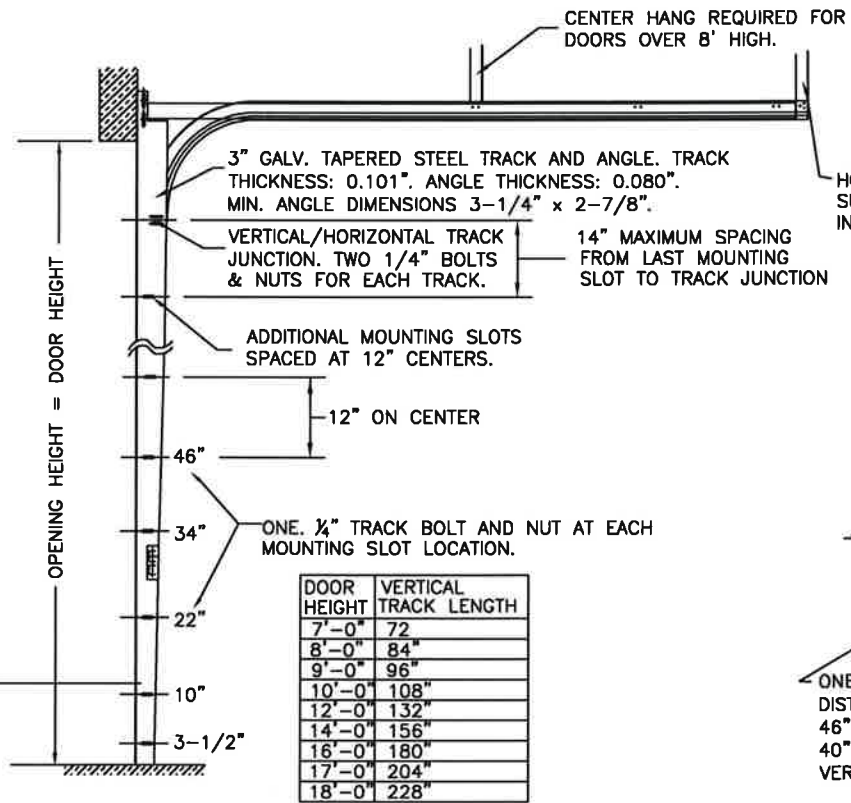
PREPARATION OF JAMBS BY OTHERS.

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.



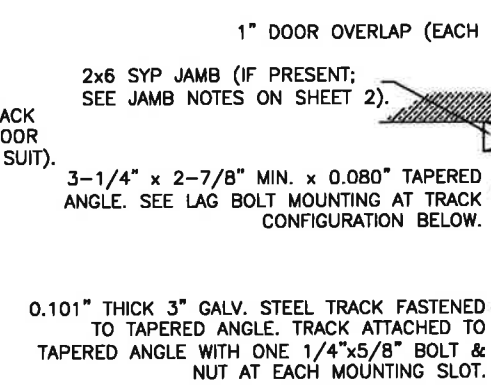
3" TRACK CONFIGURATION.

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 DOORS WITH 3" TRACK.



OPTIONAL STOP MOULDING BY DOOR INSTALLER (TO SUIT).

SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

DESIGN LOADS: +25 & -25 P.S.F.  
 TEST LOADS +37.5 & -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.

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

MANUFACTURING PRODUCT CODE:  
 MPC: C-PAN-5148

PART NO.: N/A

CLOPAY WINDLOAD RATING  
 W4

DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD

DRAWN BY: RJH DATE: 2/1/17 SCALE: NTS DWG. SIZE B

CHECKED BY: - DATE: - SHEET 3 OF 4

DWG. NO.: 105032 VER: TDI

MARK WESTERFIELD, P.E.  
 FLORIDA P.E. #48495, NC P.E. #23832,  
 TEXAS P.E. #91513

5/3/22  
 MARK WESTERFIELD  
 91513  
 PROFESSIONAL ENGINEER

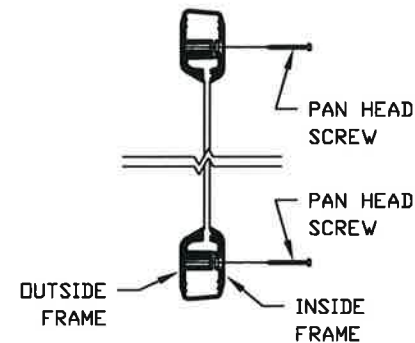
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
 MODELS 524, 520/ 224/ C4ST, COST  
 INSULATED MODELS 524S, 520S, 524V/ 224S/  
 C4SS, COSS, C4SV

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
01	-	-	-	-	SEE REVISION HISTORY ON SHEET 1

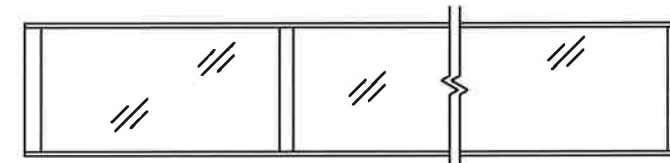
THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC)

STANDARD ASSEMBLY CONSTRUCTION:  
 OPTIONAL LITES WITH DSB OR BETTER 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 DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC).

SECTION B-B  
(NON-IMPACT-RESISTANT  
GLAZING OPTION)



NON-IMPACT-RESISTANT  
FULL VISION SECTION OPTION



OPTIONAL ALUMINUM FULL VISION WINDOW LITE SECTIONS AVAILABLE, SINGLE PANE OR INSULATED. ALL PANES ANNEALED GLASS OR STRONGER. SINGLE PANES 1/8" OR THICKER. INSULATED WINDOWS 1/2" THICK, CONSISTING OF (2) PANES 1/8" THICK. FULL VISION SECTIONS TO HAVE 2" X 2" X 1/4" L-ANGLE HORIZONTAL REINFORCEMENT. L-ANGLES ATTACHED TO THE REINFORCING RIB WITH 4" X 6" OFFSET PLATES AT EVERY HINGE LOCATION AND THE CENTER OF EACH PANEL WITH (2) 1/4" X 5/8" HEX BOLTS AND NUTS. OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606.

STANDARD ASSEMBLY DETAILS

DESIGN LOADS: +25 & -25 P.S.F.  
 TEST LOADS: +37.5 & -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.



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 Mason, OH 45040 USA  
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DESCRIPTION: COMMERCIAL RIBBED DOOR, +/- 25 PSF DESIGN LOAD

DRAWN BY: RJH DATE: 2/1/17 SCALE: NTS DWG. SIZE: B

CHECKED BY: - DATE: - SHEET 4 OF 4

DWG. NO.: 105032 VER: TDI

MANUFACTURING PRODUCT CODE:  
 MPC: C-PAN-1E448

PART NO.: N/A

CLOPAY WINDLOAD RATING  
 W4

MARK WESTERFIELD, P.E.  
 FLORIDA P.E. #48495, NC P.E. #23832,  
 TEXAS P.E. #91513

STATE OF TEXAS  
 5/31/22  
*[Signature]*