

DATE:

ECN NO. APPVD:

REV. NO.

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LAAVILALIKA

ZONE:

**REVISIONS** 

**DESCRIPTION** SEE REVISION HISTORY ON SHEET 1

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL) MODELS 524, 520/ 224/ C4ST, COST

INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, C0SS, C4SV

HORIZONTAL (TOP) JAMB (NO LOAD FROM DOOR)	•
FASTENER TYPE	-•
MAX. O.C.	-•
2x6 VERTICAL JAMB	

## JAMB TO SUPPORTING STRUCTURE ATTACHMENT

ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2×6 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 +300 LB & -300 LB. PER LINEAR

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.

3" TALL x 20 GA. GALV. STEEL (MIN. YIELD STRENGTH 50KSI) U-BAR. ATTACHED ONE AT THE TOP OF EACH SECTION EACH U-BAR ATTACHED WITH (2) 1/4"x3/4" SELF TAPPING SCREWS PER STILE LOCATION. ADJUSTABLE TOP ROLLER BRACKET OF 12 GA. GALV. STEEL, INSTALLED ON DOOR WITH (4) #14 SECTIONS ARE 1-7/8" THK PANELS X 5/8" LG SHEET METAL SCREWS. ( 2 ROLL FORMED OF .022" MIN. HOT BRACKETS PER SIDE) DIPPED G-40 GALVANIZING, ROLL FORMED STEEL. 1 - 7/8" VIEW 3" TALL U-BAR 20 GA. GALV. STEEL 4" TALL TAPER STRUT. 0.062" MIN. GALV. STEEL, 80 KSI. MIN. END HINGES OF MIN. 14 GA. GALV. STEEL, FASTENED WITH (4) #14 X 5/8" LG. SHT. MTL. SCREWS AND (2) 1/4"x3/4" SELF-TAPPING SCREWS. QTY-2 HINGES PER SIDE 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]. 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

## FASTENER ATTACHMENT TO SUPPORTING STRUCTURE SCHEDULES

1		MAXIMUM	1 '
		ON-CENTER	
		DISTANCE	STEEL
		BETWEEN	WASHERS
BUILDING TYPE	FASTENER TYPE	FASTENERS*	REQUIRED?
HOLLOW BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	5-1/2"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	9"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	8"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	7-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	16-3/4"	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	18"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	7-1/2"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	13-1/4"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	15-3/4"	1" O.D.
-	GROUT FILLED BLOCK WALL 2000 PSI MIN. CONCRETE 2000 PSI MIN. CONCRETE 2000 PSI MIN. CONCRETE 4000 PSI MIN. CONCRETE WOOD FRAME (SYP 0.55 SG) 14GA STEEL (0.060" MIN.) 12GA STEEL (0.105" MIN.)	HOLLOW BLOCK WALL  1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR  GROUT FILLED BLOCK WALL  1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR  2000 PSI MIN. CONCRETE  1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR  2000 PSI MIN. CONCRETE  1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR  2000 PSI MIN. CONCRETE  3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR  4000 PSI MIN. CONCRETE  3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR  WOOD FRAME (SYP 0.55 SG) 1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE  14GA STEEL (0.060" MIN.)  1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	BUILDING TYPE

3

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

> $.0 = \pm .031$  $.00 = \pm .015$

 $.000 = \pm .005$ 

 $.0000 = \pm .001$ 

Degrees =  $\pm 1/2^{\circ}$ 

Glopay TOLERANCES are Building Products Company

SECTION A-A (SIDE VIEW)

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

CLOPAY WINDLOAD RATING

TDI

MANUFACTURING PRODUCT CODE:

MPC: C-PAN-1E448

B

DESCRIPTION: COMMERCIAL RIBBED DOOR, +25/-25 PSF DESIGN LOAD DRAWN BY: RJH DATE: 2/2/17 SCALE: NONE DWG. T SHEET 2 OF 4 SIZE CHECKED BY: -DATE: -

Unless Stated Otherwise DIMENSIONS ARE IN INCHES. DWG. NO.: 105196

MARK WESTERFIELD, P.E. S

FLORIDA P.E. No. 48495, NC P.E. #23832, TEXAS P.E. #91513

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VER:

3 2 **REVISIONS** MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL) MODELS 524, 520/ 224/ C4ST, COST REV. NO. ZONE: ECN NO. APPVD: DATE: DESCRIPTION INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, C0SS, C4SV 00 SEE REVISION HISTORY ON SHEET 1 LHR BRACKET  $(2-1/2" \times 5-3/4" \times 12GA)$ ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. DOUBLE TRACK 3" TRACK CONFIGURATION. LOW HEADROOM OPTION JAMB CONFIGURATION FOR DOORS WITH 3" TRACK CENTER HANG REQUIRED FOR DOUBLE HORIZONTAL NOTE DOUBLE TRACK LOW DOORS OVER 8' HIGH. HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF OPTIONAL STOP MOULDING BY DOOR INSTALLER (TO SUIT). TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE 1" DOOR OVERLAP (EACH SIDE) --- |--16 GA x 6" x 1-7/8" GALV. STEEL DOUBLE END STILE FASTENED WITH TOG-L-LOC SYSTEM AT TOP, BOTTOM AND CENTER.

18 GA. × 2" × 1-7/8" × 3/4" GALV. STEEL INTERMEDIATE

STILE FASTENED TO DOOR SKIN WITH TOG-L-LOC SYSTEM OPTIONS.
TRACK CONFIGURATION 2x6 SYP JAMB (IF PRESENT; 3" GALV. TAPERED STEEL TRACK AND ANGLE. TRACK SEE JAMB NOTES ON SHEET 2). THICKNESS: 0.101". ANGLE THICKNESS: 0.080". HORIZONTAL TRACK ABOVE THE DOOR OPENING DOES NOT AFFECT THE MIN. ANGLE DIMENSIONS 3-1/4" x 2-7/8". SUPPORT BY DOOR AT TOP, BOTTOM AND EACH MAJOR RIB. WIND LOAD RATING. INSTALLER (TO SUIT). VERTICAL/HORIZONTAL TRACK 14" MAXIMUM SPACING 3-1/4" x 2-7/8" MIN. x 0.080" TAPERED JUNCTION. TWO 1/4" BOLTS & NUTS FOR EACH TRACK. FROM LAST MOUNTING ANGLE. SEE LAG BOLT MOUNTING AT TRACK SLOT TO TRACK JUNCTION CONFIGURATION BELOW. 7/16" I.D. ROUND PUSH NUT DOOR ADDITIONAL MOUNTING SLOTS SPACED AT 12" CENTERS. 0.101" THICK 3" GALV. STEEL TRACK FASTENED -TO TAPERED ANGLE. TRACK ATTACHED TO 14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS 12" ON CENTER AND (2) 1/4" SELF TAPPING SCREWS PER END HINGE. TAPERED ANGLE WITH ONE 1/4"x5/8" BOLT & NUT AT EACH MOUNTING SLOT. - 3" DIA. 8-1/2" LONG STEM BALL BEARING STEEL ROLLER. SECTION C-C ONE. ¼" TRACK BOLT AND NUT AT EACH PREPARATION OF JAMBS BY OTHERS. MOUNTING SLOT LOCATION. MANUFACTURING PRODUCT CODE: DESIGN LOADS: +25 & -25 P.S.F. DOOR VERTICAL HEIGHT TRACK LENGTH MPC: C-PAN-1E448 TEST LOADS: +37.5 & -37.5 P.S.F. Unless Stated Otherwise 8585 Duke Boulevard CLOPAY WINDLOAD RATING Mason, OH 45040 USA Tel. No. 513-770-4800 **Lilopay** TOLERANCES ore ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME Fax No. 513-770-4853 Building Products Company  $.0 = \pm .031$ DISTANCES AS THE TRACK BOLTS (I.E. 3-1/2", 10", 22", 34",  $.00 = \pm .015$ DESCRIPTION: COMMERCIAL RIBBED DOOR, +25/-25 PSF DESIGN LOAD 46", ETC.). ADDITIONAL LAG SCREWS LOCATED AT 16", 28", &  $.000 = \pm .005$ 40" FROM BOTTOM. TWO LAG SCREWS ALSO LOCATED ABOVE DRAWN BY: RJH DATE: 2/2/17 SCALE: NONE DWG. 🗀  $.0000 = \pm .001$ VERTICAL/HORIZONTAL TRACK JUNCTION. Degrees =  $\pm 1/2$ SHEET 3 OF 4 SIZE D MARK WESTERFIELD, P.E. FLORIDA P.E. No. 48495, NC P.E. #23832, TEXAS P.E. #91513 CHECKED BY: -DATE: -Unless Stated Otherwise DIMENSIONS ARE IN INCHES. DWG. NO.: 105196 VER: TDI 3

2 **REVISIONS** MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL) MODELS 524, 520/ 224/ C4ST, COST REV. NO. ZONE: DATE: ECN NO. APPVD: DESCRIPTION INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, C0SS, C4SV SEE REVISION HISTORY ON SHEET 1 STANDARD ASSEMBLY CONSTRUCTION: THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE OPTIONAL LITES WITH DSB OR BETTER GLAZING AVAILABLE. OPTIONAL FULL VISION SECTIONS WITH DSB OR BETTER GLAZING AVAILABLE. WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 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 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 MANUFACTURING PRODUCT CODE: MPC: C-PAN-1E448 DESIGN LOADS: +25 & -25 P.S.F. TEST LOADS: +37.5 & -37.5 P.S.F. 8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853 Unless Stated Otherwise CLOPAY WINDLOAD RATING **Z** Glopay TOLERANCES ore Building Products Company  $.0 = \pm .031$  $.00 = \pm .015$ DESCRIPTION: COMMERCIAL RIBBED DOOR, +25/-25 PSF DESIGN LOAD  $.000 = \pm .005$ DRAWN BY: RJH DATE: 2/2/17 SCALE: NONE  $.0000 = \pm .001$ DWG. D MARK WESTERFIELD, P.E. FLORIDA P.E. No. 48495 NC P.E. #23832, TEXAS P.E. #91513 Degrees =  $\pm 1/2^{\circ}$ CHECKED BY: -SHEET 4 OF 4 SIZE  $oldsymbol{ol{ol}}}}}}}}}}}}$ DATE: -Unless Stoted Otherwise DIMENSIONS ARE IN INCHES. DWG. NO.: 105196 VER: TDI 3