

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

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

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

## 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 +330 LB & -330 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 DIPPED G-40 GALVANIZING, ROLL BRACKETS PER SIDE) FORMED STEEL. 1-7/8" 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 SECTION A-A (SIDE VIEW)

FASTENER ATTACHMENT TO SUPPORTING STRUCTURE SCHEDULES MAXIMITM ON-CENTER BETWEEN FASTENERS\* REQUIRED?

5" 1" O.D.

8-1/4" 1" O.D. FASTENER TYPE 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 HOLLOW BLOCK WALL 1" O.D. 1" O.D. INCLUDED 4000 PSI MIN. CONCRETE 3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR THE 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

12GA STEEL (0.105" MIN.) 1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER INCLUDED 1" O.D. 1" O.D. 1" O.D. 1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER 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.

Unless Stated Otherwise TOLERANCES are

 $.0 = \pm .031$  $.00 = \pm .015$  $.000 = \pm .005$ 

DESIGN LOADS: +30 & -30 P.S.F.

TEST LOADS: +45 & -45 P.S.F.

CORPORATION

 $.0000 = \pm .001$ Degrees =  $\pm 1/2$ Unless Stated Otherwise DWG. NO.: 105064

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

PART NO .: N/A CLOPAY WINDLOAD RATING

VER: TDI

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

DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD DRAWN BY: RJH DATE: 2/1/17 SCALE: NTS SHEET 2 OF 4 SIZE B CHECKED BY: -DATE: -

91513

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

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

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

STILE FASTENED TO DOOR SKIN WITH TOG-L-LOC SYSTEM 2x6 SYP JAMB (IF PRESENT: 3" GALV. TAPERED STEEL TRACK AND ANGLE, TRACK TRACK CONFIGURATION SEE JAMB NOTES ON SHEET 2). THICKNESS: 0.101". ANGLE THICKNESS: 0.080". ABOVE THE DOOR OPENING HORIZONTAL TRACK MIN. ANGLE DIMENSIONS 3-1/4" x 2-7/8", DOES NOT AFFECT THE 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 FROM LAST MOUNTING & NUTS FOR EACH TRACK. ANGLE. SEE LAG BOLT MOUNTING AT TRACK SLOT TO TRACK JUNCTION CONFIGURATION BELOW. 7/16" I.D. ROUND PUSH NUT FASTENER. ADDITIONAL MOUNTING SLOTS SPACED AT 12" CENTERS. 0.101" THICK 3" GALV. STEEL TRACK FASTENED 14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END TO TAPERED ANGLE. TRACK ATTACHED TO STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS -12" ON CENTER TAPERED ANGLE WITH ONE 1/4"x5/8" BOLT & NUT AT EACH MOUNTING SLOT. AND (2) 1/4" SELF TAPPING SCREWS PER END HINGE. 3" DIA. 8-1/2" LONG STEM BALL BEARING STEEL ROLLER. SECTION C-C TONE. 1/4" TRACK BOLT AND NUT AT EACH MOUNTING SLOT LOCATION. PREPARATION OF JAMBS BY OTHERS. MANUFACTURING PRODUCT CODE: DOOR VERTICAL HEIGHT TRACK LENGTH 7'-0" 72 MPC: C-PAN-1E448 DESIGN LOADS: +30 & -30 P.S.F. TEST LOADS: +45 & -45 P.S.F. PART NO .: N/A Unless Stated Otherwise 8585 Duke Boulevard CLOPAY WINDLOAD RATING TOLERANCES are **L**ilopay Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853 ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME DISTANCES AS THE TRACK BOLTS (I.E. 3-1/2", 10", 22", 34", CORPORATION  $.0 = \pm .031$ 46", ETC.). ADDITIONAL LAG SCREWS LOCATED AT 16", 28", &  $.00 = \pm .015$ DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD 40" FROM BOTTOM. TWO LAG SCREWS ALSO LOCATED ABOVE  $.000 = \pm .005$ VERTICAL/HORIZONTAL TRACK JUNCTION. DRAWN BY: RJH  $.0000 = \pm .001$ DATE: 2/1/17 SCALE: NTS DWG. MARK WESTERFIELD, P.E. YA WAY FLORIDA P.E. No. 48495, NC P.E. #23832, TEXAS P.E. #91513 Degrees =  $\pm 1/2$ CHECKED BY: -DATE: -SHEET 3 OF 4 SIZE D Unless Stated Otherwise DIMENSIONS ARE IN INCHES. DWG. NO.: 105064 VER: TDI

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

REVISIONS									
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION				
01	-	75-	-	-	SEE REVISION HISTORY ON SHEET 1				

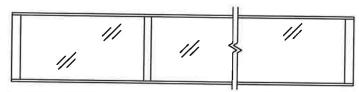
THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC)

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).

> NON-IMPACT-RESISTANT FULL VISION SECTION OPTION



OPTIONAL ALUMINUM FULL VISION WINDOW LITE SECTIONS AVAILABLE, SINGLE PANE OR INSULATED. ALL PANES ANNEALED GLASS OR 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 SAME REINFORCEMENT AS OTHER SECTIONS EXCEPT AS NOTED. OPTIONAL ACRYCLE IS PLASKOLITE OPTIX, AN APPROVED CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606. MAXIMIM DLO: 33" X 21-3/4".

STANDARD ASSEMBLY DETAILS

91513 "SSIONAL ELD MARK WESTERFIELD, P.E. FLORIDA P.E. No. 48495, NC P.E. #23832, TEXAS P.E. #91513

DESIGN LOADS: +30 & -30 P.S.F. TEST LOADS: +45 & -45 P.S.F.

Unless Stated Otherwise TOLERANCES are

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

 $.0 = \pm .031$  $.00 = \pm .015$  $.000 = \pm .005$  $.0000 = \pm .001$ Degrees =  $\pm 1/2$ 

DRAWN BY: RJH CHECKED BY: -

DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD

В

DATE: 2/1/17 SCALE: NTS SCALE: NTS DWG. SIZE B DATE: -Unless Stated Otherwise
DIMENSIONS ARE IN INCHES. DWG. NO.: 105064 VER: TDI