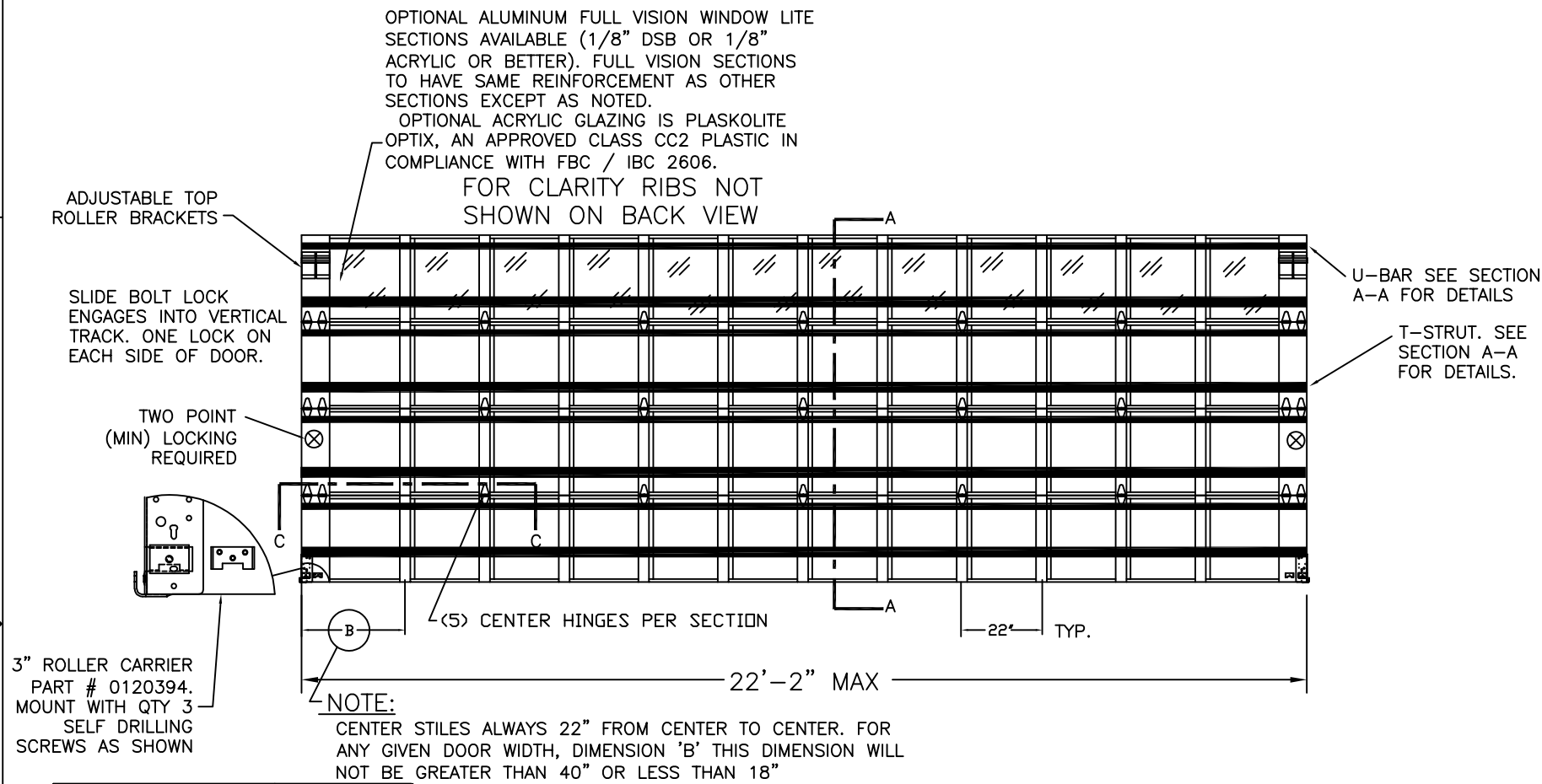


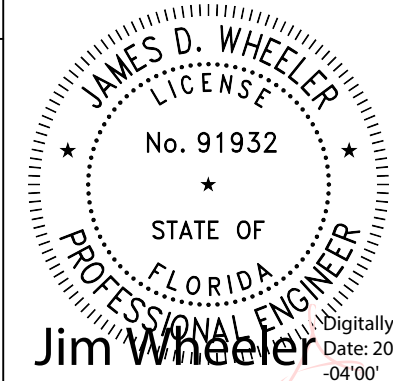
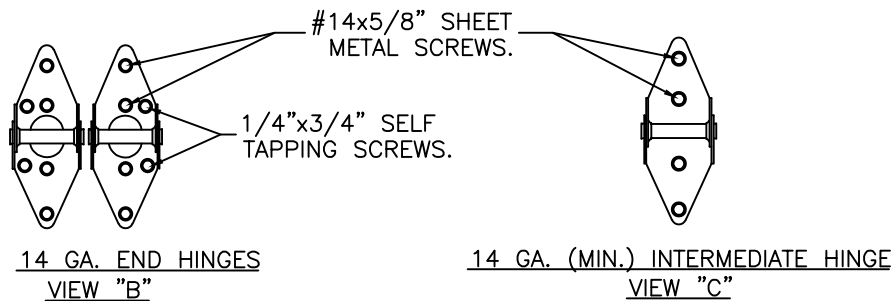
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
MODELS 524, 520/ 224/ C4ST, C0ST  
INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, C0SS, C4SV

SHEET:  
1 OF 4

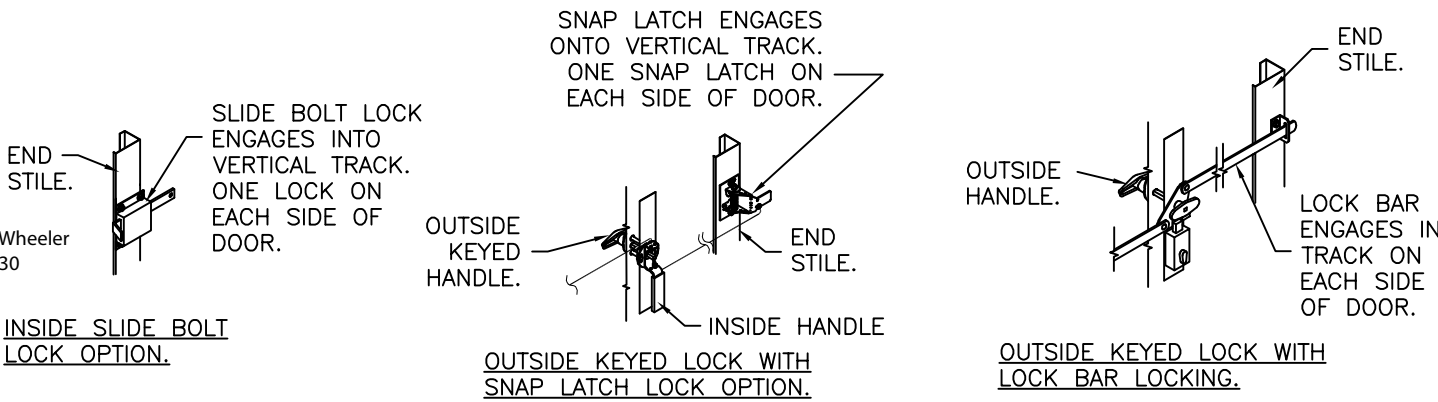
| REVISIONS |       |         |         |        |                                                   |
|-----------|-------|---------|---------|--------|---------------------------------------------------|
| REV. NO.  | ZONE: | DATE:   | ECN NO. | APPVD: | DESCRIPTION                                       |
| 00        | -     | 7/20/16 | -       | SH     | BASED ON 103319-R03.                              |
| 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'    | 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



DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.  
TEST LOADS: +45.0 P.S.F. & -45.0 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.

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

|                                                              |               |              |             |
|--------------------------------------------------------------|---------------|--------------|-------------|
| MANUFACTURING PRODUCT CODE<br>C-PAN-1E448                    |               |              |             |
| PART NO.: N/A                                                |               |              |             |
| WINDLOAD RATING<br>W5 DP30                                   |               |              |             |
| DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD |               |              |             |
| DRAWN BY: RH                                                 | DATE: 7/20/16 | SCALE: NTS   | DWG. SIZE B |
| CHECKED BY: SH                                               | DATE: -----   | SHEET 1 OF 4 |             |
| DWG. NO.: 105064                                             |               | VER: IBC     |             |

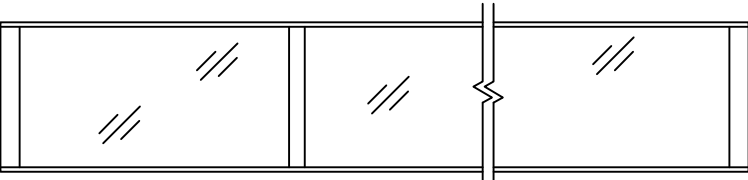
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
MODELS 524, 520/ 224/ C4ST, C0ST  
INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, C0SS, C4SV

|                  |       |           |         |        |                                    |  |
|------------------|-------|-----------|---------|--------|------------------------------------|--|
| SHEET:<br>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 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 (1/8" DSB, 1/8" ACRYLIC 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.

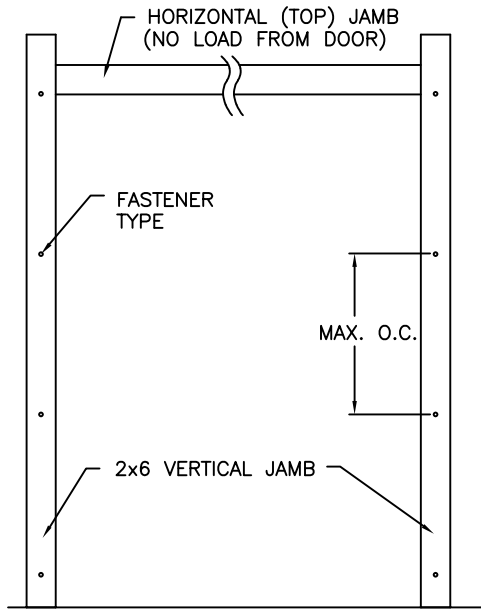
STANDARD ASSEMBLY DETAILS

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

|                                                                                                                                                                                            |                                                                                                                                                                                   |                                                              |               |              |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------|--------------|----------------|
|                                                                                                                                                                                            |                                                                                                                                                                                   | MANUFACTURING PRODUCT CODE<br>C-PAN-1E448                    |               |              |                |
| DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.<br>TEST LOADS: +45.0 P.S.F. & -45.0 P.S.F.                                                                                                       |                                                                                                                                                                                   | PART NO.: N/A                                                |               |              |                |
| Unless Stated Otherwise<br>TOLERANCES are<br><br>.0 = ±.031<br>.00 = ±.015<br>.000 = ±.005<br>.0000 = ±.001<br>Degrees = ±1/2'<br><br>Unless Stated Otherwise<br>DIMENSIONS ARE IN INCHES. |  8585 Duke Boulevard<br>Mason, OH 45040 USA<br>Tel. No. 513-770-4800<br>Fax No. 513-770-4853 | WINDLOAD RATING<br>W5 DP30                                   |               |              |                |
|                                                                                                                                                                                            |                                                                                                                                                                                   | DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD |               |              |                |
|                                                                                                                                                                                            |                                                                                                                                                                                   | DRAWN BY: RH                                                 | DATE: 7/20/16 | SCALE: NTS   | DWG. B<br>SIZE |
|                                                                                                                                                                                            |                                                                                                                                                                                   | CHECKED BY: SH                                               | DATE: -----   | SHEET 2 OF 4 |                |
|                                                                                                                                                                                            |                                                                                                                                                                                   | DWG. NO.: 105064                                             |               | VER: IBC     |                |

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
MODELS 524, 520/ 224/ C4ST, C0ST  
INSULATED MODELS 524S, 520S, 524V/ 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 +330 LB & -330 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

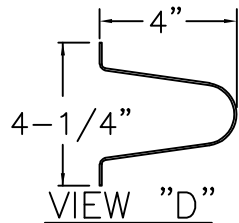
| BUILDING TYPE            | FASTENER TYPE                                                        | MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS* | STEEL WASHERS REQUIRED? |
|--------------------------|----------------------------------------------------------------------|-----------------------------------------------|-------------------------|
| HOLLOW BLOCK WALL        | 1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR                    | 5"                                            | 1" O.D.                 |
| GROUT FILLED BLOCK WALL  | 1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR                    | 8-1/4"                                        | 1" O.D.                 |
| 2000 PSI MIN. CONCRETE   | 1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR                        | 7-1/4"                                        | 1" O.D.                 |
| 2000 PSI MIN. CONCRETE   | 1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR                          | 6-3/4"                                        | 1" O.D.                 |
| 2000 PSI MIN. CONCRETE   | 3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR              | 15"                                           | 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 | 16-1/2"                                       | 1" O.D.                 |
| 14GA STEEL (0.060" MIN.) | 1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER                | 6-3/4"                                        | 1" O.D.                 |
| 12GA STEEL (0.105" MIN.) | 1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER                | 12"                                           | 1" O.D.                 |
| 1/8" STEEL               | 1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER                | 14-1/2"                                       | 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.

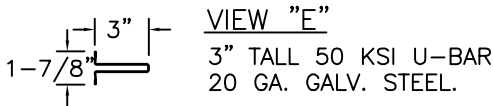
DESIGN ENGINEER:  
JAMES D. WHEELER, P.E.  
FLORIDA LICENSE No. 91932

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

OPTIONAL INSULATION  
(SEE MODEL EXPLANATION)



4" TALL TAPER STRUT.  
0.062" MIN. GALV. STEEL,  
80 KSI. MIN.



### SECTION A-A (SIDE VIEW)

DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.  
TEST LOADS: +45.0 P.S.F. & -45.0 P.S.F.

Unless Stated Otherwise  
TOLERANCES are  
.0 = ±.031  
.00 = ±.015  
.000 = ±.005  
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Fax No. 513-770-4853

|                                                              |               |              |        |
|--------------------------------------------------------------|---------------|--------------|--------|
| DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD |               |              |        |
| DRAWN BY: RH                                                 | DATE: 7/20/16 | SCALE: NTS   | DWG. B |
| CHECKED BY: SH                                               | DATE: -----   | SHEET 3 OF 4 | SIZE   |
| DWG. NO.: 105064                                             | VER: IBC      |              |        |

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 X 5/8" LG SHEET METAL SCREWS. ( 2  
BRACKETS 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].  
(T-STRUTS ON FULL VISION  
SECTIONS TO BE ATTACHED WITH  
1/4"x1" SELF TAPPING SCREWS.)

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

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

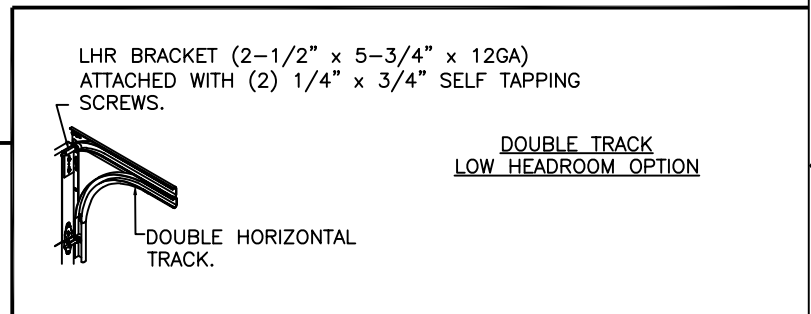
MANUFACTURING PRODUCT CODE  
C-PAN-1E448

PART NO.: N/A

WINDLOAD RATING  
W5 DP30

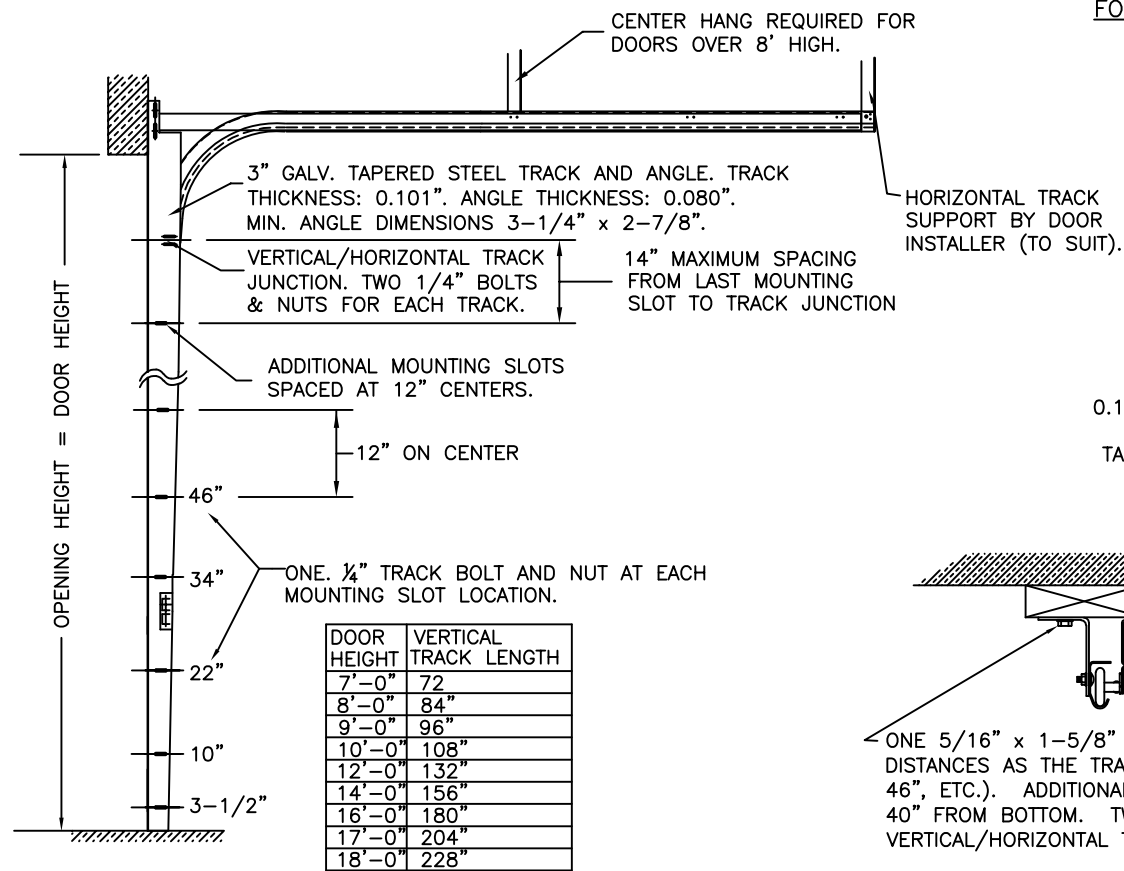
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
MODELS 524, 520/ 224/ C4ST, C0ST  
INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, C0SS, C4SV

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

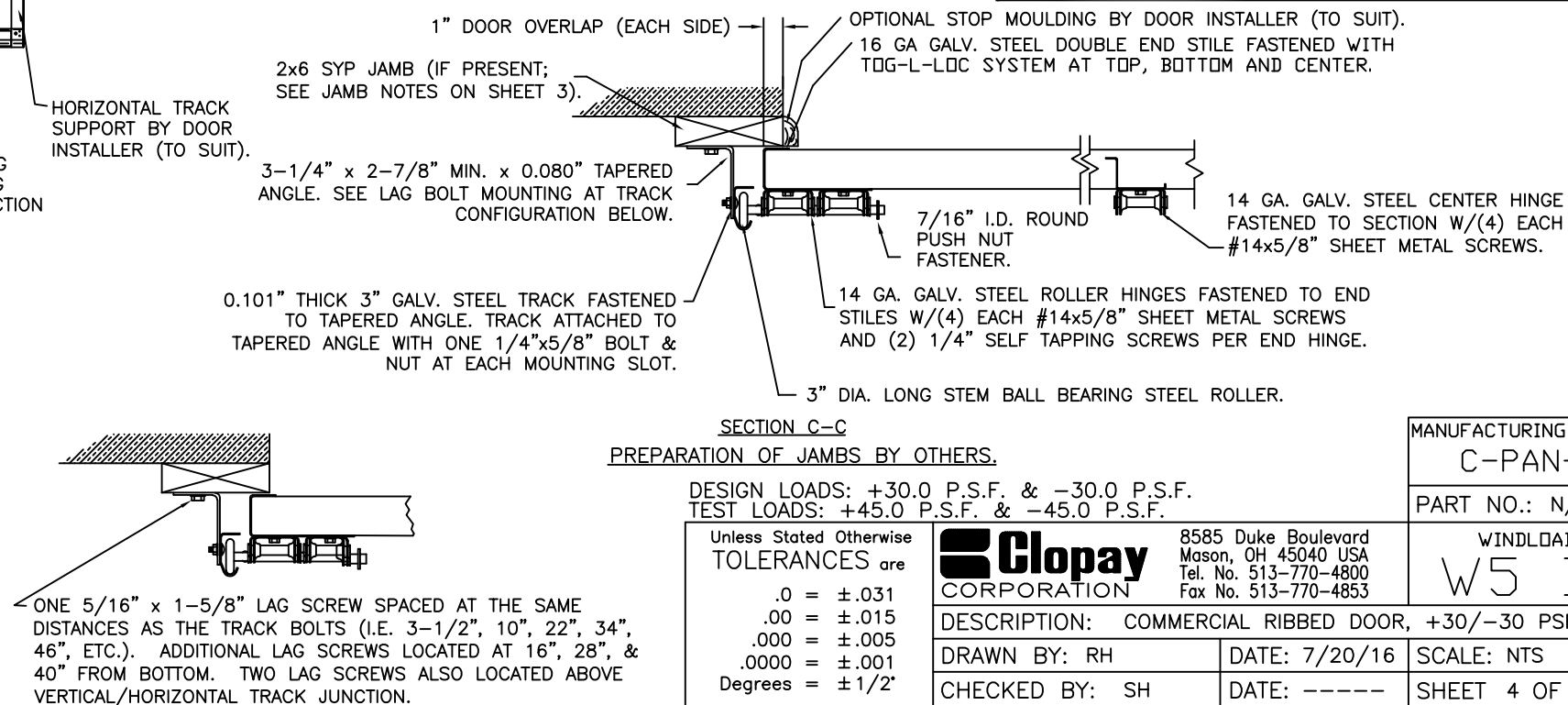


3" TRACK CONFIGURATION.

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 3" TRACK.



DESIGN ENGINEER:  
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FLORIDA LICENSE No. 91932

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|                                                              |               |              |        |
|--------------------------------------------------------------|---------------|--------------|--------|
| MANUFACTURING PRODUCT CODE<br>C-PAN-1E448                    |               |              |        |
| PART NO.: N/A                                                |               |              |        |
| WINDLOAD RATING<br>W5 DP30                                   |               |              |        |
| DESCRIPTION: COMMERCIAL RIBBED DOOR, +30/-30 PSF DESIGN LOAD |               |              |        |
| DRAWN BY: RH                                                 | DATE: 7/20/16 | SCALE: NTS   | DWG. B |
| CHECKED BY: SH                                               | DATE: -----   | SHEET 4 OF 4 | SIZE   |
| DWG. NO.: 105064                                             |               | VER: IBC     |        |