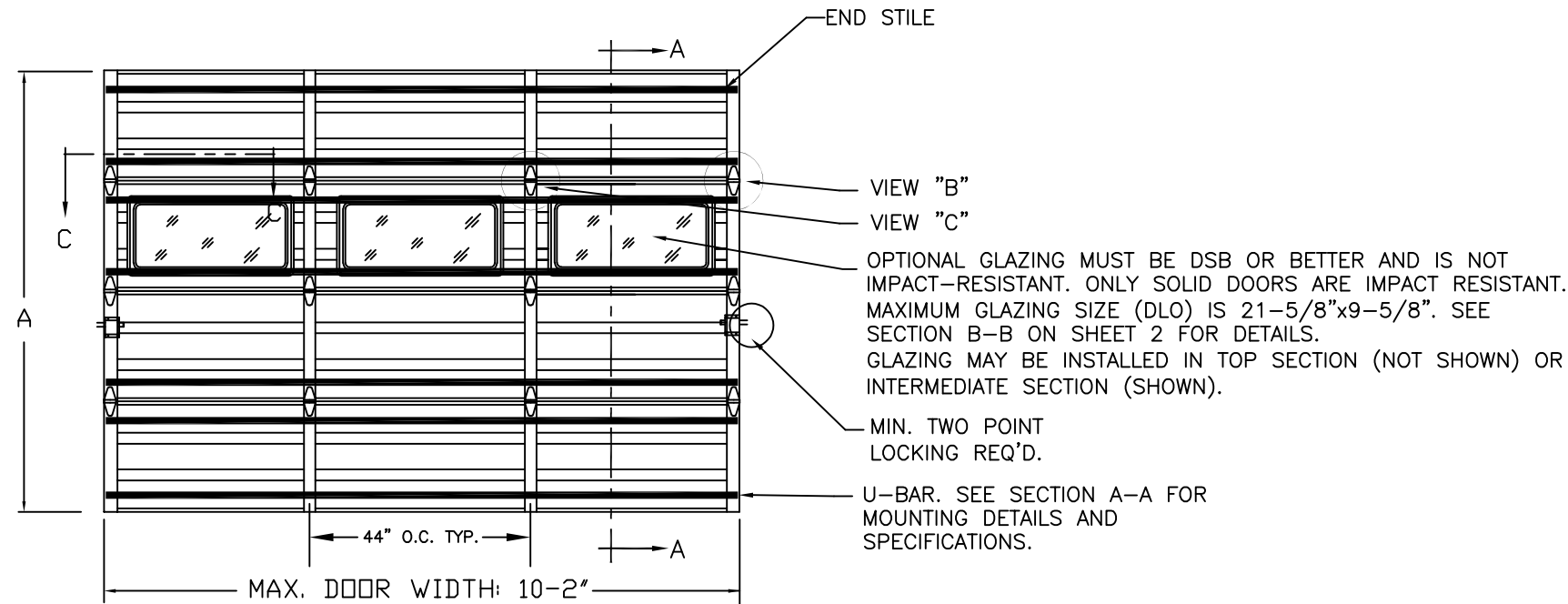


MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
MODELS 524, 520/ 224/ C4ST, COST  
INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, COSS, C4SV

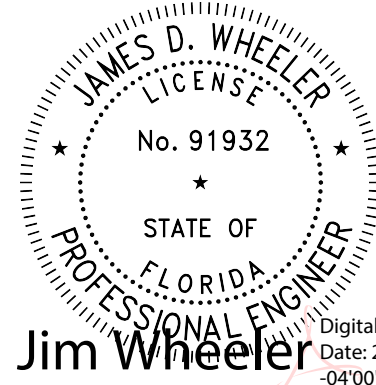
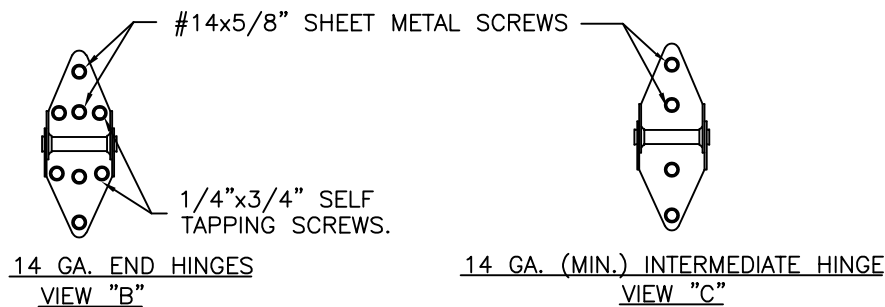
SHEET:  
1 OF 4

| REVISIONS |       |         |         |        |                                            |
|-----------|-------|---------|---------|--------|--------------------------------------------|
| REV. NO.  | ZONE: | DATE:   | ECN NO. | APPVD: | DESCRIPTION                                |
| 09        | -     | 7/11/14 | -       | SH     | REVISED LOADS, ROLLERS/STILES ON SHT 4.    |
| 10        | -     | 8/10/20 | -       | SH     | UPDATED TITLE BLOCK AND REMOVED WIND CHART |

| DOOR WIDTH        | NUMBER OF CENTER STILES |
|-------------------|-------------------------|
| UP TO 9'-2"       | 1                       |
| 9'-3" THRU 12'-2" | 2                       |

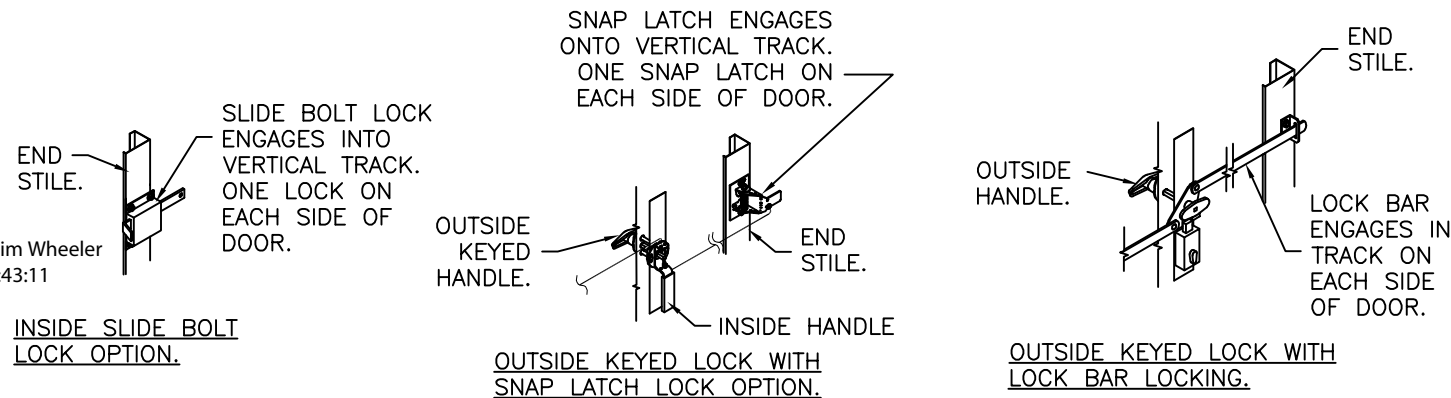


| DOOR HEIGHT 'A'    | NUMBER OF SECTIONS |
|--------------------|--------------------|
| UP TO 8'-0"        | 4                  |
| 8'-3" THRU 10'-0"  | 5                  |
| 10'-3" THRU 12'-0" | 6                  |
| 12'-3" THRU 14'-0" | 7                  |
| 14'-3" THRU 16'-0" | 8                  |
| 16'-3" THRU 18'-0" | 9                  |



Digitally signed by Jim Wheeler  
Date: 2026.08.20 11:43:11  
-04'00'

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



STANDARD LOADS  
DESIGN LOADS: +37.0 P.S.F. & -44.0 P.S.F.  
TEST LOADS: +55.5 P.S.F. & -66.0 P.S.F.  
IMPACT-RATED LOADS  
DESIGN LOADS: +37.0 P.S.F. & -42.0 P.S.F.  
TEST LOADS: +55.5 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.

**Clopay**  
CORPORATION

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

MANUFACTURING PRODUCT CODE  
C-PAN-1E448

PART NO.: N/A

WINDLOAD RATING  
W6 DP37

DESCRIPTION: COMMERCIAL RIBBED DOORS UP TO 10'2"W (SEE TABLE)

DRAWN BY: SH DATE: 1/10/14 SCALE: NTS DWG. SIZE B

CHECKED BY: SH DATE: 1/10/14 SHEET 1 OF 4

DWG. NO.: 102445 - A/B VER: IBC

FLORIDA PRODUCT APPROVAL 48404.11

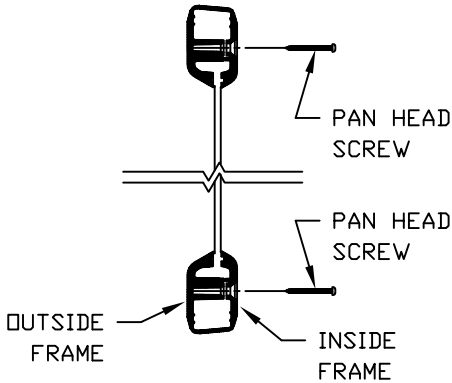
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)  
MODELS 524, 520/ 224/ C4ST, COST  
INSULATED MODELS 524S, 520S, 524V/ 224S/ C4SS, COSS, C4SV

SHEET:  
2 OF 4

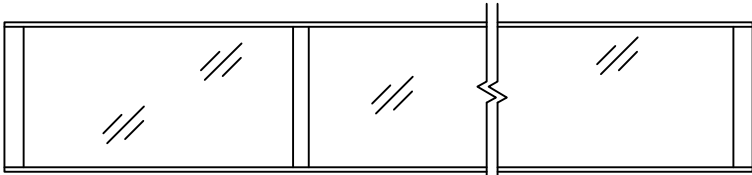
| REVISIONS |       |       |         |        |                                    |
|-----------|-------|-------|---------|--------|------------------------------------|
| REV. NO.  | ZONE: | DATE: | ECN NO. | APPVD: | DESCRIPTION                        |
| 10        | -     | -     | -       | -      | SEE REVISION HISTORY ON SHEET ONE. |

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).

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



NON-IMPACT-RESISTANT  
FULL VISION SECTION OPTION



OPTIONAL ALUMINUM FULL VISION WINDOW LITE SECTIONS AVAILABLE (1/8" DSB, 1/8" ACRYLIC, 1/4" WIRE, 1/2" INSUL.). 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  
**DRAWING 102445-B**

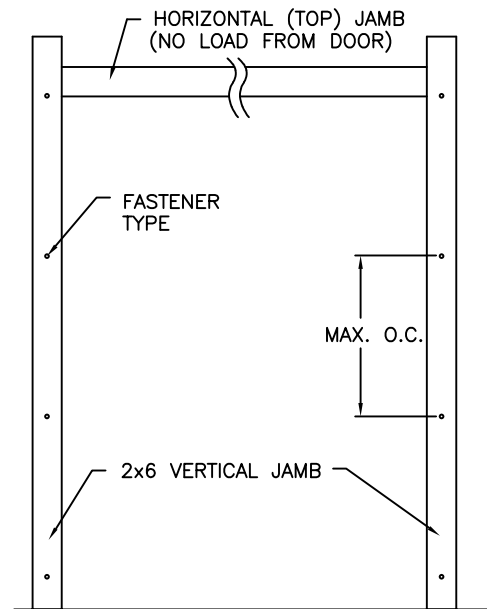
DESIGN ENGINEER:  
JAMES D. WHEELER, P.E.  
FLORIDA LICENSE No. 91932

|                                                                                                                                                                                                                      |  |                                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|
| STANDARD LOADS<br>DESIGN LOADS: +37.0 P.S.F. & -44.0 P.S.F.<br>TEST LOADS: +55.5 P.S.F. & -66.0 P.S.F.<br>IMPACT-RATED LOADS<br>DESIGN LOADS: +37.0 P.S.F. & -42.0 P.S.F.<br>TEST LOADS: +55.5 P.S.F. & -63.0 P.S.F. |  | MANUFACTURING PRODUCT CODE<br>C-PAN-1E448 |  |
| Unless Stated Otherwise<br>TOLERANCES are<br>.0 = ±.031<br>.00 = ±.015<br>.000 = ±.005<br>.0000 = ±.001<br>Degrees = ±1/2'                                                                                           |  | PART NO.: N/A                             |  |
| Unless Stated Otherwise<br>DIMENSIONS ARE IN INCHES.                                                                                                                                                                 |  | WINDLOAD RATING<br>W6 DP37                |  |
| DESCRIPTION: COMMERCIAL RIBBED DOORS UP TO 10'2"W (SEE TABLE)                                                                                                                                                        |  | DRAWN BY: SH                              |  |
| CHECKED BY: SH                                                                                                                                                                                                       |  | DATE: 1/10/14                             |  |
| DWG. NO.: 102445 - A/B                                                                                                                                                                                               |  | SCALE: NTS                                |  |
|                                                                                                                                                                                                                      |  | SHEET 2 OF 4                              |  |
|                                                                                                                                                                                                                      |  | VER: IBC                                  |  |

FLORIDA PRODUCT APPROVAL 48404.11

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

| SHEET: |  | REVISIONS |       |       |         |        |                                    |
|--------|--|-----------|-------|-------|---------|--------|------------------------------------|
| 3 OF 4 |  | REV. NO.  | ZONE: | DATE: | ECN NO. | APPVD: | DESCRIPTION                        |
|        |  | 10        | -     | -     | -       | -      | 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 +185 LB & -220 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.

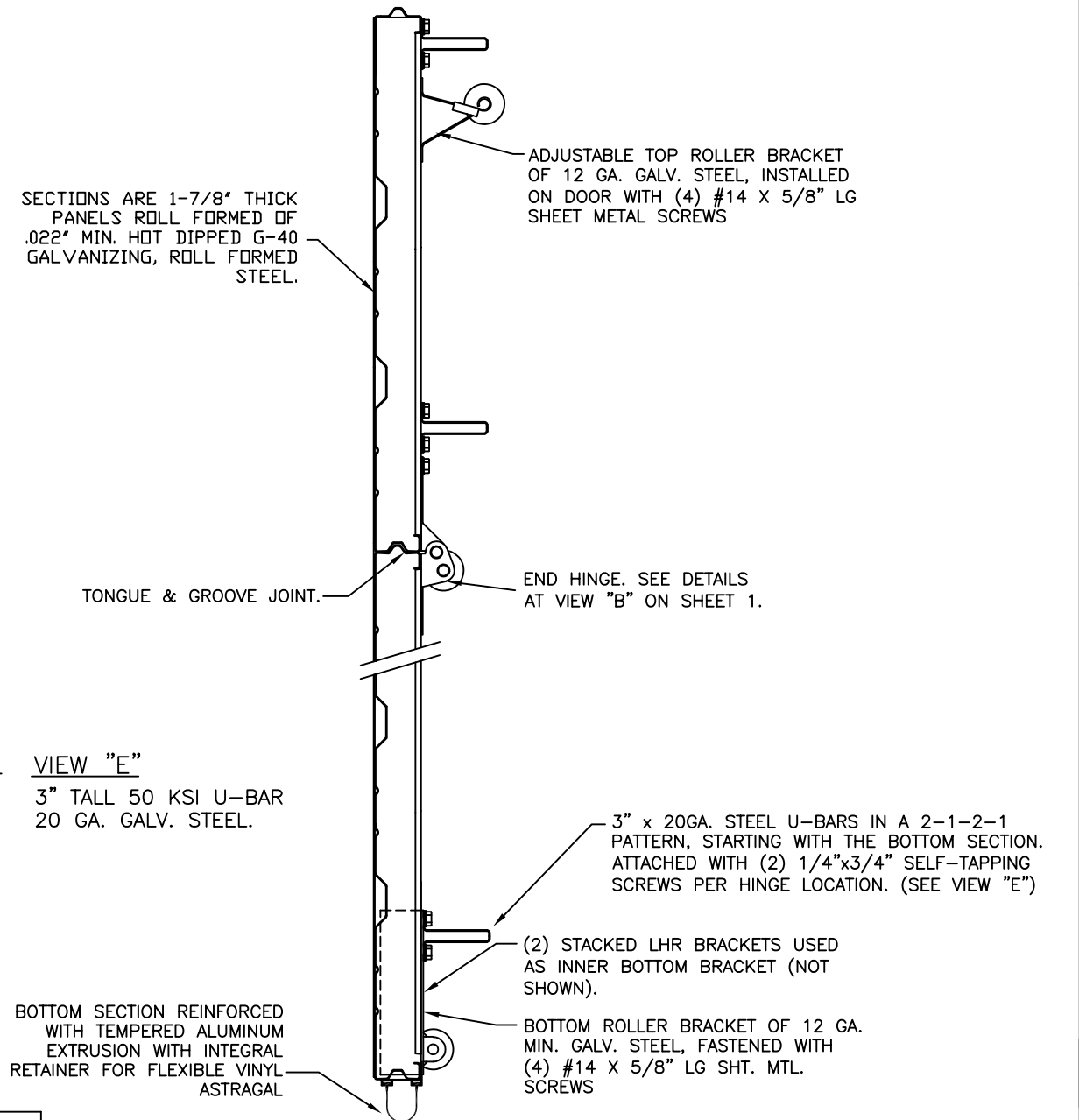
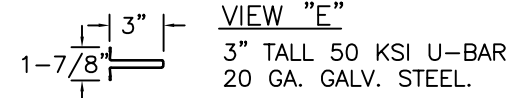
NOTE: 2x6 WOOD JAMBS ARE NOT REQUIRED WITH CONTINUOUS ANGLE MOUNT TRACK. HOWEVER, IF DESIRED ON STEEL JAMBS OR CONCRETE OR BLOCK WALLS, APPROVED FASTENERS AS DETAILED BELOW SHOULD BE INCREASED IN LENGTH BY 1-1/2" AND INSTALLED DIRECTLY THROUGH THE ANGLE AND 2x6 WOOD JAMBS INTO THE STEEL JAMBS OR CONCRETE 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                    | 9"                                            | 1" O.D.                 |
| GROUT FILLED BLOCK WALL  | 1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR                    | 14-3/4"                                       | 1" O.D.                 |
| 2000 PSI MIN. CONCRETE   | 1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR                        | 12-3/4"                                       | 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              | 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 (0.060" MIN.) | 1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER                | 12-1/4"                                       | 1" O.D.                 |
| 12GA STEEL (0.105" MIN.) | 1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER                | 21-1/2"                                       | 1" O.D.                 |
| 1/8" STEEL               | 1/4"-14 x 1" ITW BUILDDEX TEKS SELF-DRILLING FASTENER                | 24"                                           | 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



SECTION A-A (SIDE VIEW)

#### STANDARD LOADS

DESIGN LOADS: +37.0 P.S.F. & -44.0 P.S.F.

TEST LOADS: +55.5 P.S.F. & -66.0 P.S.F.

#### IMPACT-RATED LOADS

DESIGN LOADS: +37.0 P.S.F. & -42.0 P.S.F.

TEST LOADS: +55.5 P.S.F. & -63.0 P.S.F.

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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  
C-PAN-1E448

PART NO.: N/A

WINDLOAD RATING  
W6 DP37

DESCRIPTION: COMMERCIAL RIBBED DOORS UP TO 10'2"W (SEE TABLE)

DRAWN BY: SH DATE: 1/10/14 SCALE: NTS DWG. B

CHECKED BY: SH DATE: 1/10/14 SHEET 3 OF 4 SIZE B

DWG. NO.: 102445 - A/B VER: IBC

FLORIDA PRODUCT APPROVAL 48404.11

