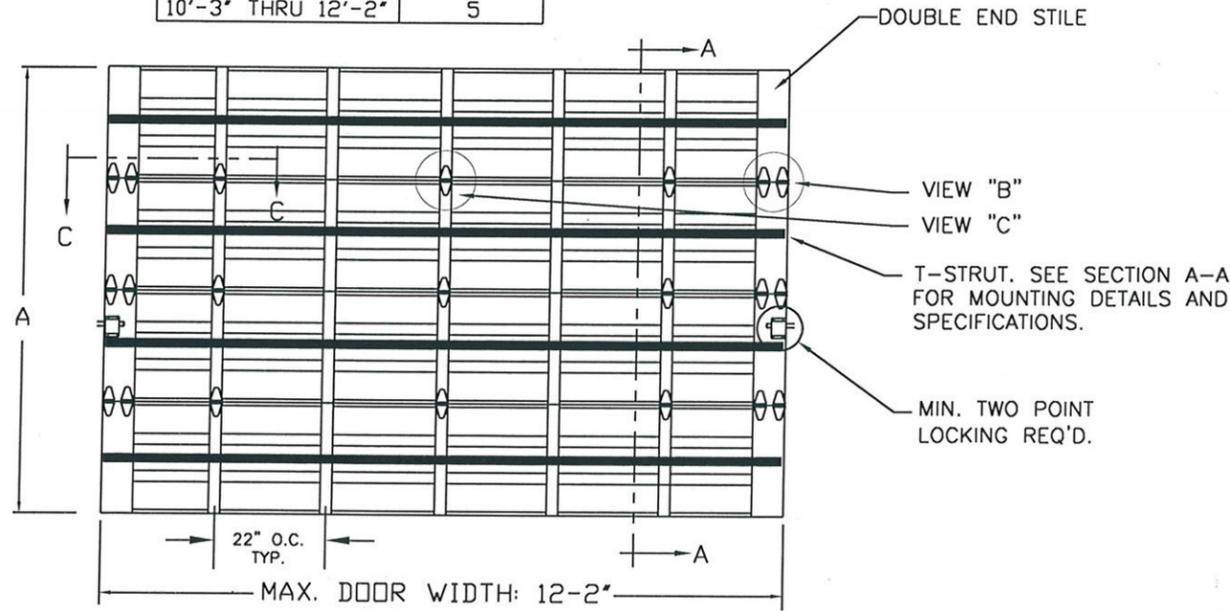


MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
524W8, 520W8 / 224W8 / C4STW8, COSTW8

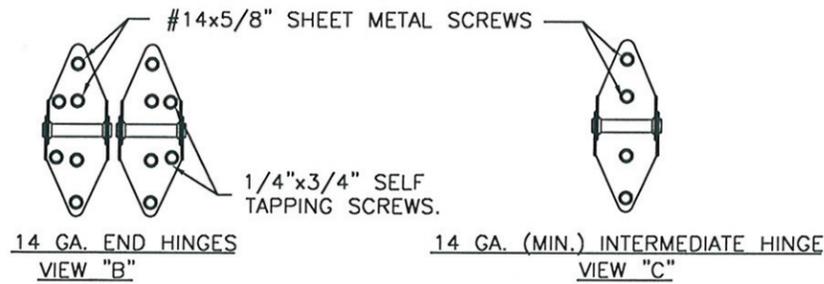
SHEET:		REVISIONS				
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION	
1	OF 3					
00	-	1/30/14	-	SH	INITIAL RELEASE.	

DOOR WIDTH	NUMBER OF CENTER STILES
UP TO 6' 2"	2
6'-3" THRU 8'-2"	3
8'-3" THRU 10'-2"	4
10'-3" THRU 12'-2"	5



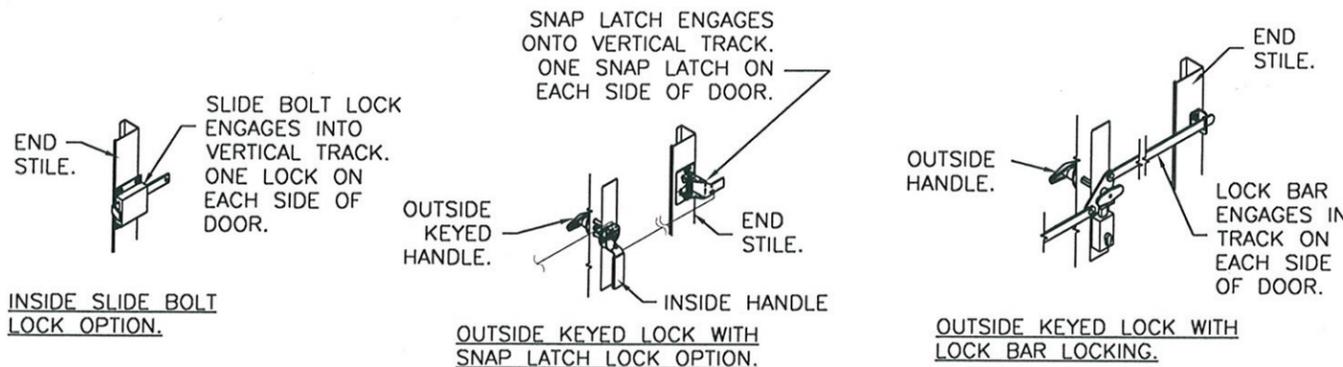
THIS DOOR MEETS THE REQUIREMENTS OF THE LARGE MISSILE IMPACT AND CYCLIC TESTING.

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



THIS DOOR MEETS OR EXCEEDS THE DESIGN LOADS FOR THE ULTIMATE WIND SPEEDS LISTED BELOW ACCORDING TO THE FLORIDA BUILDING CODE OR THE INTERNATIONAL BUILDING CODE (BASED ON ASCE7-05) FOR THE FOLLOWING CONDITIONS: 1) ENCLOSED BUILDING, 2) DOOR HAS 2' OF WIDTH IN BUILDING'S END ZONE, 3) ROOF SLOPE <10°, AND 4) TESTING IN ACCORDANCE WITH ANSI/DASMA 108. SITE-SPECIFIC CALCULATIONS BY A QUALIFIED DESIGN PROFESSIONAL MAY DIFFER.

WIND SPEED (MPH)	165	170	190
EXPOSURE CATEGORY	B, C	B, C	B
MEAN ROOF HEIGHT	25'	15'	30'



DESIGN LOADS: +52.0 P.S.F. & -58.0 P.S.F.
TEST LOADS: +78.0 P.S.F. & -87.0 P.S.F.

Unless Stated Otherwise
TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2°

Clopay
Building Products Company
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
W8 DP52T

DESCRIPTION: COMMERCIAL RIBBED DOORS UP TO 12'2"W (SEE TABLE)

DRAWN BY: SH DATE: 1/10/13 SCALE: NTS DWG. SIZE B

CHECKED BY: SH DATE: 1/10/13 SHEET 1 OF 3

DWG. NO.: 104813 VER: TDI

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

Mark Westerfield
3/21/14

MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
524W8, 520W8 / 224W8 / C4STW8, COSTW8

SHEET:
2 OF 3

REVISIONS

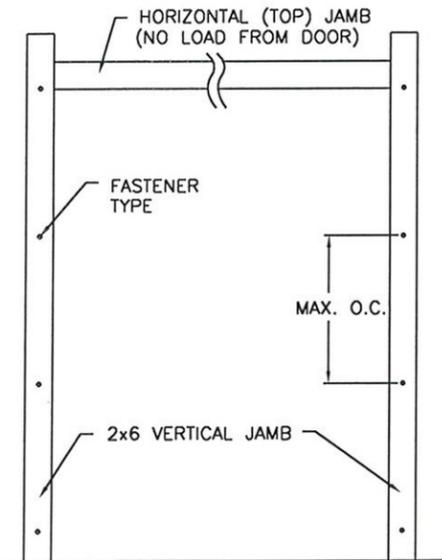
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	-	-	-	SH	SEE REVISION HISTORY ON SHEET ONE.

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 +312 LB & -348 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.

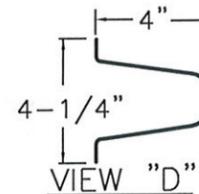


SECTIONS ARE 1-7/8" THICK
PANELS ROLL FORMED OF
.022" MIN. HOT DIPPED G-40
GALVANIZING, ROLL FORMED
STEEL.

ADJUSTABLE TOP ROLLER BRACKET
OF 12 GA. GALV. STEEL, INSTALLED
ON DOOR WITH (4) #14 X 5/8" LG
SHEET METAL SCREWS

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.

TONGUE & GROOVE JOINT. END HINGE. SEE DETAILS
AT VIEW "B" ON SHEET 1.



4" TALL TAPER STRUT.
0.057" MIN. GALV. STEEL,
50 KSI. MIN.

BOTTOM SECTION REINFORCED
WITH TEMPERED ALUMINUM
EXTRUSION WITH INTEGRAL
RETAINER FOR FLEXIBLE VINYL
ASTRAGAL

(2) STACKED LHR BRACKETS USED
AS INNER BOTTOM BRACKET (NOT
SHOWN).

BOTTOM ROLLER BRACKET OF 12 GA.
MIN. GALV. STEEL, FASTENED WITH
(4) #14 X 5/8" LG SHT. MTL.
SCREWS

SECTION A-A (SIDE VIEW)

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	5-1/4"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	8-3/4"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	7-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	6-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	16"	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	17-1/2"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	7-1/4"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	12-3/4"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	15-1/4"	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: +52.0 P.S.F. & -58.0 P.S.F.
TEST LOADS: +78.0 P.S.F. & -87.0 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.

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MANUFACTURING PRODUCT CODE
C-PAN-1E448

PART NO.: N/A

WINDLOAD RATING
W8 DP52T

DESCRIPTION: COMMERCIAL RIBBED DOORS UP TO 12'2"W (SEE TABLE)

DRAWN BY: SH DATE: 1/10/13 SCALE: NTS DWG. B

CHECKED BY: SH DATE: 1/10/13 SHEET 2 OF 3 SIZE B

DWG. NO.: 104813 VER: TDI

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

Mark Westerfield
3/21/19

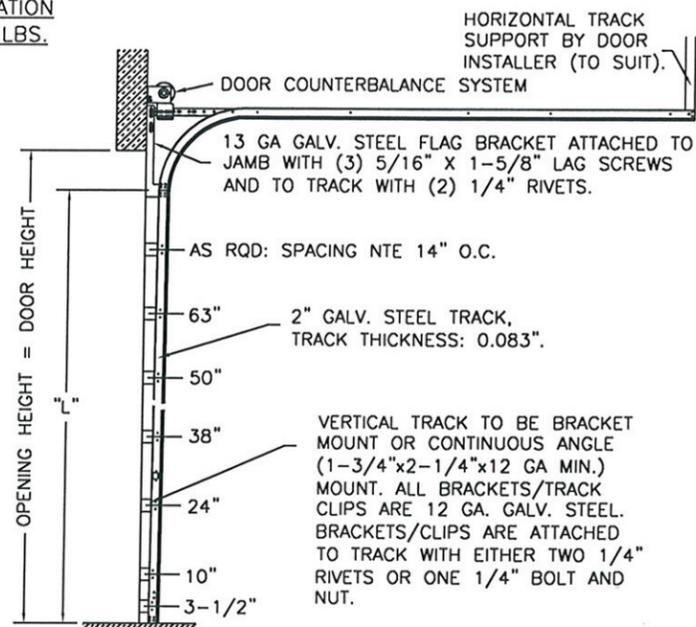
MODELS AVAILABLE (CLOPAY/ HOLMES/ IDEAL)
524W8, 520W8 / 224W8 / C4STW8, COSTW8

SHEET:
3 OF 3

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

2" TRACK CONFIGURATION
DOORS UP TO 800 LBS.

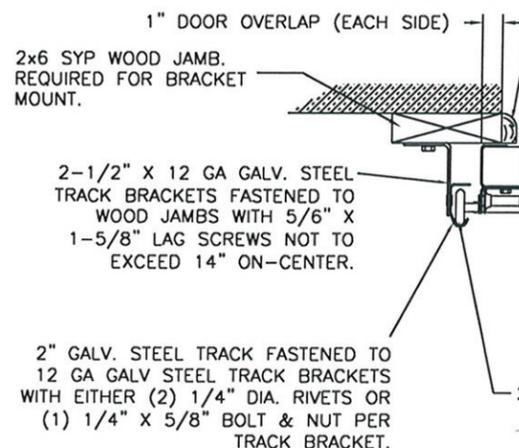
NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE-ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



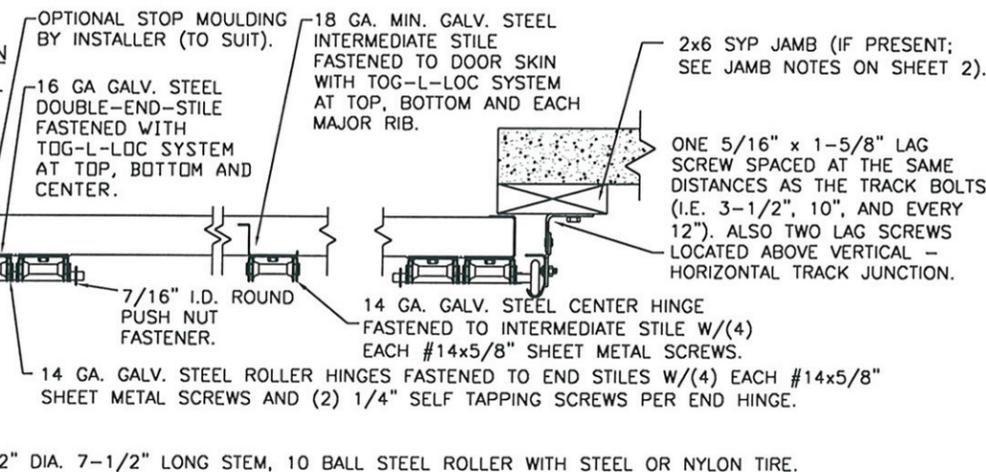
DOOR HEIGHT "L"	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"
16'-6"	190"
17'-0"	196"
17'-6"	202"
18'-0"	208"

JAMB CONFIGURATION
DOORS UP TO 800 LBS.

BRACKET MOUNT JAMB CONFIGURATION



ANGLE MOUNT JAMB CONFIGURATION



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

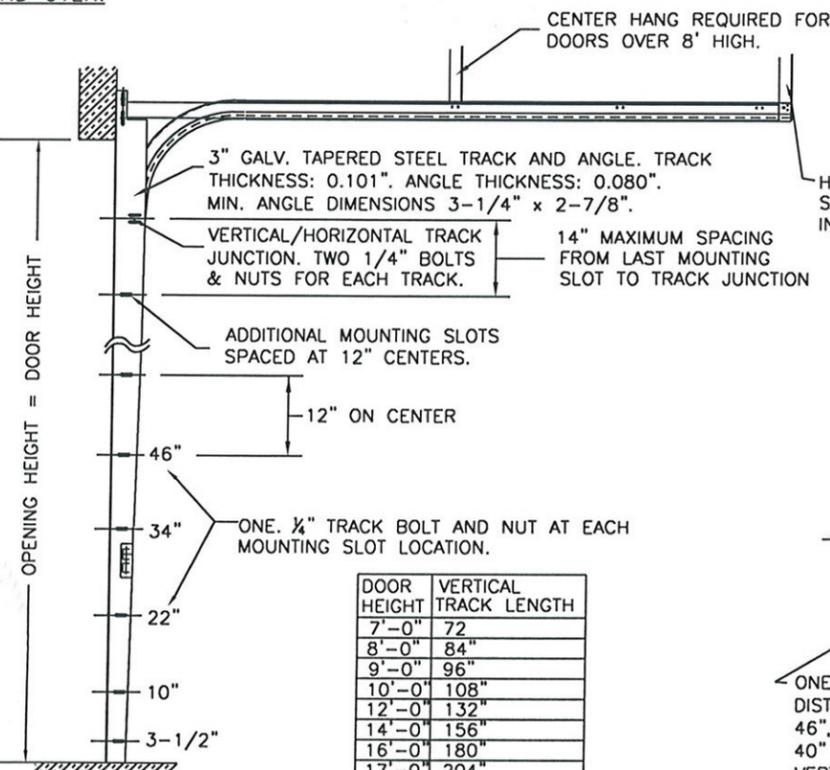
LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS NOTED ON SHEET 2.



DOUBLE TRACK LOW HEADROOM OPTION
(AVAIL. FOR BOTH 2" AND 3" TRACK)

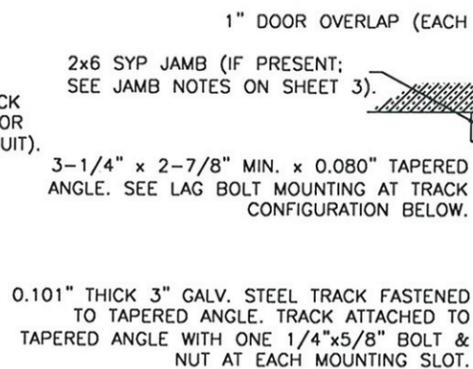
3" TRACK CONFIGURATION
DOORS 800 LBS AND OVER.

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
DOORS 800 LBS AND OVER.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

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TEST LOADS: +78.0 P.S.F. & -87.0 P.S.F.

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PART NO.: N/A

WINDLOAD RATING
W8 DP52T

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DRAWN BY: SH	DATE: 1/10/13	SCALE: NTS	DWG. SIZE: B
CHECKED BY: SH	DATE: 1/10/13	SHEET 3 OF 3	
DWG. NO.: 104813	VER: TDI		

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

Mark Westerfield
3/21/14