

GENERAL NOTES:

- 1. STEEL FOR CORRUGATED SHEET ASTM-A653 WITH MINIMUM YIELD STRENGTH OF 80 KSI AND TENSILE STRENGTH OF 82 KSI. (GRADE 80)
- 2. GUIDES ROLL FORMED (12) GAUGE GALVANIZED STEEL.
- 3. GUIDE INSERT FORMED (12) GAUGE GALVANIZED STEEL.
- 4. (10) GAUGE GALVANIZED STEEL WINDLOCK CLIP FASTENED WITH TWO 3/16" x .440" POP RIVETS ON SIX CORRUGATIONS PER SIDE OF EACH SHEET.
- 5. THIS DOOR HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND THE INTERNATIONAL BUILDING CODE. THE DESIGN WIND PRESSURES REQUIRED FOR ANY DOOR SHALL BE DETERMINED USING THE APPROPRIATE SECTION OF THE CODE HAVING JURISDICTION WHERE THE BUILDING IS LOCATED.
- 6. THIS DOOR HAS BEEN SUCCESSFULLY TESTED TO:
 - -THE UNIFORM STATIC AIR PRESSURE TEST PER ASTM E-330 AND ANSI/DASMA 108 TO A DESIGN LOAD OF \pm 0.0PSF
 - -REFERENCE ELEMENT-ORLANDO, TEST REPORT #ESP010520P, DATED: 8/17/12.
- 7. ALL FASTENERS SHALL BE GALVANIZED OR ZINC COATED WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- BOTTOM BAR ASSEMBLY FASTENED 5 3/4" FROM EACH END AND 12" O.C. FROM CENTER USING 1/4" x 1" CARRIAGE BOLTS.

203M Sheet Door

Summary of Catenary Forces for alternative doors

Compared to Element Materials Techology Report No.: ESP010520P, dated 8/17/12

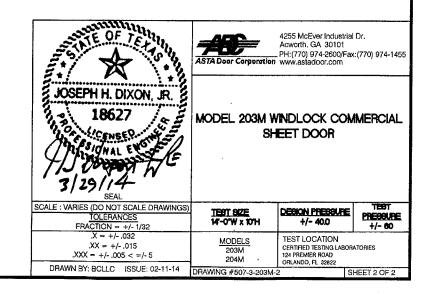
Rolling Sheet Door

Test Door: 14' wide x 10' high, Design Windload +/- 40.0 psf

Static air pressure test conducted in accordance with ASTM E330-02 and DASMA 108-05

	Width	Design Windload		Sheet Door						
	ft	Pos psf	Neg psf	Model	gage in					
14 x 10 Test Door	14	40	40	203M 204M	0.017 0.017					
Calibration calculations for test door										
Comparative forces by calculation to determine maximum design pressure										
Max Door Size										
8 x 21	8	69,4	69.4	203M	0.017					
9 x 21	9	69.4	69.4	203M	0.017					
10 x 21	10	69.4	69.4	203M	0.017					
11 x 21	11	59.1	59,1	203M	0.017					
12 x 21	12	51.2	51.2	203M	0.017					
13 x 21	13	45,0	45.0	203M	0.017					
14 x 21	14	40.0	40.0	203M	0.017					
15 x 21	15	35.9	35.9	203M	0.017					
16 x 21	16	32.4	32.4	203M	0.017					
17 x 21	17	29.5	29.5	203M	0.017					
18 x 21	18	27.0	27.0	203M	0.017					

Design wind forces are calculated to produce catenary forces at the guides equal to or less than those calculated for the test door. This indicates that the curtain, windlocks, windlock connections, guide angles, and jamb anchorages will all be stressed to approximately the same as those in the test door, provided that the door is constructed the same for all opening widths.



Summary of Catenary Forces for alternative doors for TDI (TEXAS)

Compared to Element Materials Techology Report No.: ESP010520P, dated 8/17/12

Rolling Sheet Door

Test Door: 14' wide x 10' high, Design Windload +/- 40.0 psf

Static air pressure test conducted in accordance with ASTM E330-02 and DASMA 108-05

	Width	Design		Sheet Door		Catenary		
			dload				rce	Remarks
	ft	Pos psf	Neg psf	Model	gage in	Pos wind plf	Neg wind plf	
14 x 10	1,	Poi	por		""	Pil	Ρii	Test Door
Test Door	14	40	40	203M	0.017			Design test pressure: +40 / -40 psf
Calibration calcul	ations for te	 est door 				2035	2035	Max test pressure: +60.0 / -60.0 psf slip = 0.25 in
Comparative forces by calculation							All doors constructed	
to determine maximum design pressu		re					same as test door	
								slip = 0.25 in
Max Door Size								
8 x 21	8	69.4	69.4	203M	0.017	≤ 2034	≤ 2034	Forces <= test door, OK
9 x 21	9	69.4	69.4	203M	0.017	≤ 2034	≤ 2034	Forces <= test door, OK
10 x 21	10	69.4	69.4	203M	0.017	2034	2034	Forces <= test door, OK
11 x 21	11	59.1	59.1	203M	0.017	2033	2033	Forces <= test door, OK
12 x 21	12	51.2	51.2	203M	0.017	2033	2033	Forces <= test door, OK
13 x 21	13	45.0	45.0	203M	0.017	2035	2035	Forces <= test door, OK
14 x 21	14	40.0	40.0	203M	0.017	2035	2035	Test Door
15 x 21	15	35.9	35.9	203M	0.017	2035	2035	Forces <= test door, OK
16 x 21	16	32.4	32.4	203M	0.017	2036	2036	Forces <= test door, OK
17 x 21	17	29.5	29.5	203M	0.017	2035	2035	Forces <= test door, OK
18 x 21	18	27.0	27.0	203M	0.017	2036	2036	Forces <= test door, OK
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Design wind forces are calculated to produce catenary forces at the guides equal to or less than those calculated for the test door.

This indicates that the curtain, windlocks, windlock connections, guide angles, and jamb anchorages will all be stressed to approximately the same as those in the test door, provided that the door is constructed the same for all opening widths.

