

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IBC-2416-180-26-I		Test Date:	6/18-6/20/2013		Project No.:	08-106			
Design Pressures:	+45 psf, -52 psf		Report Date:	11/3/2020		Model #	2400			
Test Pressures:	+67.5 psf, -78 psf		Test Location:	American Test Lab, Inc., Brevard, NC						
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Roof Slope ≤ 10°; Enclosed Building									
	Exp. B, 30' MRH		Exp. C, 15' MRH		Exp. C, 25' MRH		Exp. D, 15' MRH		Exp. D, 25' MRH	
	233 mph		212 mph		201 mph		192 mph		185 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0618.01-13 dated 7/10/2013, and Addendum dated 8/19/2013
- Amarr Garage Doors drawing number IBC-2416-180-26-I dated 5/30/2013

Description of Test Specimen:

Amarr Garage Door 16'-2"x8'-0" Model 2400, 24 ga steel garage door as shown in drawing IBC-2416-180-26-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with FBC TAS 201, 202, 203; ASTM E330, E1886, E1996, F588; and ANSI / DASMA 108, 115
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- The door was operable before and after test
- The test was witnessed and certified by David Johnson, P.E. of Brevard, NC (FL PE #00061915)

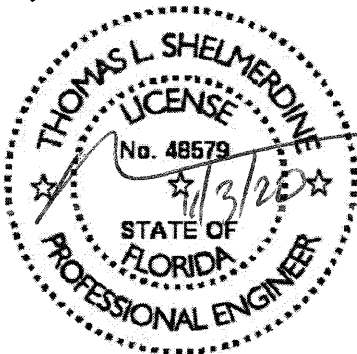
Summary:

The 16'-2"x8'-0" Model 2400 door as described on Drawing IBC-2416-180-26-I meets the testing criteria as described above. By comparison to the construction of the 16'-2"x8'-0" Model 2400, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IBC-2416-180-26-I:

- 16'-2" x 8'-0" Model 2000 doors (which are constructed of thicker 20 gauge steel in lieu of 24 gauge steel)
- Model 2000 and 2400 doors with widths up to 16'-2" and heights up to 24'-0"

To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 7th Edition (2020).

Submitted By:



STRUCTURAL SOLUTIONS, P.A. (Florida: dba Structural Solutions of North Carolina, Inc., Firm #29412)

Thomas L. Shelmerdine, PE (NC PE #14654; Florida PE #0048579)

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ Fax (336) 856-2687 ■ NC Firm #C-1096