

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IBC-2720-130-26-I		Test Date:	6/18-6/20-2013		Project No.:	13-047			
Design Pressures:	+22.9 psf, -25.7 psf		Report Date:	11/3/2020		Model #	2700			
Test Pressures:	+34.4 psf, -38.5 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	
	168 mph		152 mph		145 mph		138 mph		133 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0618.02-13 dated 7/10/2013, and Addendum dated 8/21/2013
- Amarr Garage Doors drawing number IBC-2720-130-26-I dated 5/10/2013

Description of Test Specimen:

Amarr Garage Door 20'-2"x8'-0" Model 2700, 27 ga steel garage door as shown in drawing IBC-2720-130-26-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 in 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)

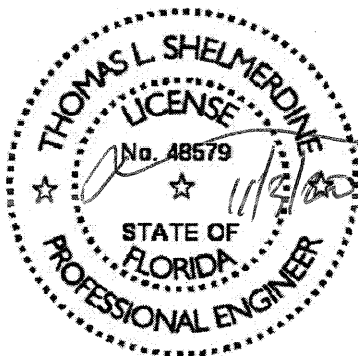
Summary:

The 20'-2"x8'-0" Model 2700 door as described on Drawing IBC-2720-130-26-I meets the testing criteria as described above. By comparison to the construction of the 20'-2"x8'-0" Model 2700, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IBC-2720-130-26-I:

- 20'-2" x 8' Model 2720 doors (which are constructed of thicker 20 gauge steel in lieu of 27 gauge steel)
- Model 2700 and 2720 doors with widths up to 20'-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)

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