

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2709-150-11-I		Test Date:	8/7-8/8/2019		Project No.:	15-138			
Design Pressures:	+32.6 psf, -38.3 psf		Report Date:	10/14/2020		Model #	2700			
Test Pressures:	+48.9 psf, -57.5 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	
	195 mph		177 mph		168 mph		160 mph		154 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0807.01-19 dated 12/3/2019
- Entrematic Drawing number IBC-2709-150-11-I dated 11/1/2019

Description of Test Specimen:

9'-2"x8'-0" Model 2700, 27 ga steel garage door as shown in drawing IBC-2709-150-11-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E1886-05, E1996-09, F588-07; and ANSI / DASMA 115-2017.
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- All tests were conducted with no deviations.
- The test was witnessed and certified by David Johnson, PE, 1122 Calvert Road, Brevard, NC (FL PE #00061915)
- American Test Lab is accredited by IAS, Certification #TL-423.

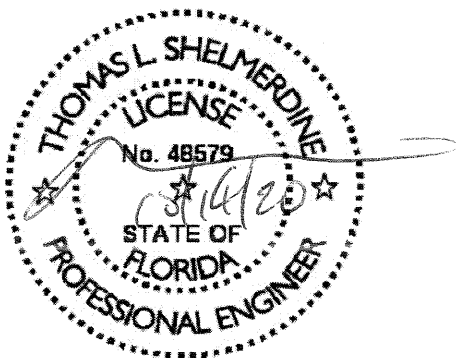
Summary:

The 9'-2"x8'-0" Model 2700 as described on drawing IBC-2709-150-11-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-2"x8'-0" Model 2700, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2709-150-11-I:

- 9'-2" x 8'-0" Model 2720 doors (which are constructed of thicker 20 ga exterior steel in lieu of 27 ga steel)
- 9'-2" x 8'-0" Amarr #2742 and #2042 doors; which are alternate model numbers
- Model 2700, 2720, Amarr #2742 and #2042 doors with widths up to 9'-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:



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