

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2710-130-00-I	Test Date:	11/14-11/15/2018	Project No.:	18-017
Design Pressures:	+24.1 psf, -28 psf	Report Date:	10/13/2020	Model #	2700
Test Pressures:	+36.2 psf, -42 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-1114.01-18 dated 4/4/2019
- Entrematic Drawing number IBC-2710-130-00-I dated 3/21/2019

Description of Test Specimen:

10'-2"x8'-0" Model 2700, 27 ga steel garage door as shown in drawing IBC-2710-130-00-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 115-2012.
- The weight of the missile used for the Large Missile Impact Test was 9 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.

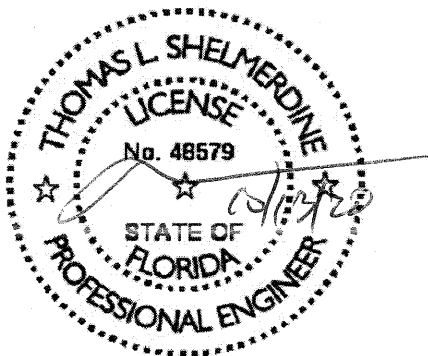
Summary:

The 10'-2"x8'-0" Model 2700 as described on drawing IBC-2710-130-00-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 10'-2"x8'-0" Model 2700, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2710-130-00-I:

- 10'-2" x 8' Model 2720 doors (which are constructed of thicker 20 gauge steel in lieu of 27 gauge steel)
- Amarr # 2742 and 2042 doors, which are alternate model numbers for Model 2700 and 2720 respectively
- Model 2700, Model 2720, Amarr 2742 and Amarr 2042 doors with widths up to 10'-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)

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