

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2510-150-15-I		Test Date:	8/5-8/7/2019		Project No.:	19-026			
Design Pressures:	+32.1 psf, -37.3 psf		Report Date:	10/14/2020		Model #	2500			
Test Pressures:	+48.2 psf, -56 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	
	194 mph		176 mph		167 mph		160 mph		153 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0805.02-19 dated 11/19/2019
- Entrematic Drawing number IBC-2510-150-15-I dated 11/1/2019

Description of Test Specimen:

10'-2"x8'-0" Model 2500, 25 ga steel garage door as shown in drawing IBC-2510-150-15-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 / DASHA 115-2012.
- 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.

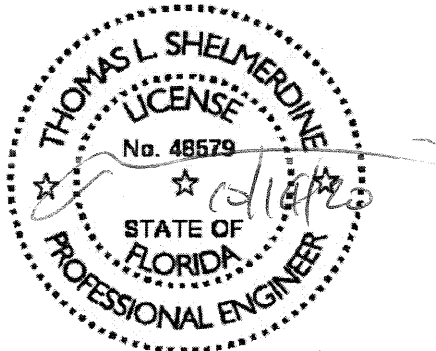
Summary:

The 10'-2"x8'-0" Model 2500 as described on drawing IBC-2510-150-15-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 10'-2"x8'-0" Model 2500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2510-150-15-I:

- Model 2400 doors (which are constructed of thicker 24 gauge steel in lieu of 25 gauge steel)
- Model 2000 doors (which are constructed of thicker 20 gauge steel in lieu of 25 gauge steel)
- Amarr 2502, 2402, & 2002 (which are alternate names for Model 2500, 2400 & 2000 respectively)
- Amarr 2512, 2412 & 2012 (which are Model 2500, 2400 & 2000 doors with drop-in insulation)
- Amarr 2422 & 2022 (which are Model 2400 & 2000 doors with drop-in insulation and steel backing inserts over the insulation)
- Model 2500, 2400, 2000, Amarr 2502, 2402, 2002, 2512, 2412, 2012, 2422 & 2022 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:



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