

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-5318-150-26-I		Test Date:	5/21-5/23/2018		Project No.:	18-023			
Design Pressures:	+33.7 psf, -38.1 psf		Report Date:	10/12/2020		Model #	500			
Test Pressures:	+50.6 psf, -57.2 psf		Test Location:	American Test Lab, Inc., Brevard, NC						
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Any Roof Slope; 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		168 mph		160 mph		154 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0521.01-18 dated 2/14/2019
- Entrematic Drawing number IRC-5318-150-26-I dated 1/31/2019

Description of Test Specimen:

18'-0"x8'-0" Model 500, 24 ga steel garage door as shown in drawing IRC-5318-150-26-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 115-12.
- The weight of the missile used for the Large Missile Impact Test was 9.4 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.

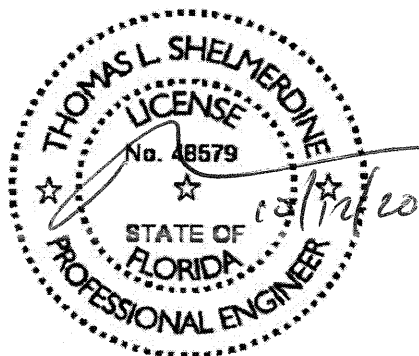
Summary:

The 18'-0"x8'-0" Model 500 as described on drawing IRC-5318-150-26-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x8'-0" Model 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-5318-150-26-I:

- 18' x 8' Amarr Classica 1000 doors (which is an alternate name for the Model 500)
- 18' x 8' Amarr Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Amarr Classica 1000 and Amarr Classica 2000 doors with widths up to 18'-0" and heights up to 14'-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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