

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IRC-5318-140-26-I		Test Date:	7/23-7/25/12		Project No.:	12-044			
Design Pressures:	+29.4 psf, -33.3 psf		Report Date:	11/9/2020		Model #	500 Classica 1000			
Test Pressures:	+44.1 psf, -50 psf		Test Location:	Amarr Garage Doors, Winston-Salem, 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	
	182 mph		165 mph		157 mph		150 mph		144 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0723.01-12 dated 8/8/2012, and Addendum dated 8/15/2012
- Amarr Garage Doors drawing number IRC-5318-140-26-I dated 6/25/2012

Description of Test Specimen:

Amarr Garage Door 18'-0"x8'-0" Model 500 Classica 1000, 24 ga steel garage door as shown in drawing IRC-5318-140-26-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E1886, E1996, F588; and ANSI / DASMA 115
- The weight of the missile used for the Large Missile Impact Test was 9.4 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)

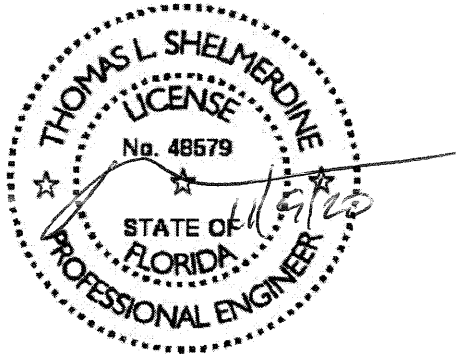
Summary:

The 18'-0"x8'-0" Model 500 Classica 1000 door as described on Drawing IRC-5318-140-26-I meets the testing criteria as described above. By comparison to the construction of the 18'-0"x8'-0" Model 500 Classica 1000, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-5318-140-26-I:

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