

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-9518-180-26-I		Test Date:	7/15-7/16/2015		Project No.:	15-121			
Design Pressures:	+48.6 psf, -55 psf		Report Date:	10/29/2020		Model #	950			
Test Pressures:	+72.9 psf, -82.5 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	
	232 mph		211 mph		200 mph		191 mph		184 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0715.01-15 dated 11/2/2015
- Entrematic Drawing number IRC-9518-180-26-I dated 9/30/2015

Description of Test Specimen:

18'-0"x7'-0" Model 950, 24 ga steel garage door as shown in drawing IRC-9518-180-26-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with FBC TAS 201, 202, 203; ASTM E330-02, E1886-05, E1996-09, E8, F588-04; and ANSI / DASHA 108-2005, 115-2005.
- 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, 1656 Calvert Road, Brevard, NC (FL PE #00061915)
- American Test Lab is accredited by IAS, Certification #TL-423.

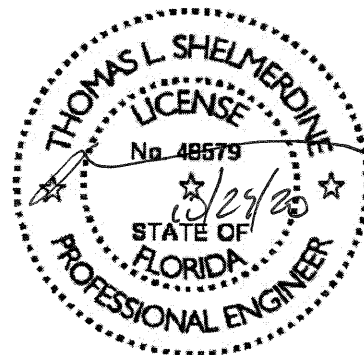
Summary:

The 18'-0"x7'-0" Model 950 as described on drawing IRC-9518-180-26-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model 950, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-9518-180-26-I:

- 18' x 7' Model 655 doors (which have an alternate embossment pattern)
- 18' x 7' Amarr Heritage 1000 doors (which is an alternate name for the Model 950)
- 18' x 7' Amarr Heritage 2000 doors (which is the Model 950 with drop-in insulation)
- 18' x 7' Amarr Oak Summit 1000 doors (which is an alternate name for the Model 655)
- 18' x 7' Amarr Oak Summit 2000 doors (which is the Model 655 with drop-in insulation)
- Short, Long, Flush and Oak Summit panels, which are alternate embossment patterns
- Model 950, Model 655, Amarr Heritage 1000 & 2000, and Amarr Oak Summit 1000 & 2000 doors with widths of up to 18' and heights of up to 14'.
- 8 short panel windows (5/16" x 18-1/8" x 10-5/8" annealed laminated glass with .090" PVB interlayer - meets ASTM E1300-04)

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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