

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-9509-169-15		Test Date:	1/28-1/29/2013		Project No.:	03-021			
Design Pressures:	+45.3 psf, -51.2 psf		Report Date:	10/29/2020		Model #	950			
Test Pressures:	+68 psf, -76.8 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	
	214 mph		194 mph		184 mph		176 mph		169 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0128.01-13R dated 4/2/2013
- Amarr Garage Doors drawing number IRC-9509-169-15 dated 3/12/2003

Description of Test Specimen:

Amarr Garage Door 9'-0"x7'-0" Model 950, 24 ga steel garage door as shown in drawing IRC-9509-169-15.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with FBC TAS 201, 202, 203; ASTM E330-02, E1886-05, E1996-05, F588-04; and ANSI / DASHA 1082002, 115-2005
- The weight of the missile used for the Large Missile Impact Test was 9.3 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)

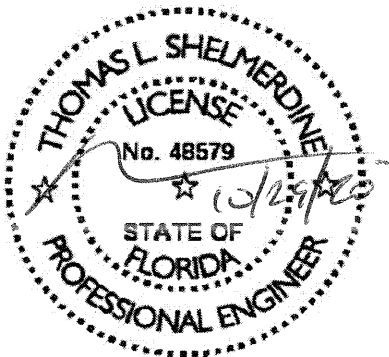
Summary:

The 9'-0"x7'-0" Model 950 door as described on Drawing IRC-9509-169-15 meets the testing criteria as described above. By comparison to the construction of the 9'-0"x7'-0" Model 950, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-9509-169-15:

- 9' x 7' Model 655 doors (which have the "Oak Summit" embossment pattern)
- 9' x 7' Model 950i and 655i doors (which have drop-in insulation)
- Model 950, 950i, 655 and 655i doors with widths of up to 9' and heights of up to 14'.
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin.

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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