

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6016-140-24-G		Test Date:	11/16-11/18/09		Project No.:	03-029	
Design Pressures:	+29.7 psf, -33.8 psf		Report Date:	11/10/2020				
Test Pressures:	+44.5 psf, -50.7 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			
	181 mph	164 mph	156 mph	149 mph	143 mph			

Reference Test Report and Drawing:

American Test Lab, Inc. report number ATLNC-1116.01-09R dated 01/25/2010

American Test Lab, Inc. Addendum dated 02/25/2010

Amarr Garage Doors drawing number IRC-6016-140-24-G dated 11/20/2009

Description of Test Specimen:

Amarr Garage Door 16' x 7' 25 ga steel garage door Model # 600 Stratford 1000 as shown in drawing IRC-6016-140-24-G.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E330, E1996; and ANSI / DASMA 108 & 115
- The weight of the missile used for the Large Missile Impact Test was 9 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)

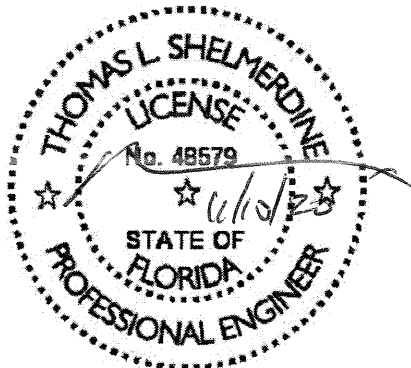
Summary:

The 16' x 7' Model 600 Stratford 1000 door as described on Drawing IRC-6016-140-24-G meets the testing criteria as described above. By comparison to the construction of the 16' x 7' Model 600 Stratford 1000, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-6016-140-24-G:

- Model 650 doors (which have the "Oak Summit" embossment pattern)
- Model 950 doors (which have thicker 24 ga. exterior skin)
- Stratford 1000 doors (which are Model 600), Oak Summit 1000 doors (which are Model 650), Heritage 1000 doors (which are Model 950)
- Stratford 2000, Oak Summit 2000, and Heritage 2000 doors (which have drop-in insulation)
- Model 600, 650, 950, Stratford 1000 & 2000, Oak Summit 1000 & 2000, and Heritage 1000 & 2000 doors with widths of up to 16' and heights of up to 14'.
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- 8 short panel windows may be installed in 1 section (5/16" annealed laminated glass with .090" PVB interlayer)

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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Thomas L. Shelmerdine, PE (Florida PE #0048579)