

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6016-140-24		Test Date:	6/2/2015		Project No.:	03-029			
Design Pressures:	+29.7 psf, -33.8 psf		Report Date:	11/2/2020		Model #	600			
Test Pressures:	+44.6 psf, -50.7 psf		Test Location:	Entrematic, 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	
	181 mph		164 mph		156 mph		149 mph		143 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-6016-140-24 dated 11/02/2020
- Entrematic Drawing number IRC-6016-140-24 dated 8/13/2003

Description of Test Specimen:

16'-0"x7'-0" Model 600, 25 ga steel garage door as shown in drawing IRC-6016-140-24.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-14 and DASMA 108-05.
- The test was witnessed and certified by Thomas L. Shelmerdine, PE (FL PE# 48579)
- The test facility at Entrematic is accredited by the American Association for Laboratory Accreditation, Certificate #2595.01.

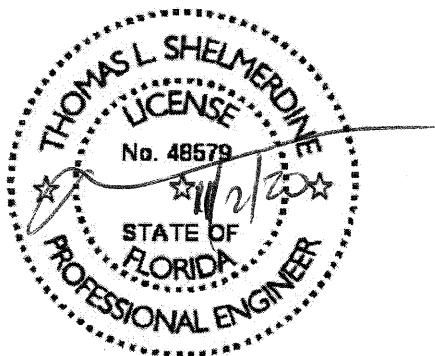
Summary:

The 16'-0"x7'-0" Model 600 as described on drawing IRC-6016-140-24 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-0"x7'-0" Model 600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-6016-140-24:

- Model 950 doors (which are constructed of thicker 24 gauge steel in lieu of 25 gauge steel)
- Model 650 doors (which have a different embossment pattern in the skin)
- Amarr Stratford 1000, Amarr Oak Summit 1000, & Amarr Heritage 1000 (which are alternate names for Models 600, 650 & 950)
- Amarr Stratford 2000, Amarr Oak Summit 2000, & Amarr Heritage 2000 (which are Models 600, 650 & 950 with drop-in insulation)
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Door Models 600, 650, 950, Amarr Stratford 1000 & 2000, Amarr Oak Summit 1000 & 2000, and Amarr Heritage 1000 & 2000 with widths up to 16'-0" and heights up to 14'-0"
- 8 short panel (18-1/8" x 10-5/8") or 4 long panel (38-1/8" x 10-5/8") windows (3/32" annealed glass minimum - meets ASTM E1300-04) may be installed in 1 section

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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