

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6016-140-17		Test Date:	7/1/2005	Project No.:	02-076
Design Pressures:	+30.1 psf, -33.8 psf		Report Date:	10/30/2020		
Test Pressures:	+45.2 psf, -50.6 psf		Test Location:	Amarr Garage Doors Test Facility		
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-6016-140-17 dated 10/30/2020.
- Entrematic Drawing number IRC-6016-140-17 dated 5/22/2003.

Description of Test Specimen:

16' x 7' 25 ga steel garage door Model 600 as shown in drawing IRC-6016-140-17.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E330
- The door was operable before and after test
- 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.

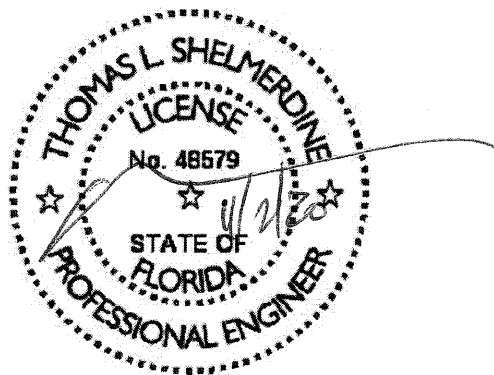
Summary:

The 16' x 7' Model 600 as described on Drawing IRC-6016-140-17 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16' x 7' Model 600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-6016-140-17:

- 16' x 7' Model 950 doors (which are constructed of thicker 24 gauge steel in lieu of 25 gauge steel)
- 16' x 7' Model 650 doors (which have the "Oak Summit" embossment pattern)
- 10' to 16' wide Model 600, 650 and 950 doors with heights of 6'-6" through 14'-0"
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- 8 short panel or 4 long panel windows may be installed in 1 section (3/32" annealed glass - 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.

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