

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6716-155-45		Test Date:	3/9/2006	Project No.:	06-012
Design Pressures:	+37.0 psf, -41.0 psf		Report Date:	10/23/2020		
Test Pressures:	+55.5 psf, -61.5 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	
	199 mph	181 mph	172 mph	164 mph	157 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-6716-155-45 dated 10/23/2020.
- Entrematic Drawing number IRC-6716-155-45 dated 3/23/2006.

Description of Test Specimen:

16' x 7' galvanized sheet steel garage door Model 650 as shown in drawing IRC-6716-155-45.

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.

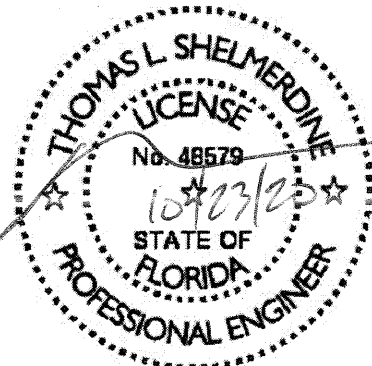
Summary:

The 16' x 7' Model 650 as described on Drawing IRC-6716-155-45 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16' x 7' Model 650, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-6716-155-45:

- 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 (which are Model 650), Heritage 1000 (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 8'.
- 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)