

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1518-100-15	Test Date:	5/25/2007	Project No.:	07-033
Design Pressures:	+15.0 psf, -17.0 psf	Report Date:	11/12/2020		
Test Pressures:	+22.5 psf, -25.5 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
	129 mph	117 mph	111 mph	106 mph	102 mph

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-1518-100-15 dated 11/11/2020.
- Entrematic Drawing number IRC-1518-100-15 dated 5/30/2007.

Description of Test Specimen:

18' x 7' 27 ga steel garage door Model 1500 as shown in drawing IRC-1518-100-15.

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.

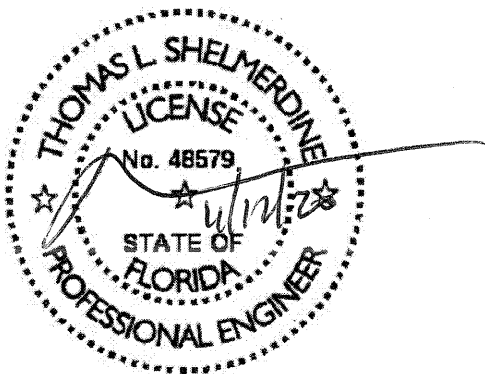
Summary:

The 18' x 7' Model 1500 as described on Drawing IRC-1518-100-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18' x 7' Model 1500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-1518-100-15:

- Model 1200 doors (which are 2" thick and have thicker 24 ga exterior skin)
- Model 1550 doors (which have the "Oak Summit" embossment pattern)
- Heritage 3000 doors (which are Model 1200); Stratford 3000 doors (which are Model 1500); Oak Summit 3000 doors (which are Model 1550)
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- 8 windows may be installed in 1 section (1/8" tempered glass - meets ASTM E1300-04)
- Model 1200, 1500, 1550, Heritage 3000, Stratford 3000, and Oak Summit 3000 doors up to 18' wide and up to 14' high

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)