

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-5318-160-45		Test Date:	2/10/2005		Project No.:	05-012			
Design Pressures:	+38.0 psf, -43.0 psf		Report Date:	11/13/2020						
Test Pressures:	+57.1 psf, -64.5 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	
	206 mph		187 mph		178 mph		170 mph		163 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-5318-160-45 dated 11/13/2020.
- Entrematic Drawing number IRC-5318-160-45 dated 3/10/2005.

Description of Test Specimen:

18' x 8' 24 ga steel garage door Model 500 as shown in drawing IRC-5318-160-45.

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.

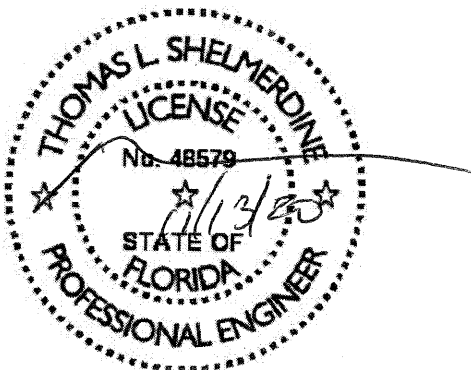
Summary:

The 18' x 8' Model 500 as described on Drawing IRC-5318-160-45 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18' x 8' Model 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-5318-160-45:

- Classica 1000 doors (which is an alternate name for the Model 500)
- Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Classica 1000 and Classica 2000 doors with widths of 16'-2" up to 18'-0" and heights up to 8'-0"

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)