

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2456-110-15		Test Date:	9/1/2010	Project No.:	10-076
Design Pressures:	+16.7 psf, -18.9 psf		Report Date:	10/20/2020		
Test Pressures:	+25.05 psf, -28.35 psf		Test Location:	Amarr Garage Doors Test Facility		
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Roof Slope ≤ 10°; Enclosed Building					
	Exp. B, 30' MRH	Exp. C, 15' MRH	Exp. C, 25' MRH	Exp. D, 15' MRH	Exp. D, 25' MRH	
	141 mph	128 mph	122 mph	117 mph	112 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-2456-110-15 dated 10/20/2020.
- Entrematic Drawing number IBC-2456-110-15 dated 9/30/2010.

Description of Test Specimen:

16'-2" x 8' 24 ga steel and aluminum garage door Model 2400/3550 as shown in drawing IBC-2456-110-15.

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.

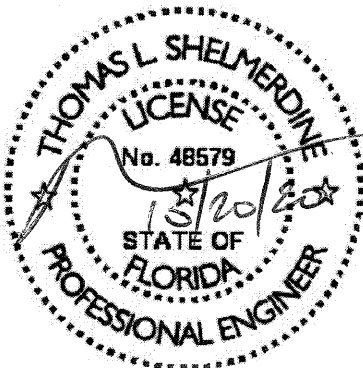
Summary:

The 16'-2" x 8' Model 2400/3550 as described on Drawing IBC-2456-110-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2" x 8' Model 2400/3550, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IBC-2456-110-15:

- Model 2000/3550 doors (which use thicker 20 gage steel sections)
- Model 2400/3550 and Model 2000/3550 doors with widths up to 16'-2" and heights up to 24'-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)