

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2416-110-63-A		Test Date:	7/30/2018		Project No.:	18-083			
Design Pressures:	+16.7 psf, -18.9 psf		Report Date:	10/21/2020		Model #	2400/3550			
Test Pressures:	+25.1 psf, -28.4 psf		Test Location:	Entrematic, Winston-Salem, NC						
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	
	142 mph		129 mph		123 mph		117 mph		112 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-2416-110-63-A dated 10/21/2020
- Entrematic Drawing number IBC-2416-110-63-A dated 12/4/2018

Description of Test Specimen:

16'-2"x8'-0" Model 2400/3550, 24 ga steel and aluminum garage door as shown in drawing IBC-2416-110-63-A.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

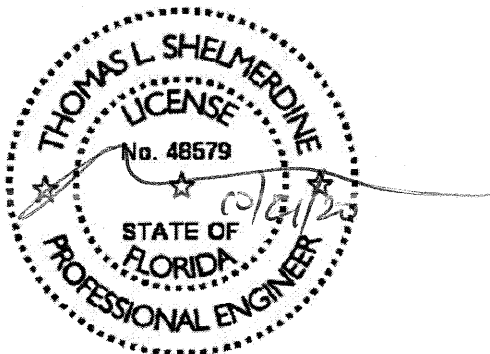
- The tests were conducted in accordance with ASTM E330-14 and DASMA 108-12.
- The test was witnessed and certified by Thomas L. Shelmerdine, PE (FL PE# 48579)
- The test facility at Entrematic is accredited by the American Association for Laboratory Accreditation, Certificate #2595.01.

Summary:

The 16'-2"x8'-0" Model 2400/3550 as described on drawing IBC-2416-110-63-A meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2"x8'-0" Model 2400/3550, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2416-110-63-A:

- 16'-2"x8'-0" Model 2000/3550 doors (which are constructed of thicker 20 gauge steel in lieu of 24 gauge steel)
- 16'-2"x8'-0" Amarr # 2402/3552 and 2002/3552 doors which are alternate model numbers for Models 2400/3550 and 2000/3550
- 16'-2"x8'-0" Amarr # 2412/3552 and 2012/3552 doors which are Models 2400/3500 and 2000/3500 with drop-in insulation
- 16'-2"x8'-0" Amarr # 2422/3552 and 2022/3552 doors which are Models 2400/3500 and 2000/3500 with drop-in insulation & steel backing inserts
- Model 2400/3500, 2000/3500, Amarr # 2402/3552, 2412/3552, 2422/3552, 2002/3552, 2012/3552, 2022/3552 doors with widths up to 16'-2" and heights up to 24'-0"
- 4 windows may be installed in the aluminum section (50 7/8" x 20 13/16" x 1/8" DSB)

To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 7th Edition (2020).



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