

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1012-104-11		Test Date:	10/12/2016	Project No.:	16-083
Design Pressures:	+15.3 psf, -17.6 psf		Report Date:	10/29/2020	Model #	1000
Test Pressures:	+22.9 psf, -26.4 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	
	135 mph	122 mph	116 mph	111 mph	106 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-1012-104-11 dated 10/29/2020
- Entrematic Drawing number IBC-1012-104-11 dated 12/5/2016

Description of Test Specimen:

12'-2"x8'-0" Model 1000, 27ga interior skin / 24ga exterior skin steel garage door as shown in drawing IBC-1012-104-11.

Test Standards:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-14 and DASMA 108-05.
- 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.

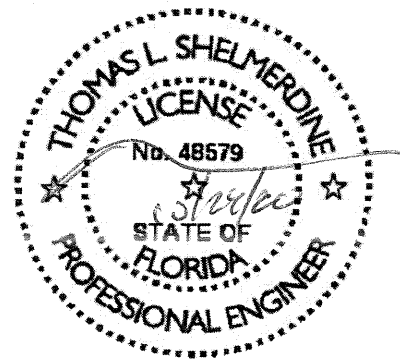
Summary:

The 12'-2"x8'-0" Model 1000 as described on drawing IBC-1012-104-11 meets or exceeds the testing criteria as described above. By comparison to the construction of the 12'-2"x8'-0" Model 1000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1012-104-11:

- 12'-2"x8'-0" Amarr Model # 2432 doors, which is an alternate model number for Model 1000
- Model 1000 and Amarr model 2432 doors with widths up to 12'-2" and heights up to 24'-0"
- 3 windows may be installed in 1 section (21 5/8" x 9 5/8" x 1/8" insulated tempered glass or 3 1/4" x 21 3/8" x 0.080" insulated Plexi-glass)

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.* (*Florida: dba Structural Solutions of North Carolina, Inc., Firm #29412)

Thomas L. Shelmerdine, PE (NC PE #14654; Florida PE #0048579)

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