

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2709-140-11-A		Test Date:	7/11/2017		Project No.:	17-059			
Design Pressures:	+28.1 psf, -33 psf		Report Date:	10/28/2020		Model #	2700/3550			
Test Pressures:	+42.2 psf, -49.5 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	
	181 mph		164 mph		156 mph		149 mph		143 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-2709-140-11-A dated 10/28/2020
- Entrematic Drawing number IBC-2709-140-11-A dated 10/18/2017

Description of Test Specimen:

9'-2"x8'-0" Model 2700/3550, 27 ga steel and aluminum garage door as shown in drawing IBC-2709-140-11-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.

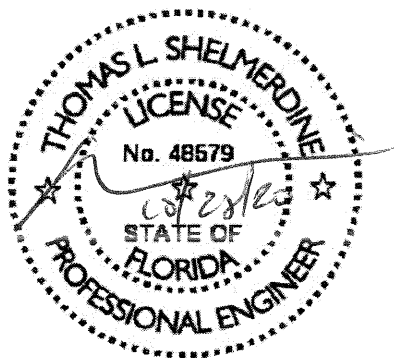
Summary:

The 9'-2"x8'-0" Model 2700/3550 as described on drawing IBC-2709-140-11-A meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-2"x8'-0" Model 2700/3550, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2709-140-11-A:

- 9'-2" x 8'-0" Model 2720/3550 doors (which are constructed of thicker 20 gauge steel sections in lieu of 27 gauge steel sections)
- Amarr Model # 2742/3552 and 2042/3552 doors, which are alternate model numbers for the 2700/3550 and 2720/3550 doors
- Model 2700/3550, 2720/3550, Amarr Model # 2742/3552, and 2042/3552 doors with widths up to 9'-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.* (*Florida: dba Structural Solutions of North Carolina, Inc., Firm #29412)

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

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