

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2709-130-11-R		Test Date:	11/28/2018		Project No.:	18-142			
Design Pressures:	+24.2 psf, -28.4 psf		Report Date:	10/13/2020		Model #	2700			
Test Pressures:	+36.3 psf, -42.6 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	
	168 mph		152 mph		145 mph		138 mph		133 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-2709-130-11-R dated 10/13/2020
- Entrematic Drawing number IBC-2709-130-11-R dated 5/30/2019

Description of Test Specimen:

9'-4"x8'-0" Model 2700, 27 ga steel garage door as shown in drawing IBC-2709-130-11-R.

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.

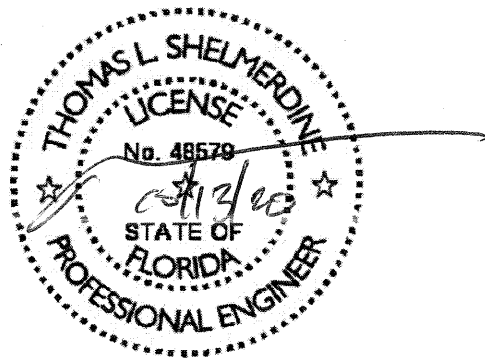
Summary:

The 9'-4"x8'-0" Model 2700 as described on drawing IBC-2709-130-11-R meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-4"x8'-0" Model 2700, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2709-130-11-R:

- 9'-4" x 8' Model 2720 doors (which are constructed of thicker 20 ga steel in lieu of 27 ga steel)
- Amarr # 2742 and 2042 which are alternate model numbers for Model 2700 and 2742 respectively
- Model 2700, 2720, Amarr # 2742 and 2042 doors with widths up to 9'-4" and heights up to 24'-0"
- 2 insulated windows (each 2 layers of glazing with spacers) may be installed in 1 section.
Options are 21 5/8" x 9 5/8" x 1/8" DSB glass, or 23 3/8" x 10 3/16" x 0.080" plexiglass.

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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