

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2709-120-00-R		Test Date:	11/28/2018		Project No.:	18-141			
Design Pressures:	+20.6 psf, -24.2 psf		Report Date:	10/14/2020		Model #	2700			
Test Pressures:	+30.9 psf, -36.3 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	
	155 mph		140 mph		134 mph		128 mph		122 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-2709-120-00-R dated 10/14/2020
- Entrematic Drawing number IBC-2709-120-00-R dated 7/30/2019

Description of Test Specimen:

9'-4"x8'-0" Model 2700, 27 ga steel garage door as shown in drawing IBC-2709-120-00-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.

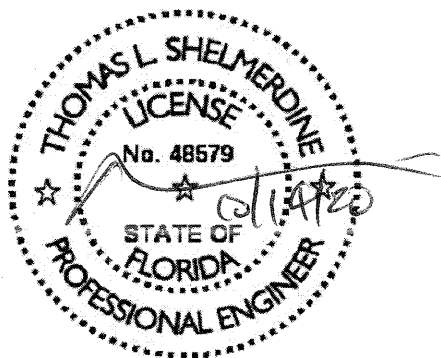
Summary:

The 9'-4"x8'-0" Model 2700 as described on drawing IBC-2709-120-00-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-2709-120-00-R:

- 9'-4" x 8' Model 2720 doors (which are constructed of thicker 20 gauge steel in lieu of 27 gauge steel)
- Amarr 2742 and 2042 doors, which are alternate model numbers for Model 2700 and 2720 respectively
- Model 2700, Model 2720, Amarr 2742 and Amarr 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 one section. Options are 21 5/8" x 9 5/8" x 1/8" tempered, 21 3/8" x 3 1/4" x 0.080" plexiglass, 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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