

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-2710-115-00-M		Test Date:	5/14/2019	Project No.:	19-035
Design Pressures:	+18.8 psf, -21.9 psf		Report Date:	10/14/2020	Model # 2700	
Test Pressures:	+28.2 psf, -32.9 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	
	148 mph	135 mph	128 mph	122 mph	117 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-2710-115-00-M dated 10/14/2020
- Entrematic Drawing number IBC-2710-115-00-M dated 10/18/2019

Description of Test Specimen:

10'-2"x8'-0" Model 2700, 27 ga steel garage door as shown in drawing IBC-2710-115-00-M.

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.

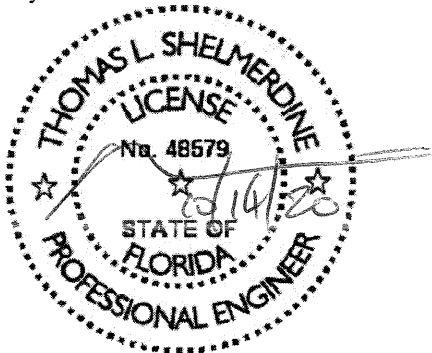
Summary:

The 10'-2"x8'-0" Model 2700 as described on drawing IBC-2710-115-00-M meets or exceeds the testing criteria as described above. By comparison to the construction of the 10'-2"x8'-0" Model 2700, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-2710-115-00-M:

- 10'-2" x 8'-0" Model 2720 doors (which are constructed of thicker 20 ga exterior steel in lieu of 27 ga steel)
- 10'-2" x 8'-0" Amarr #2742 and #2042 doors, which are alternate model numbers for 2700 and 2720
- Model 2700, 2720, Amarr #2742 and #2042 doors with widths up to 10'-2" and heights up to 24'-0"
- Up to 3 windows may be installed in any section or sections except the bottom section. Windows may be 3 1/4" x 21 3/8" x 0.080" insulated plexiglass, 10 3/16" x 23 3/8" x 0.080" insulated plexiglass, or 9 5/8" x 21 5/8" x 1/8" tempered 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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