

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1314-150-15		Test Date:	12/21/2017	Project No.:	17-108
Design Pressures:	+31.5 psf, -35.9 psf		Report Date:	10/28/2020	Model #	1350
Test Pressures:	+47.3 psf, -53.9 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	
	194 mph	176 mph	168 mph	160 mph	154 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-1314-150-15 dated 10/28/2020
- Entrematic Drawing number IBC-1314-150-15 dated 3/15/2018

Description of Test Specimen:

14'-2"x8'-0" Model 1350, 27 ga steel garage door as shown in drawing IBC-1314-150-15.

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.

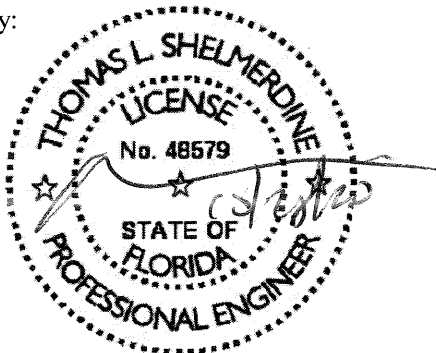
Summary:

The 14'-2"x8'-0" Model 1350 as described on drawing IBC-1314-150-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 14'-2"x8'-0" Model 1350, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1314-150-15:

- 14'-2" x 8' Model 2700 doors (which are 2" thick in lieu of 1-3/8" thick)
- 14'-2" x 8' Model 2720 doors (which are 2" thick in lieu of 1-3/8" thick and have thicker 20ga exterior skin in lieu of 27ga steel)
- 14'-2" x 8' Amarr # 2741, 2742, and 2042 doors (which are alternate model numbers for 1350, 2700 and 2720)
- Model 1350, 2700, 2720, Amarr # 2741, 2742, and 2042 doors with widths up to 14'-2" and heights up to 24'-0"
- 4 windows may be installed in 1 section (3-1/4" x 21-3/8" x 0.080 insulated plexiglass, or 10-3/16" x 23-3/8" x 0.080 insulated plexiglass, or 9-5/8" x 21-5/8" x 1/8" DSB)

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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