

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1218-130-17-M		Test Date:	6/7/2021		Project No.:	21-052			
Design Pressures:	+25.4 psf, -28.7 psf		Report Date:	8/9/2021		Model #	1200			
Test Pressures:	+38.1 psf, -43.1 psf		Test Location:	Entrematic, 165 Carriage Ct., Winston-Salem, NC						
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Any Roof Slope; 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 IRC-1218-130-17-M dated 08/09/2021
- Entrematic Drawing number IRC-1218-130-17-M dated 06/07/2021

Description of Test Specimen:

18'-0"x7'-0" Model 1200, 24 ga exterior / 27 ga interior steel garage door as shown in drawing IRC-1218-130-17-M.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with DASMA 108-17 and ASTM E330-14.
- 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 18'-0"x7'-0" Model 1200 as described on drawing IRC-1218-130-17-M meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model 1200, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-1218-130-17-M:

- 18' x 7' Amarr Heritage 3000 doors (which is an alternate model number for Model 1200)
- 18' x 7' Amarr Oak Summit 3000 doors (which is an alternate embossment pattern)
- Model 1200, Amarr Heritage 3000, and Amarr Oak Summit 3000 doors with widths up to 18'-0" and heights up to 14'-0"
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Up to 4 long-panel windows (38-1/2" x 11" x 3/32" SSB) or up to 8 short-panel windows (18-1/2" x 11" x 3/32" SSB) may be installed in each section in any combination.

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. (dba Structural Solutions of North Carolina, Inc., Florida Firm #29412)

Thomas L. Shelmerdine, PE (Florida PE #0048579)

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