

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1218-110-15-M		Test Date:	8/29/2018	Project No.:	18-099
Design Pressures:	+18.2 psf, -20.6 psf		Report Date:	10/12/2020	Model #	1200
Test Pressures:	+27.3 psf, -30.9 psf		Test Location:	Entrematic, 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	
	142 mph	129 mph	123 mph	117 mph	112 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-1218-110-15-M dated 10/12/2020
- Entrematic Drawing number IRC-1218-110-15-M dated 12/21/2018

Description of Test Specimen:

18'-0"x7'-0" Model 1200, 24ga exterior / 27ga interior steel garage door as shown in drawing IRC-1218-110-15-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.

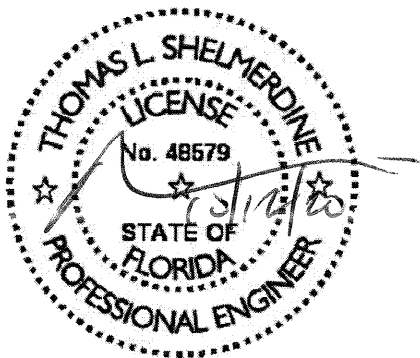
Summary:

The 18'-0"x7'-0" Model 1200 as described on drawing IRC-1218-110-15-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-1218-110-15-M:

- 18' x 7' Amarr Heritage 3000 doors, which is an alternate name for Model 1200
- 18' x 7' Amarr Oak Summit 3000 doors, which has alternate embossment patterns in the skin
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Model 1200, Amarr Heritage 3000 and Amarr Oak Summit 3000 doors up to 18'-0" wide and up to 14'-0" high
- Up to 8 short panel windows (18-1/2" x 11") or up to 4 long panel windows (38-1/2" x 11")
of 3/32" SSB glass minimum (meets ASTM E1300-04) may be installed in each section

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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