

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6018-130-24-L		Test Date:	12/21/2016	Project No.:	16-109
Design Pressures:	+25.4 psf, -28.7 psf		Report Date:	10/28/2020	Model #	600
Test Pressures:	+38.1 psf, -43.1 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	
	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-6018-130-24-L dated 10/28/2020
- Entrematic Drawing number IRC-6018-130-24-L 2/9/2017

Description of Test Specimen:

18'-0"x7'-0" Model 600, 27ga interior skin / 24ga exterior skin steel garage door as shown in drawing IRC-6018-130-24-L.

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 108-05.
- 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.

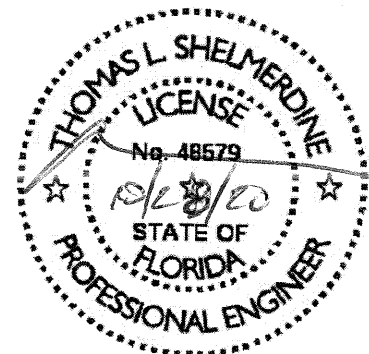
Summary:

The 18'-0"x7'-0" Model 600 as described on drawing IRC-6018-130-24-L meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model 600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-6018-130-24-L:

- 18' x 7' Model 950 doors (which are constructed of thicker 24 gauge steel in lieu of 25 gauge steel)
- 18' x 7' Model 650 doors (which have the "Oak Summit" embossment pattern in the skin)
- 18' x 7' Amarr Oak Summit 1000, Amarr Stratford 1000, and Amarr Heritage 1000, which are alternate names for Models 650, 600 & 950 respectively
- 18' x 7' Amarr Oak Summit 2000, Amarr Stratford 2000, and Amarr Heritage 2000 doors, which are alternate names for Models 650, 600 & 950 respectively with drop-in insulation
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Model 600, 650, 950, Amarr Oak Summit 1000 & 2000, Amarr Stratford 1000 & 2000, and Amarr Heritage 1000 & 2000 doors with widths up to 18'-0" and heights up to 14'-0"
- 4 long panel windows (38 1/8" x 10 5/8") of 3/32" SSB glass (meets ASTM E1300-04) may be installed in 1 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)

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