

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6009-120-15		Test Date:	2/8/2013	Project No.:	13-019
Design Pressures:	+22.8 psf, -26.9 psf		Report Date:	10/30/2020	Model #	600
Test Pressures:	+34.2 psf, -40.4 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	
	155 mph	141 mph	134 mph	128 mph	122 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-6009-120-15 dated 10/30/2020
- Entrematic Drawing number IRC-6009-120-15 dated 5/14/2003

Description of Test Specimen:

9'-0"x7'-0" Model 600, 25 ga steel garage door as shown in drawing IRC-6009-120-15.

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 108-05.
- 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.

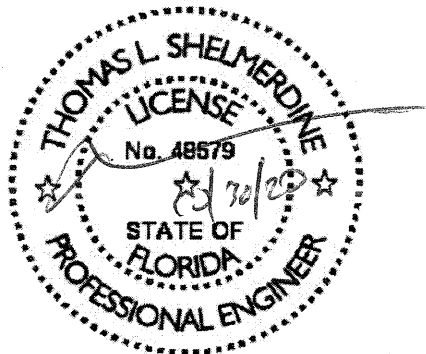
Summary:

The 9'-0"x7'-0" Model 600 as described on drawing IRC-6009-120-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-0"x7'-0" Model 600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-6009-120-15:

- 9' x 7' Model 950 doors (which are constructed of thicker 24 gauge steel in lieu of 25 gauge steel)
- 9' x 7' Model 650 doors (which have the "Oak Summit" embossment pattern)
- 8' to 9' wide Model 600, 650 and 950 doors with heights of 6'-6" through 14'-0"
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- 4 short panel or 2 long panel windows may be installed in 1 section
(3/32" annealed glass - meets ASTM E1300-04)

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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