

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6010-110-15		Test Date:	9/24/2018		Project No.:	18-113			
Design Pressures:	+19 psf, -22.2 psf		Report Date:	10/12/2020		Model #	600			
Test Pressures:	+28.5 psf, -33.3 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		122 mph		117 mph		112 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-6010-110-15 dated 10/12/2020
- Entrematic Drawing number IRC-6010-110-15 dated 12/21/2018

Description of Test Specimen:

10'-0"x7'-0" Model 600, 25 ga steel garage door as shown in drawing IRC-6010-110-15.

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.

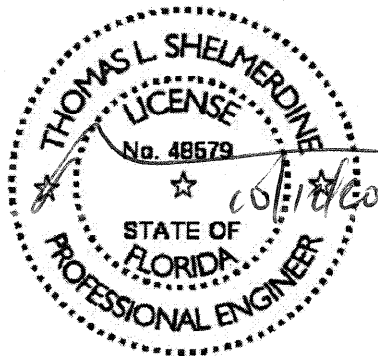
Summary:

The 10'-0"x7'-0" Model 600 as described on drawing IRC-6010-110-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 10'-0"x7'-0" Model 600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-6010-110-15:

- 10' x 7' Model 950 doors (which are constructed of thicker 24 gauge steel in lieu of 25 gauge steel)
- 10' x 7' Model 650 doors (which have the "Oak Summit" embossment pattern)
- Model 600, 650 and 950 doors with widths up to 10'-0" and heights up to 14'-0"
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- 5 short panel (18 1/2" x 11") or 2 long panel (38 1/2" x 11") windows may be installed in 1 section (3/32" SSB 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)

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ www.sspa.biz ■ NC Firm #C-1096