

# STRUCTURAL SOLUTIONS, P.A.\*

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6018-120-15	Test Date:	1/9/2013	Project No.:	13-004
Design Pressures:	+21.6 psf, -24.5 psf	Report Date:	11/2/2020	Model #	600
Test Pressures:	+32.4 psf, -36.8 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-6018-120-15 dated 11/02/2020
- Entrematic Drawing number IRC-6018-120-15 dated 10/16/2003

### Description of Test Specimen:

18'-0"x7'-0" Model 600, 25 ga steel garage door as shown in drawing IRC-6018-120-15.

### Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330 and DASMA 108
- 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.

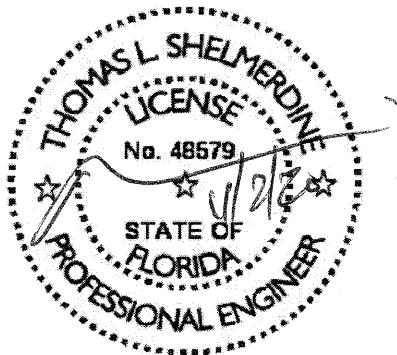
### Summary:

The 18'-0"x7'-0" Model 600 as described on drawing IRC-6018-120-15 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-6018-120-15:

- 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 )
- Model 600, 650 and 950 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
- 8 short panel (18-1/8" x 10-5/8") windows (3/32" annealed glass minimum -  
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)

Thomas L. Shelmerdine, PE (NC PE #14654; Florida PE #0048579)