

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1516-130-15		Test Date:	5/7/2013		Project No.:	12-067			
Design Pressures:	+25.6 psf, -29.1 psf		Report Date:	11/9/2020		Model #	1500 Stratford 3000			
Test Pressures:	+38.4 psf, -43.7 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-1516-130-15 dated 11/09/2020
- Entrematic Drawing number IRC-1516-130-15 dated 7/30/2012

Description of Test Specimen:

16'-0"x7'-0" Model 1500 Stratford 3000, 27 ga steel garage door as shown in drawing IRC-1516-130-15.

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.

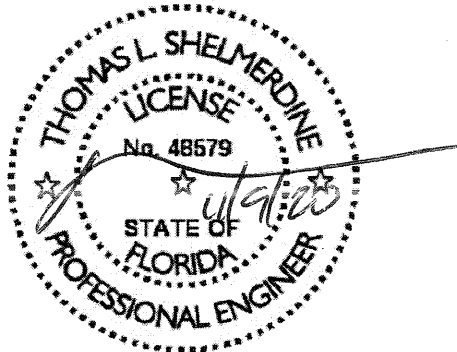
Summary:

The 16'-0"x7'-0" Model 1500 Stratford 3000 as described on drawing IRC-1516-130-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-0"x7'-0" Model 1500 Stratford 3000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-1516-130-15:

- 16' x 7' Model 1200 doors, which are 2" thick and have thicker 24 ga exterior skin
- 16' x 7' Model 1550 doors, which have alternate embossment patterns in the skin
- Heritage 3000 (which is Model 1200); Stratford 3000 (which is Model 1500) and Oak Summit 3000 (which is Model 1550) doors
- Model 1200, 1500 and 1550 doors with widths up to 16'-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") or 4 long panel (38-1/8" 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)

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