

STRUCTURAL SOLUTIONS, P.A. *

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GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1509-140-15		Test Date:	3/7/2012	Project No.:	12-024
Design Pressures:	+31.0 psf, -35.1 psf		Report Date:	10/26/2020		
Test Pressures:	+46.5 psf, -52.7 psf		Test Location:	Amarr Garage Doors, 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	
	177 mph	161 mph	153 mph	146 mph	140 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-1509-140-15 dated 10/26/2020.
- Entrematic Drawing number IRC-1509-140-15 dated 3/1/2012.

Description of Test Specimen:

9' x 7' 27 ga steel garage door Model #1500 as shown in drawing IRC-1509-140-15.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E330 and DASMA 108
- The door was operable before and after test
- 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.

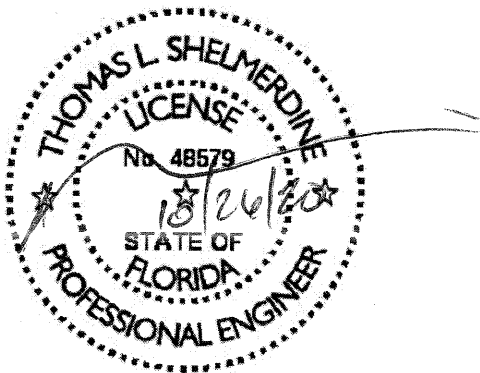
Summary:

The 9' x 7' Model 1500 Stratford 3000 as described on Drawing IRC-1509-140-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9' x 7' Model 1500 Stratford 3000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-1509-140-15:

- 9' x 7' Model 1200 doors (which are constructed of thicker 24 gauge exterior steel in lieu of 27 gauge steel)
- 9' x 7' Model 1550 doors (which have alternate embossment patterns in the skin)
- Model 1500, 1200 and 1550 doors with widths up to 9'-0" and heights up to 8'-0"
- Heritage 3000, Stratford 3000, and Oak Summit 3000 doors (which are Models 1200, 1500 and 1550 respectively)
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- 4 short panel (18-1/8" x 10-5/8") or 2 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.

Thomas L. Shelmerdine, PE (Florida PE #0048579)