

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1616-130-15		Test Date:	12/8/2011	Project No.:	11-069
Design Pressures:	+25.6 psf, -29.1 psf		Report Date:	11/10/2020		
Test Pressures:	+38.4 psf, -43.65 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	
	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-1616-130-15 dated 11/10/2020.
- Entrematic Drawing number IRC-1616-130-15 dated 12/19/2011.

Description of Test Specimen:

16' x 7' 27 ga steel garage door Model 1600 as shown in drawing IRC-1616-130-15.

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.

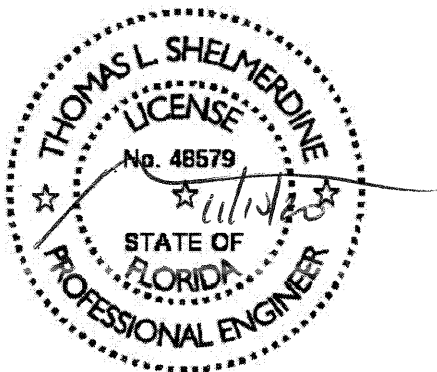
Summary:

The 16' x 7' Model 1600 Lincoln 3000 as described on Drawing IRC-1616-130-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16' x 7' Model 1600 Lincoln 3000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-1616-130-15:

- 16' x 7' Model 1650 doors (which have alternate embossment patterns in the skin)
- Model 1600 and 1650 doors with widths up to 16'-0" and heights up to 14'-0"
- Lincoln 3000 and Hillcrest 3000 doors (which are Models 1600 and 1650 respectively)
- Short, Long, Flush, and Hillcrest 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.

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