

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IRC-1616-130-15-I		Test Date:	10/29-10/30/2013		Project No.:	11-069			
Design Pressures:	+25.6 psf, -29.1 psf		Report Date:	11/10/2020		Model #	1600 Lincoln 3000			
Test Pressures:	+38.4 psf, -43.7 psf		Test Location:	American Test Lab, Inc., Brevard, 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:

- American Test Lab, Inc. report number ATLNC-1029.01-13 dated 12/16/2013
- Amarr Garage Doors drawing number IRC-1616-130-15-I dated 12/19/2011

Description of Test Specimen:

Amarr Garage Door 16'-0"x7'-0" Model 1600 Lincoln 3000, 27 ga steel garage door as shown in drawing IRC-1616-130-15-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E330, E1886, E1996, F588; and ANSI / DASMA 108, 115
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- The door was operable before and after test
- The test was witnessed and certified by David Johnson, P.E. of Brevard, NC (FL PE #00061915)

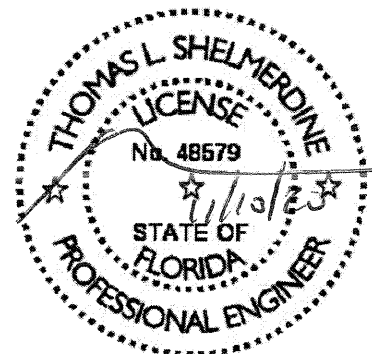
Summary:

The 16'-0"x7'-0" Model 1600 Lincoln 3000 door as described on Drawing IRC-1616-130-15-I meets the testing criteria as described above. By comparison to the construction of the 16'-0"x7'-0" Model 1600 Lincoln 3000, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-1616-130-15-I:

- 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 windows (18-1/8" x 10-5/8" x 5/16" annealed laminated glass minimum - meets ASTM E1300-04) or 4 long panel windows (38-1/16" x 10-5/8" x 1/4" polycarbonate) 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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