

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1516-130-15-I	Test Date:	10/20-10/22/2014	Project No.:	12-067
Design Pressures:	+25.6 psf, -29.1 psf	Report Date:	11/2/2020	Model #	1500 Stratford 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-1020.01-14 dated 12/11/2014
- Drawing number IRC-1516-130-15-I dated 10/16/2014 by Entrematic

Description of Test Specimen:

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

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E1886-05, E1996-09, F588-07; and ANSI / DASMA 115-2005.
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- All tests were conducted with no deviations.
- The test was witnessed and certified by David Johnson, PE, 1656 Calvert Road, Brevard, NC (FL PE #00061915)
- American Test Lab is accredited by IAS, Certification #TL-423.

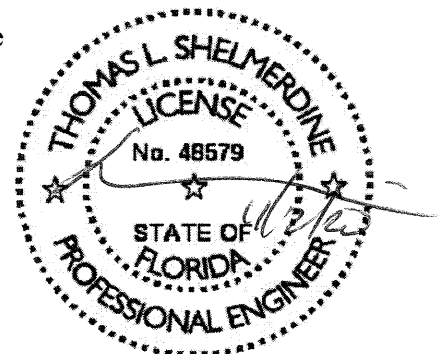
Summary:

The 16'-0"x7'-0" Model 1500 Stratford 3000 door as described on Drawing IRC-1516-130-15-I meets 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 the above testing criteria, when constructed in accordance with Drawing IRC-1516-130-15-I:

- 16' x 7' Model 1200 doors (which are 2" thick and are constructed of thicker 24 ga exterior steel in lieu of 27 ga steel)
- 16' x 7' Model 1550 doors (which have alternate embossment patterns in the skin)
- Model 1500, 1200 and 1550 doors with widths up to 16'-0" and heights up to 14'-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
- By comparison to IRC-1618-155-26-I, 8 short panel (18-1/8" x 10-5/8") or 4 long panel (38-1/16" x 10-5/8") windows made of 1/4" thick 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)

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

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ Fax (336) 856-2687 ■ NC Firm #C-1096