

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1218-165-26-I		Test Date:	11/11-11/13/2013		Project No.:	07-056			
Design Pressures:	+42 psf, -46 psf		Report Date:	11/10/2020		Model #	1200			
Test Pressures:	+63 psf, -69 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	
	212 mph		193 mph		183 mph		175 mph		168 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-1111.01-13 dated 12/17/2013
- Amarr Garage Doors drawing number IRC-1218-165-26-I dated 5/21/2007

Description of Test Specimen:

Amarr Garage Door 18'-0"x7'-0" Model 1200, 24/27 ga steel garage door as shown in drawing IRC-1218-165-26-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with FBC TAS 201, 202, 203; 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)

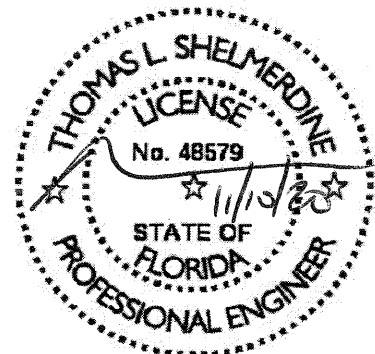
Summary:

The 18'-0"x7'-0" Model 1200 door as described on Drawing IRC-1218-165-26-I meets the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model 1200, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-1218-165-26-I:

- Model 1200 doors with widths up to 18'-0" and heights up to 14'-0"
- Heritage 3000 and Oak Summit 3000 doors (which are both Model 1200)
- Short, Long, Flush, and Oak Summit 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)

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

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