

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1218-130-24-I		Test Date:	7/28-7/30/2014		Project No.:	14-067			
Design Pressures:	+25.4 psf, -28.7 psf		Report Date:	11/2/2020		Model #	1200 Heritage 3000			
Test Pressures:	+38.1 psf, -43.1 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-0728.02-14 dated 8/26/2014
- Amarr drawing number IRC-1218-130-24-I dated 7/10/2014

Description of Test Specimen:

18'-0"x7'-0" Amarr Model 1200 Heritage 3000, 24 ga steel garage door as shown in drawing IRC-1218-130-24-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.

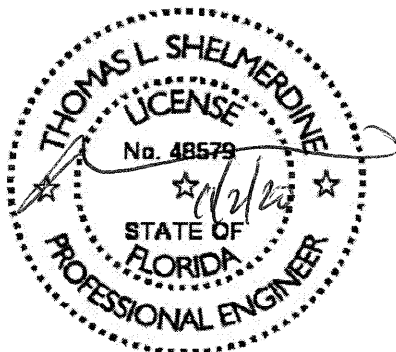
Summary:

The 18'-0"x7'-0" Model 1200 Heritage 3000 door as described on Drawing IRC-1218-130-24-I meets the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model 1200 Heritage 3000, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-1218-130-24-I:

- 18' x 7' Model 1200 Oak Summit 3000 doors, which have an alternate embossment pattern in the skin
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Model 1200 doors up to 18'-0" wide and up to 14'-0" high
- 8 short panel windows (18-1/8" x 10-5/8" x 5/16" annealed laminated glass with 0.090" PVB interlayer - 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 ■ Fax (336) 856-2687 ■ NC Firm #C-1096