

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-3316-150-26-I		Test Date:	3/21-3/24/2016		Project No.:	16-007			
Design Pressures:	+34 psf, -38.6 psf		Report Date:	10/26/2020		Model #	3000			
Test Pressures:	+51 psf, -57.9 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	
	194 mph		176 mph		168 mph		160 mph		154 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0321.01-16 dated 6/13/2016
- Entrematic Drawing number IRC-3316-150-26-I dated 4/14/2016

Description of Test Specimen:

16'-0"x8'-0" Model 3000, 25/27 ga steel garage door as shown in drawing IRC-3316-150-26-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

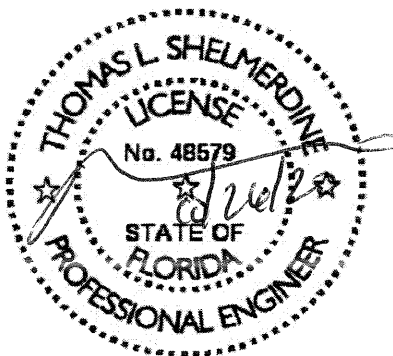
- The tests were conducted in accordance with ASTM F588-07; and ANSI / DASMA 115-2005.
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- All tests were conducted with no deviations.
- The test was witnessed and certified by David Johnson, PE, 1656 Calvert Road, Brevard,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

Summary:

The 16'-0"x8'-0" Model 3000 as described on drawing IRC-3316-150-26-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-0"x8'-0" Model 3000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-3316-150-26-I:

- 16'-0"x8'-0" Amarr Classica 3000 doors (which is an alternate name for the Model 3000)
- Model 3000 and Amarr Classica 3000 doors with widths up to 16'-0" and heights up to 14'-0"
- 4 windows may be installed in 1 section (37 3/4" x 20 1/4" x 1/4" polycarbonate)

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)

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