

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1016-185-26-F		Test Date:	7/18-7/20/2018		Project No.:	18-005			
Design Pressures:	+47.1 psf, -53.3 psf		Report Date:	10/29/2020		Model #	1000			
Test Pressures:	+70.7 psf, -80 psf		Test Location:	American Test Lab, Inc., Brevard, NC						
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Roof Slope ≤ 10°; Enclosed Building									
	Exp. B, 30' MRH		Exp. C, 15' MRH		Exp. C, 25' MRH		Exp. D, 15' MRH		Exp. D, 25' MRH	
	239 mph		217 mph		206 mph		197 mph		189 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0718.01-17 dated 2/13/2018
- Entrematic Drawing number IBC-1016-185-26-F dated 1/22/2018

Description of Test Specimen:

16'-2"x8'-0" Model 1000, 24 ga exterior / 27 ga interior steel garage door as shown in drawing IBC-1016-185-26-F.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with FBC TAS 201, 202, 203; ASTM E330-02, E1886-05, E1996-09, F588-07; and ANSI / DASMA 108-12, 115-2012.
- 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.

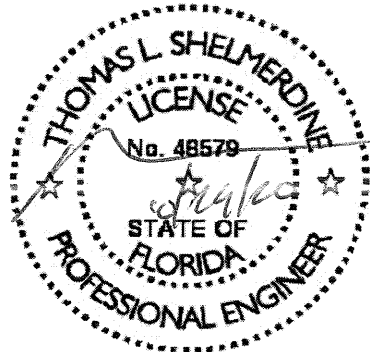
Summary:

The 16'-2"x8'-0" Model 1000 as described on drawing IBC-1016-185-26-F meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2"x8'-0" Model 1000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1016-185-26-F:

- 16'-2" x 8'-0" Amarr 2432 doors, which is an alternate model number for the Model 1000
- Model 1000 and Amarr 2432 doors with widths up to 16'-2" and heights up to 24'-0"
- Up to 4 long panel polycarbonate windows (1/4" x 38-1/16" x 10-5/8") may be installed in each 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 ■ www.sspa.biz ■ NC Firm #C-1096