

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IBC-1309-130-11-I		Test Date:	6/11-6/13/2012		Project No.:	12-036			
Design Pressures:	+24.3 psf, -28.5 psf		Report Date:	11/3/2020		Model #	1350			
Test Pressures:	+36.45 psf, -42.75 psf		Test Location:	Amarr Garage Doors, Winston-Salem, 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	
	168 mph		152 mph		145 mph		138 mph		133 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0611.02-12 dated 6/26/2012, and Addendum dated 7/10/2012
- Amarr Garage Doors drawing number IBC-1309-130-11-I dated 5/10/2012

Description of Test Specimen:

Amarr Garage Door 9'-2"x8'-0" Model 1350, 27 ga steel garage door as shown in drawing IBC-1309-130-11-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E1886, E1996, F588; and ANSI / DASMA 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)

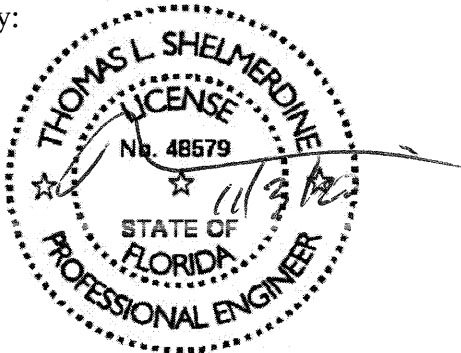
Summary:

The 9'-2"x8'-0" Model 1350 door as described on Drawing IBC-1309-130-11-I meets the testing criteria as described above. By comparison to the construction of the 9'-2"x8'-0" Model 1350, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IBC-1309-130-11-I:

- 9'-2" x 8' Model 2700 doors (which are 2" thick in lieu of 1 3/8" thick)
- Model 1350 and 2700 doors with widths up to 9'-2" and heights up to 24'-0"
- Flush and Ribbed Panels, which are alternate embossment patterns in the skin

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)

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