

STRUCTURAL SOLUTIONS, P.A. *

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GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IRC-5316-175-45		Test Date:	4/25-4/27/2006		Project No.:	05-009			
Design Pressures:	+45.9 psf, -52.1 psf		Report Date:	10/20/2020						
Test Pressures:	+68.9 psf, -78.2 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	
	226 mph		205 mph		195 mph		186 mph		179 mph	

Reference Test Report and Drawing:

American Test Lab, Inc. report number ATLNC-0425.01-06 dated 06/22/2006

American Test Lab, Inc. Addendum dated 06/23/2008

American Test Lab, Inc. report number ATLNC-0430.02-09T dated 05/06/2009

Architectural Testing, Inc. report number A7420.01-106-18 dated 4/12/2011

Amarr Garage Doors drawing number IRC-5316-175-45 dated 04/25/2006

Description of Test Specimen:

Amarr Garage Door 16' x 8' 24 ga steel garage door Model 500 Classica as shown in drawing IRC-5316-175-45.

Test Standards and Report Conclusion:

The above referenced American Test Lab reports state the following:

- The test was conducted in accordance with FBC TAS 201, 202, 203, ASTM E330, and ANSI/DASMA 108
- 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)

The above referenced Architectural Testing report states the following:

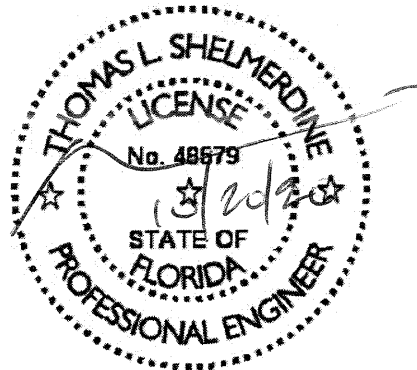
- The test was conducted in accordance with Miami Dade County Checklist #0220, ASTM D1654-08, and ASTM B117-09
- The coated steel test panels supplied by Amarr exhibited rust creepage ratings of 0, while the G-90 coated steel control samples displayed rust creepage of 6.
- The test was witnessed and certified by Joseph A. Reed, PE (FL PE #58920)

Summary:

The 16' x 8' Model 500 Classica door as described on Drawing IRC-5316-175-45 meets the testing criteria as described above. By comparison to the construction of the 16' x 8' Model 500 Classica, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-5316-175-45:

- Classica 1000 doors (which is an alternate name for the Model 500)
- Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Classica 1000 and Classica 2000 doors with widths up to 16'-0" and heights up to 8'-0"

Submitted by:



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Thomas L. Shelmerdine, PE (Florida PE #0048579)