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GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-5309-185-21-I	Model #	500	Report Date:	9/25/2023
Design Pressures:	+54.4 psf, -62 psf	Test Pressures:	+81.6 psf, -93 psf		Project No. 07-041
Test Date:	1/26-1/28/2021	Test Location:	American Test Lab, Inc., Brevard, NC		
ASCE 7-22 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
	237 mph	215 mph	204 mph	195 mph	187 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IRC-5309-185-21-I dated 01/18/2021
- American Test Lab, Inc. report number ATLNC 0126.04-21 dated 02/10/2021
 - Tests witnessed and certified by David Johnson, PE (FL PE #61915) for:
 - Static Air Pressure Test • Large Missile Impact Test • Forced Entry Test • Cyclical Test • Tensile Test

Description of Test Specimen:

A 9'-0" wide x 8'-0" high x 2" thick sectional garage door, Model # 500. All sections were made of 24 ga galvanized steel sheet. The test unit is further described on Drawing IRC-5309-185-21-I.

Test Standards and Report Conclusions:

The above referenced Test Reports state the following:

- The tests were conducted in accordance with ANSI/DASMA 108-17; ASTM E330-14; FBC TAS 201 202 203; ASTM E8 E330-14 F588-07; ANSI/DASMA 108-17 115-17
- The tests were witnessed and certified by: David Johnson, PE (FL PE #61915)
- The weight of the missile used for the Large Missile Impact Test was 9 lbs.
- The maximum cycle time noted in the report is less than the maximum permitted based on the formula:
(area of specimen -75) x (F) + 3, where F= 0.06 for sectional doors.
- All tests passed the referenced Test Standards.
- The test facility at American Test Lab, Inc. is accredited by IAS, Certification #TL-423.

Summary:

The 9'-0"x8'-0" Model # 500 door as described on drawing IRC-5309-185-21-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-0"x8'-0" Model # 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-5309-185-21-I:

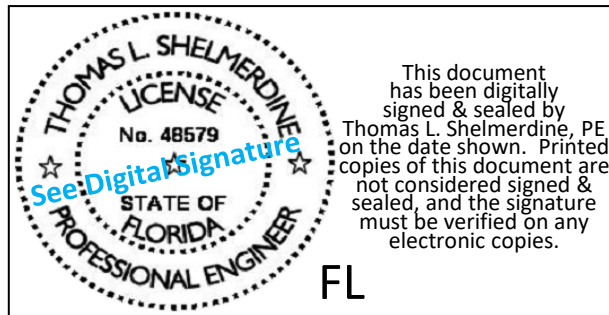
- 9' x 8' Amarr Classica 1000 doors (which is an alternate name for the Model 500)
- 9' x 8' Amarr Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Amarr Classica 1000 and Amarr Classica 2000 doors with widths of up to 9'-0" and heights of up to 14'-0"

To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 8th Edition (2023). I certify that I have no financial interest in the testing lab(s) that performed the tests, nor in Amarr Garage Doors.

Submitted By:

Thomas L
Shelmerdine

Digitally signed by Thomas L Shelmerdine
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Date: 2023.09.25 10:34:49 -04'00'



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