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GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-4216-185-26-I		Amarr	2442	Report Date:	4/9/2025
Design Pressures:	+48 psf, -54 psf		Test Pressures:	+72 psf, -81 psf		Project No. 24-089
Test Date:	12/4-12/6/2023	Test Location:		American Test Lab, Inc., Brevard, NC		
ASCE 7-22 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	
	240 mph	218 mph	207 mph	198 mph	190 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-4216-185-26-I dated 06/19/2024
- American Test Lab, Inc. report number ATLNC 1212.02-23 dated 10/08/2024
 - 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 16'-2" wide x 8'-0" high x 2" thick sectional garage door, Amarr 2442. All sections were made of 24 ga exterior / 27 ga interior galvanized steel sheet. The test unit is further described on Drawing IBC-4216-185-26-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 ; 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 9.3 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 16'-2"x8'-0" Amarr 2442 door as described on drawing IBC-4216-185-26-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2"x8'-0" Amarr 2442, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-4216-185-26-I:

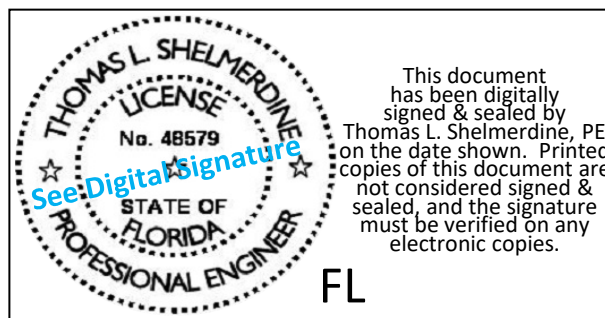
- 16'-2" x 8' Amarr 2042 doors, which have thicker 20ga steel skin
- Amarr 2442 & 2042 doors with widths up to 16'-2" and heights up to 24'-0"
- Up to 8 short-panel windows (18 1/8" x 10 5/8" x 1/4" polycarbonate) may be installed in one section.
- Up to 4 long-panel windows (38 1/16" x 10 5/8" x 1/4" polycarbonate) may be installed in one section (where available).
- Windows are not required to be installed in any section.

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
DN: c=US, o=Unaffiliated,
dnQualifier=A01410D000001938E1ECCEA
0007AC7B, cn=Thomas L Shelmerdine
Date: 2025.04.09 15:57:42 -04'00'



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