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Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1009-195-15-F		Amarr	2432		Report Date:	9/26/2023	
Design Pressures:	+55.1 psf, -64.5 psf		Test Pressures:		+82.7 psf, -96.8 psf		Project No. 17-047	
Test Date:	3/27-3/28/2017		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	
	253 mph		229 mph		218 mph		208 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-1009-195-15-F dated 06/05/2017
- American Test Lab, Inc. report number ATLNC 0327.01-17 dated 06/12/2017
 - 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'-2" wide x 8'-0" high x 2" thick sectional garage door, Amarr 2432. All sections were made of 24 ga exterior / 27 ga interior galvanized steel sheet. The test unit is further described on Drawing IBC-1009-195-15-F.

Test Standards and Report Conclusions:

The above referenced Test Reports state the following:

- The tests were conducted in accordance with ANSI/DASMA 108-05; ASTM E330-14; FBC TAS 201 202 203; ASTM E8 E330-02 E1886-05 E1996-09 F588-07; ANSI/DASMA 108-05 115-05
- 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 9'-2"x8'-0" Amarr 2432 door as described on drawing IBC-1009-195-15-F meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-2"x8'-0" Amarr 2432, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1009-195-15-F:

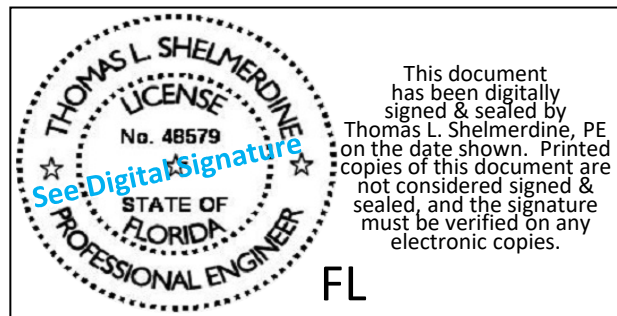
- Amarr 2432 doors with widths up to 9'-2" and heights up to 24'-0"
- 1 or 2 windows may be installed in each section (38 1/16" x 10 5/8" x 1/4" polycarbonate).
- Windows may be installed in one section, several sections, or all sections.
- Windows are not required to be installed in any section.

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=North Carolina,
dnQualifier=A01410D000001856487
A7B100125CE2, cn=Thomas L
Shelmerdine
Date: 2023.09.26 21:32:57 -04'00'



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