

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-4809-140-00		Amarr	2448	Report Date:	10/11/2024
Design Pressures:	+28.1 psf, -33 psf		Test Pressures:	+42.2 psf, -49.5 psf		Project No. 24-012
Test Date:	3/5/2024	Test Location:		Amarr, 165 Carriage Ct., Winston-Salem, 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
	181 mph	164 mph	156 mph		149 mph	143 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-4809-140-00 dated 09/09/2024
- Structural Solutions, P.A. report for IBC-4809-140-00 dated 10/11/2024
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 9'-4" wide x 8'-0" high x 1 3/4" thick sectional garage door, Amarr 2448. All sections were made of 24 ga exterior / 26 ga interior galvanized steel sheet. The test unit is further described on Drawing IBC-4809-140-00.

Test Standards and Report Conclusions:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ANSI/DASMA 108-17; ASTM E330-14
- The tests were witnessed and certified by: Thomas L. Shelmerdine, PE
- All tests passed the referenced Test Standards.
- The Amarr test facility is accredited by the American Association for Laboratory Accreditation, Cert. #2595.01.

Summary:

The 9'-4"x8'-0" Amarr 2448 door as described on drawing IBC-4809-140-00 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-4"x8'-0" Amarr 2448, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-4809-140-00:

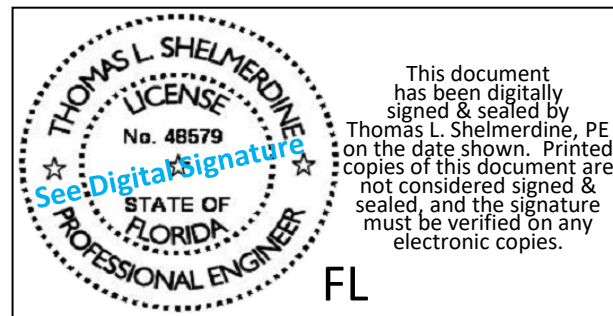
- 9'-4" x 8'-0" Amarr EOS 3134 doors, which is an alternate name for Model 2448.
- Amarr Model 2448 and Amarr EOS 3134 doors with widths up to 9'-4" and heights up to 24'-0"

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
DN: c=US, o=North Carolina,
dnQualifier=A01410D000001856487A7B1
00125CE2, cn=Thomas L Shelmerdine
Date: 2024.10.11 12:55:27 -04'00'



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Thomas L. Shelmerdine, PE (Florida PE #0048579) (dba Structural Solutions of North Carolina, Inc., Florida Firm #29412)

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