

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-4709-110-11	Amarr	2747	Report Date:	8/7/2025
Design Pressures:	+17.4 psf, -20.4 psf	Test Pressures:	+26.1 psf, -30.6 psf		Project No. 25-040
Test Date:	4/17/2025	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
	142 mph	129 mph	123 mph	117 mph	112 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-4709-110-11 dated 07/31/2025
- Structural Solutions, P.A. report for IBC-4709-110-11 dated 08/07/2025
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 9'-4" wide x 8'-0" high x 1 5/8" thick sectional garage door, Amarr 2747. All sections were made of 27 ga exterior / 30 ga interior galvanized steel sheet. The test unit is further described on Drawing IBC-4709-110-11.

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 2747 door as described on drawing IBC-4709-110-11 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-4"x8'-0" Amarr 2747, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-4709-110-11:

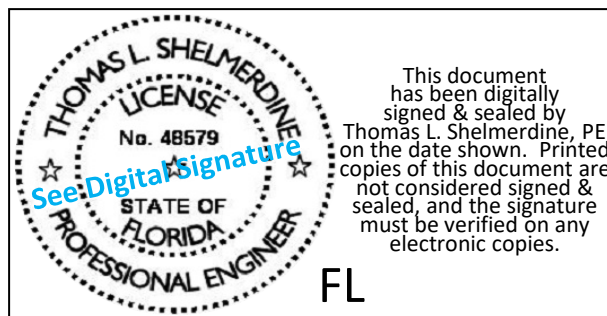
- Model 2747 doors with widths up to 9'-4" and heights up to 24'-0"
- Up to 2 short-panel windows (23-3/8" x 10 3/16" x 0.080" Plexiglas or 21-5/8" x 5 5/8" x 1/8" DSB) may be installed in one section.
- Windows are not required to be installed in any section.

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=A01410D000001938E1ECC
EA0007AC7B, cn=Thomas L
Shelmerdine
Date: 2025.08.07 14:00:50 -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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