

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-4709-104-00		Amarr	2747	Report Date:	9/19/2024	
Design Pressures:	+15.6 psf, -18.3 psf		Test Pressures:		+23.4 psf, -27.5 psf		Project No. 24-014
Test Date:	3/13/2024		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
	135 mph		122 mph		116 mph		111 mph
							106 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-4709-104-00 dated 07/08/2024
- Structural Solutions, P.A. report for IBC-4709-104-00 dated 09/19/2024
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 9'-4" wide x 8'-0" high x 1 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-4709-104-00.

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 2747 door as described on drawing IBC-4709-104-00 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-4709-104-00:

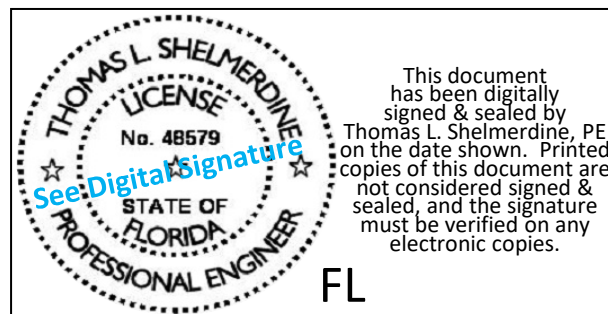
- Amarr 2747 doors with widths up to 9'-4" and heights up to 24'-0"
- Up to 2 short-panel windows (23 3/8" x 10 3/16" x 0.080" insulated Plexiglass or 21 3/8" x 5 3/8" x 1/8" insulated DSB) may be installed in one section.
- Windows are not required to be installed in any section.

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=North Carolina,
dnQualifier=A01410D000001856
487A7B100125CE2, cn=Thomas
L Shelmerdine
Date: 2024.09.19 10:35:42 -04'00'



STRUCTURAL SOLUTIONS, P.A.

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

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ www.sspa.biz ■ NC Firm #C-1096