

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-4720-133-26		Amarr	2747		Report Date:	10/5/2023			
Design Pressures:	+24 psf, -27 psf		Test Pressures:		+36 psf, -40.5 psf			Project No. 22-084		
Test Date:	11/9/2022		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	
	172 mph		156 mph		148 mph		142 mph		136 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-4720-133-26 dated 12/08/2022
- Structural Solutions, P.A. report for IBC-4720-133-26 dated 10/05/2023
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 20'-2" 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-4720-133-26.

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 20'-2"x8'-0" Amarr 2747 door as described on drawing IBC-4720-133-26 meets or exceeds the testing criteria as described above. By comparison to the construction of the 20'-2"x8'-0" Amarr 2747, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-4720-133-26:

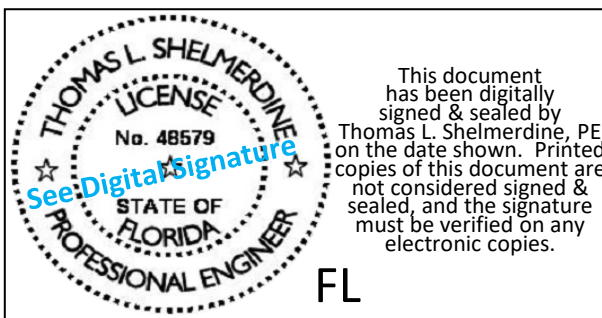
- Amarr 2747 doors with widths up to 20'-2" and heights up to 24'-0"
- Up to 6 windows may be installed in 1 section (21-3/8" x 5-3/8" x 1/8" DSB insulated glass, or 23-3/8" x 10-3/16" x 0.080" insulated plexi-glass)
- Windows are not required to be installed in any section.

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=A01410D000001856487A7B
100125CE2, cn=Thomas L Shelmerdine
Date: 2023.10.05 07:53:34 -04'00'



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