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GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1309-104-11-M		Amarr	2741	Report Date:	10/5/2023
Design Pressures:	+15.6 psf, -18.3 psf		Test Pressures:	+23.4 psf, -27.5 psf		Project No. 21-075
Test Date:	8/26/2021	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
	135 mph	122 mph	116 mph		111 mph	106 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-1309-104-11-M dated 09/08/2021
- Structural Solutions, P.A. report for IBC-1309-104-11-M dated 10/05/2023
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 9'-4" wide x 8'-0" high x 1 3/8" thick sectional garage door, Amarr 2741. All sections were made of 27 ga exterior / 27 ga interior galvanized steel sheet. The test unit is further described on Drawing IBC-1309-104-11-M.

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 2741 door as described on drawing IBC-1309-104-11-M meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-4"x8'-0" Amarr 2741, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1309-104-11-M:

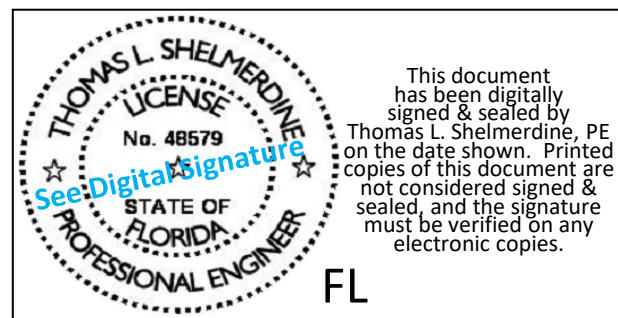
- 9'-4" x 8' Amarr 2742 doors (which are 2" thick in lieu of 1-3/8" thick)
- 9'-4" x 8' Amarr 2042 doors (which are 2" thick in lieu of 1-3/8" thick and have thicker 20ga exterior skin in lieu of 27ga steel)
- 9'-4" x 8' Amarr 2442 doors (which are 2" thick in lieu of 1-3/8" thick and have thicker 24ga exterior skin in lieu of 27ga steel)
- Amarr # 2741, 2742, 2042 and 2442 doors with widths up to 9'-4" and heights up to 24'-0"
- Up to 2 windows may be installed in one or multiple sections (3-1/4" x 21-3/8" x 0.080 insulated plexiglass, or 10-3/16" x 23-3/8" x 0.080 insulated plexiglass, or 9-5/8" x 21-5/8" x 1/8" insulated DSB)
- 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=A01410D00000185648
7A7B100125CE2, cn=Thomas L
Shelmerdine
Date: 2023.10.05 10:23:33 -04'00'



STRUCTURAL SOLUTIONS, P.A.

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