

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1216-140-24		Model #	1200		Report Date:	9/12/2024	
Design Pressures:	+29.7 psf, -33.8 psf		Test Pressures:		+44.6 psf, -50.7 psf		Project No. 12-075	
Test Date:	7/15/2021		Test Location:		Amarr, 165 Carriage Ct., Winston-Salem, NC			
ASCE 7-22 Criteria:	Up to 5 Feet of Door Width in Zone 5; Any Roof Slope; Enclosed Building							
	Exp. B, 30' MRH		Exp. C, 15' MRH		Exp. C, 25' MRH		Exp. D, 15' MRH	
	181 mph		164 mph		156 mph		149 mph	
							143 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IRC-1216-140-24 dated 03/09/2022
- Structural Solutions, P.A. report for IRC-1216-140-24 dated 09/12/2024
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 16'-0" wide x 7'-0" high x 2" thick sectional garage door, Model # 1200. All sections were made of 24 ga exterior / 27 ga interior galvanized steel sheet. The test unit is further described on Drawing IRC-1216-140-24.

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 16'-0"x7'-0" Model # 1200 door as described on drawing IRC-1216-140-24 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-0"x7'-0" Model # 1200, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-1216-140-24:

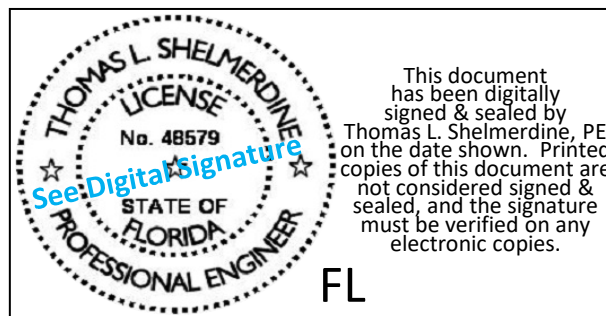
- 16' x 7' Model 1225 doors (which is an alternate finish on the skin)
- 16' x 7' Amarr Heritage 3000 & Amarr Northwoods 3000 doors (which are alternate model numbers for Models 1200 & 1225)
- Model 1200, 1225, Amarr Heritage 3000 & Amarr Northwoods 3000 doors with widths up to 16'-0" and heights up to 14'-0"
- Up to 4 long-panel windows (38-1/16" x 10-5/8" x 1/4" polycarbonate) or 8 short-panel windows (18-1/8" x 10-5/8" x 1/4" polycarbonate) 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=A01410D000001856487A7B1
00125CE2, cn=Thomas L Shelmerdine
Date: 2024.09.12 12:46:45 -04'00'



STRUCTURAL SOLUTIONS, P.A.

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

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