

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1216-130-15-M	Model #	1200	Report Date:	2/8/2022
Design Pressures:	+25.6 psf, -29.1 psf	Test Pressures:	+38.4 psf, -43.6 psf	Project No. 17-081	
Test Date:	7/22/2021	Test Location:	Amarr, 165 Carriage Ct., Winston-Salem, NC		
ASCE 7-16 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	Exp. D, 25' MRH
	168 mph	152 mph	145 mph	138 mph	133 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IRC-1216-130-15-M dated 11/11/2021
- Structural Solutions, P.A. report for IRC-1216-130-15-M dated 02/08/2022
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

16'-0"x7'-0" Model 1200, 24 ga exterior / 27 ga interior steel garage door as shown in drawing IRC-1216-130-15-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 16'-0"x7'-0" Model 1200 as described on drawing IRC-1216-130-15-M 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-1216-130-15-M:

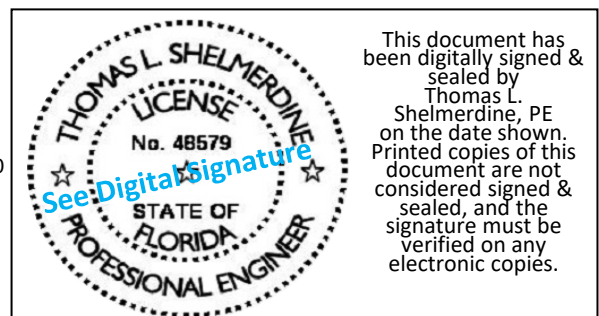
- 16' x 7' Amarr Heritage 3000 doors (which is an alternate model number for Model 1200)
- 16' x 7' Amarr Oak Summit 3000 doors (which is an alternate embossment pattern)
- Model 1200, Amarr Heritage 3000, and Amarr Oak Summit 3000 doors with widths up to 16'-0" and heights up to 14'-0"
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Up to 4 long-panel windows (38-1/2" x 11" x 3/32" SSB) or 8 short-panel windows (18-1/2" x 11" x 3/32" SSB) may be installed in each 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 7th Edition (2020). I certify that I have no financial interest in the testing lab(s) that performed the tests, nor in Entrematic, nor in Amarr Garage Doors.

Submitted By:

Thomas L
Shelmerdine

Digitally signed by Thomas L Shelmerdine
DN: c=US, o=North Carolina,
dnQualifier=A01410D0000017E7DCF965F0
002DE45, cn=Thomas L Shelmerdine
Date: 2022.02.08 17:10:19 -05'00'



This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

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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