

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-3416-140-15		Amarr	EOS 3134		Report Date:	8/8/2025			
Design Pressures:	+27 psf, -30.5 psf		Test Pressures:		+40.5 psf, -45.8 psf			Project No. 25-055		
Test Date:	6/12/2025		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	
	181 mph		164 mph		156 mph		149 mph		143 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-3416-140-15 dated 07/31/2025
- Structural Solutions, P.A. report for IBC-3416-140-15 dated 08/08/2025
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 16'-2" wide x 8'-0" high x 1 3/4" thick sectional garage door, Amarr EOS 3134. All sections were made of 24 ga exterior / 26 ga interior galvanized steel sheet. The test unit is further described on Drawing IBC-3416-140-15.

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'-2"x8'-0" Amarr EOS 3134 door as described on drawing IBC-3416-140-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2"x8'-0" Amarr EOS 3134, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-3416-140-15:

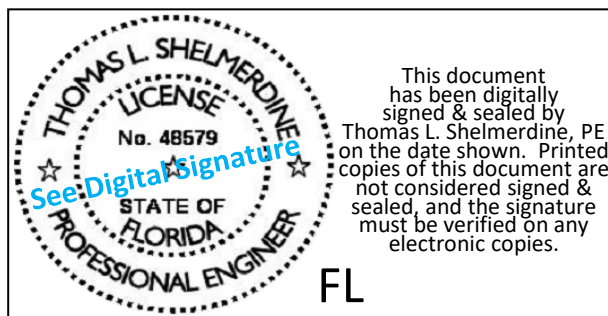
- Amarr EOS 3134 doors with widths up to 16'-2" and heights up to 24'-0"
- Up to 4 windows (37-7/8" x 4" x 1/8" DSB glass may be installed in one section, multiple sections, or all sections.
- Windows are not required to be installed in any section.

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=Unaffiliated,
dnQualifier=A01410D000001938E1ECCE
A0007AC7B, cn=Thomas L Shelmerdine
Date: 2025.08.08 11:29:06 -04'00'



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

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