

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-3816-120-63	Amarr	3582	Report Date:	10/6/2023
Design Pressures:	+21.8 psf, -24.8 psf	Test Pressures:	+32.7 psf, -37.2 psf		Project No. 21-064
Test Date:	7/29/2021	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
	163 mph	147 mph	140 mph	134 mph	128 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-3816-120-63 dated 08/06/2021
- Structural Solutions, P.A. report for IBC-3816-120-63 dated 10/06/2023
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 16'-2" wide x 8'-0" high x 2" thick sectional garage door, Amarr 3582. All sections were made of 0.05 in. aluminum. The test unit is further described on Drawing IBC-3816-120-63.

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 3582 door as described on drawing IBC-3816-120-63 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2"x8'-0" Amarr 3582, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-3816-120-63:

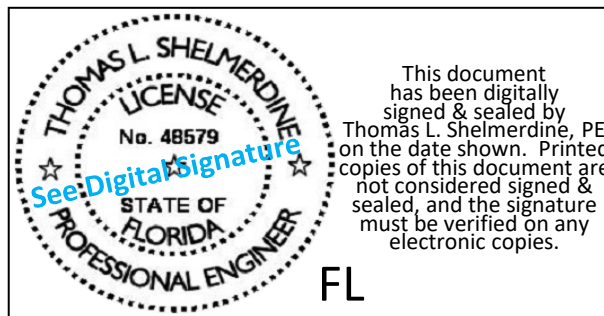
- 16'-2" x 8'-0" Amarr Horizon doors, which is an alternate model number
- Amarr 3582 and Amarr Horizon doors with widths up to 16'-2" and heights up to 24'-0"
- Each section has four 3/16" tempered windows.

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=A01410D00000185
6487A7B100125CE2,
cn=Thomas L Shelmerdine
Date: 2023.10.06 08:35:13 -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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