

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-5318-110-24		Model #	500		Report Date:	9/25/2023			
Design Pressures:	+18.2 psf, -20.6 psf		Test Pressures:		+27.3 psf, -30.9 psf		Project No. 15-039			
Test Date:	6/2/2020		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		Exp. D, 25' MRH	
	143 mph		130 mph		123 mph		118 mph		113 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IRC-5318-110-24 dated 07/06/2020
- Structural Solutions, P.A. report for IRC-5318-110-24 dated 09/25/2023
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 18'-0" wide x 8'-0" high x 2" thick sectional garage door, Model # 500. All sections were made of 24 ga galvanized steel sheet. The test unit is further described on Drawing IRC-5318-110-24.

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 18'-0"x8'-0" Model # 500 door as described on drawing IRC-5318-110-24 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x8'-0" Model # 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-5318-110-24:

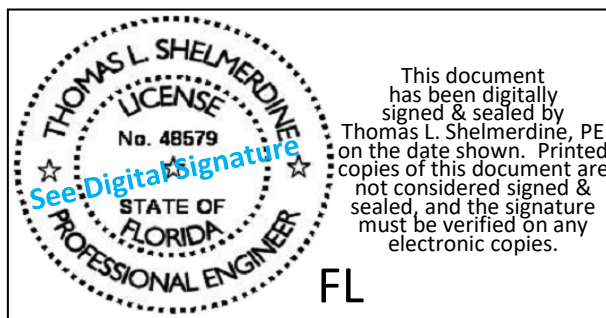
- 18' x 8' Amarr Classica 1000 doors (which is an alternate name for the Model 500)
- 18' x 8' Amarr Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Amarr Classica 1000 and Amarr Classica 2000 doors with widths of up to 18'-0" and heights of up to 14'-0"
- 4 windows may be installed in 1 section (39.054" x 21.625" x 1/8" tempered glass - meets ASTM E1300-04)
- 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=A01410D000001856487
A7B100125CE2, cn=Thomas L
Shelmerdine
Date: 2023.09.25 14:04:16 -04'00'



STRUCTURAL SOLUTIONS, P.A.

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