

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6218-145-26		Model #	625		Report Date:	9/22/2023			
Design Pressures:	+31.6 psf, -35.7 psf		Test Pressures:	+47.4 psf, -53.6 psf			Project No. 19-025			
Test Date:	3/12/2019		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	
	187 mph		170 mph		162 mph		154 mph		148 mph	

Reference Drawing and Test Report(s):

- Amarr Drawing number IRC-6218-145-26 dated 03/15/2019
- Structural Solutions, P.A. report for IRC-6218-145-26 dated 09/22/2023
 - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

Description of Test Specimen:

A 18'-0" wide x 7'-0" high x 2" thick sectional garage door, Model # 625. All sections were made of 25 ga galvanized steel sheet. The test unit is further described on Drawing IRC-6218-145-26.

Test Standards and Report Conclusions:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ANSI/DASMA 108-12; ASTM E330-02
- 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"x7'-0" Model # 625 door as described on drawing IRC-6218-145-26 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model # 625, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-6218-145-26:

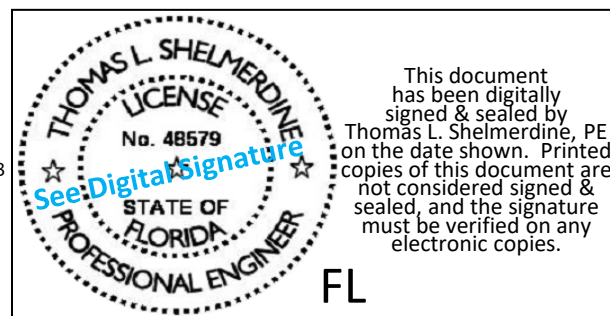
- 18' x 7' Model 675 doors, which have alternate embossment patterns in the skin
- 18' x 7' Model 950 doors, which have thicker 24ga steel skin
- 18' x 7' Amarr Lincoln 1000, Hillcrest 1000, & Heritage 1000 doors (which are alternate names for Models 625, 675 & 950)
- 18' x 7' Amarr Lincoln 1500 & 2000, Hillcrest 1500 & 2000, and Heritage 1500 & 2000 doors (which are Models 625, 675 & 950 with insulation)
- Model 625, 675, 950, Amarr Lincoln, Hillcrest & Heritage 1000, 1500 & 2000 doors, with widths up to 18'-0" and heights up to 14'-0"
- 8 short-panel windows (18-1/2" x 11" x 3/32" SSB glass) 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=A01410D000001856487A7B
100125CE2, cn=Thomas L Shelmerdine
Date: 2023.09.22 15:43:51 -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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