

STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6218-120-17-L	Model #	625	Report Date:	9/22/2023
Design Pressures:	+21.6 psf, -24.5 psf	Test Pressures:	+32.4 psf, -36.8 psf		Project No. 21-022
Test Date:	5/11/2021	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
	155 mph	141 mph	134 mph	128 mph	122 mph

Reference Drawing and Test Report(s):

- Amarr Drawing number IRC-6218-120-17-L dated 05/12/2021
- Structural Solutions, P.A. report for IRC-6218-120-17-L 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-6218-120-17-L.

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"x7'-0" Model # 625 door as described on drawing IRC-6218-120-17-L 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-6218-120-17-L:

- 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"
- Short-panel windows (18-1/2" x 11") or long-panel windows (38-1/2" x 11") using 3/32" SSB glass (meets ASTM E1300-04) may be installed as follows:
 - A vertical row of long-panel glass may be installed in one end or both ends of the door, OR
 - A vertical row of short-panel glass may be installed in one end or both ends of the door, OR
 - Two vertical rows of short-panel glass may be installed in one end or both ends of the door, OR
 - A horizontal row of long-panel glass may be installed in the top section.
- Windows are not required to be installed in any section.

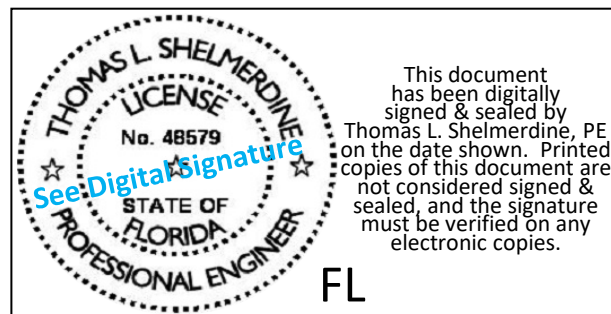
To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 8th Edition (2023).

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=A01410D000001856487A7
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Date: 2023.09.22 15:12:59 -04'00'



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