

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6218-145-26		Test Date:	3/12/2019		Project No.:	19-025			
Design Pressures:	+31.6 psf, -35.7 psf		Report Date:	10/13/2020		Model #	625			
Test Pressures:	+47.4 psf, -53.6 psf		Test Location:	Entrematic, Winston-Salem, NC						
ASCE 7-16 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 Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-6218-145-26 dated 10/13/2020
- Entrematic Drawing number IRC-6218-145-26 dated 5/21/2019

Description of Test Specimen:

18'-0"x7'-0" Model 625, 25 ga steel garage door as shown in drawing IRC-6218-145-26.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-14 and DASMA 108-12.
- The test was witnessed and certified by Thomas L. Shelmerdine, PE (FL PE# 48579)
- The test facility at Entrematic is accredited by the American Association for Laboratory Accreditation, Certificate #2595.01.

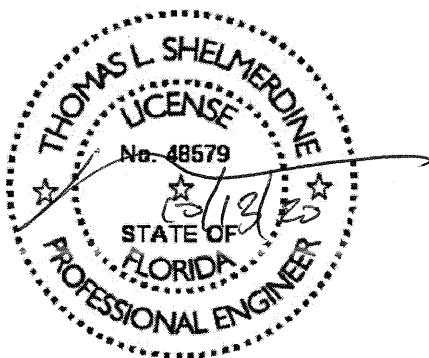
Summary:

The 18'-0"x7'-0" Model 625 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'-0" x 7' Model 675 doors, which have alternate embossment patterns in the skin
- 18'-0" x 7' Amarr Lincoln 1000 and Amarr Hillcrest 1000 doors (which are alternate names for Models 625 & 675)
- 18'-0" x 7' Amarr Lincoln 1500 & 2000 and Amarr Hillcrest 1500 & 2000 doors (which are Models 625 & 675 with insulation)
- Model 625, 675, Amarr Lincoln & Amarr Hillcrest 1000, 1500 & 200 doors, with widths up to 18'-0" and heights up to 14'-0"
- 8 windows may be installed in 1 section (18-1/2" x 11" x 3/32" SSB glass - meets ASTM E1300-04)

To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 7th Edition (2020).

Submitted By:



STRUCTURAL SOLUTIONS, P.A.* (*Florida: dba Structural Solutions of North Carolina, Inc., Firm #29412)

Thomas L. Shelmerdine, PE (NC PE #14654; Florida PE #0048579)

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