

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1609-100-11		Test Date:	10/25/2018		Project No.:	18-126			
Design Pressures:	+15.8 psf, -18.7 psf		Report Date:	10/13/2020		Model #	1600			
Test Pressures:	+23.7 psf, -28 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	
	129 mph		117 mph		111 mph		106 mph		102 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-1609-100-11 dated 10/13/2020
- Entrematic Drawing number IRC-1609-100-11 dated 3/19/2018

Description of Test Specimen:

9'-0"x7'-0" Model 1600, 27 ga steel garage door as shown in drawing IRC-1609-100-11.

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.

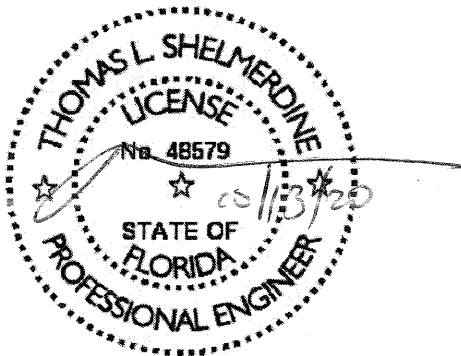
Summary:

The 9'-0"x7'-0" Model 1600 as described on drawing IRC-1609-100-11 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-0"x7'-0" Model 1600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-1609-100-11:

- 9' x 7' Model 1650 doors (which have alternate embossment patterns in the skin)
- Model 1600 and 1650 doors with widths up to 9'-0" and heights up to 14'-0"
- Amarr Lincoln 3000 and Amarr Hillcrest 3000 doors (which are alternate names for Models 1600 and 1650 respectively)
- 4 short panel windows (18-1/2" x 11" x 3/32" SSB glass) or 2 long panel windows (38-1/2" x 11" x 3/32" SSB glass) may be installed in 1 section - 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)

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ www.sspa.biz ■ NC Firm #C-1096