

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1216-140-24		Test Date:		8/13/2012	Project No.:		12-075	
Design Pressures:	+29.7 psf, -33.8 psf		Report Date:		11/3/2020		Model #	1200	
Test Pressures:	+44.6 psf, -50.7 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
	181 mph		164 mph		156 mph		149 mph		143 mph

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-1216-140-24 dated 11/03/2020
- Entrematic Drawing number IRC-1216-140-24 dated 8/13/2012

Description of Test Specimen:

16'-0"x7'-0" Model 1200, 24 ga exterior/27 ga interior steel garage door as shown in drawing IRC-1216-140-24.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330 and DASMA 108.
- 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.

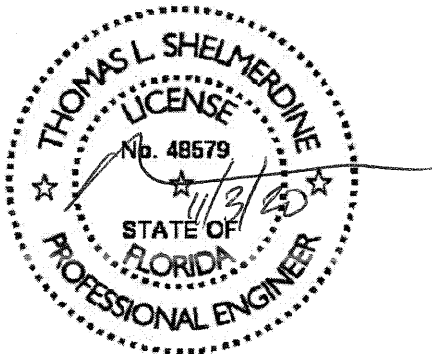
Summary:

The 16'-0"x7'-0" Model 1200 as described on drawing IRC-1216-140-24 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-0"x7'-0" Model 1200, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-1216-140-24:

- 16' x 7' Model 1550 doors, which have an alternate embossment pattern in the skin
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Heritage 3000 doors (which are Model 1200), and Oak Summit 3000 doors (which are Model 1550)
- Model 1200 and Model 1550 doors up to 16'-0" wide and up to 14'-0" high

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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