

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-1809-136-15	Test Date:	11/4/2014	Project No.:	14-127
Design Pressures:	+26.4 psf, -31.1 psf	Report Date:	11/2/2020	Model #	1380
Test Pressures:	+39.6 psf, -46.7 psf	Test Location:	Entrematic, Winston-Salem, NC		
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Roof Slope ≤ 10°; Enclosed Building				
	Exp. B, 30' MRH	Exp. C, 15' MRH	Exp. C, 25' MRH	Exp. D, 15' MRH	Exp. D, 25' MRH
	175 mph	159 mph	151 mph	144 mph	138 mph

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-1809-136-15 dated 11/02/2020
- Entrematic Drawing number IRC-1809-136-15 dated 11/25/2014

Description of Test Specimen:

9'-2"x8'-0" Model 1380, 27 ga steel garage door as shown in drawing IRC-1809-136-15.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-14 and DASTMA 108-05.
- 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.

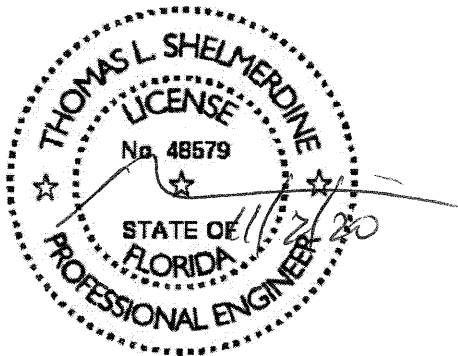
Summary:

The 9'-2"x8'-0" Model 1380 as described on drawing IRC-1809-136-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-2"x8'-0" Model 1380, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-1809-136-15:

- Model 1380 doors with widths up to 9'-2" and heights up to 14'-0"
- 2 windows may be installed in 1 section, either 38 1/8" x 10 5/8" x 3/32" SSB glass (meets ASTM E1300-04), or 21 3/8" x 3 1/4" x 0.080" plexi-glass (2 layers with aluminum spacer)

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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