

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-5318-100-24		Test Date:	8/29/2017	Project No.:	17-073
Design Pressures:	+15 psf, -17 psf		Report Date:	10/28/2020	Model #	500
Test Pressures:	+22.5 psf, -25.5 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	
	130 mph	118 mph	112 mph	107 mph	103 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-5318-100-24 dated 10/28/2020
- Entrematic Drawing number IRC-5318-100-24 dated 11/1/2017

Description of Test Specimen:

18'-0"x8'-0" Model 500, 24 ga steel garage door as shown in drawing IRC-5318-100-24.

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.

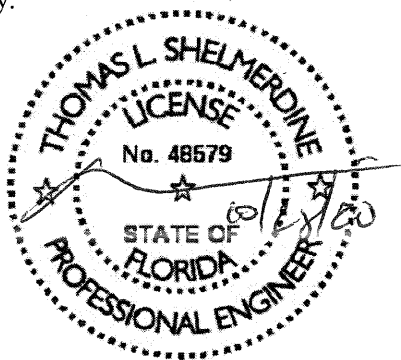
Summary:

The 18'-0"x8'-0" Model 500 as described on drawing IRC-5318-100-24 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x8'-0" Model 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-5318-100-24:

- 18' x 8' Classica 1000 doors (which is an alternate name for the Model 500)
- 18' x 8' Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Classica 1000 and Classica 2000 doors with widths up to 18'-0" and heights up to 14'-0"
- 4 windows (1/8" x 39" x 21-5/8" tempered glass minimum - meets ASTM E1300-04) may be installed in 1 section

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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