

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-5309-110-15		Test Date:	8/31/2015		Project No.:	15-096			
Design Pressures:	+19 psf, -22.3 psf		Report Date:	10/29/2020		Model #	500			
Test Pressures:	+28.5 psf, -33.5 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	
	142 mph		129 mph		122 mph		117 mph		112 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-5309-110-15 dated 10/29/2020
- Entrematic Drawing number IRC-5309-110-15 dated 10/21/2015

Description of Test Specimen:

9'-0"x8'-0" Model 500, 24 ga steel garage door as shown in drawing IRC-5309-110-15.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-14 and DASMA 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.

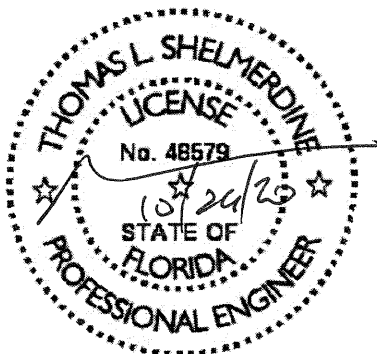
Summary:

The 9'-0"x8'-0" Model 500 as described on drawing IRC-5309-110-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-0"x8'-0" Model 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-5309-110-15:

- Amarr Classica 1000 doors (which is an alternate name for the Model 500)
- Amarr Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Amarr Classica 1000 and Amarr Classica 2000 doors with widths up to 9'-0" and heights up to 14'-0"
- 2 short panel 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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