

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-C516-110-15	Test Date:	8/20/2015	Project No.:	15-092
Design Pressures:	+18.3 psf, -20.8 psf	Report Date:	10/30/2020	Model #	C500
Test Pressures:	+27.5 psf, -31.2 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-C516-110-15 dated 10/30/2020
- Entrematic Drawing number IRC-C516-110-15 dated 10/20/2015

Description of Test Specimen:

16'-0"x7'-0" Model C500, 27 ga steel garage door as shown in drawing IRC-C516-110-15.

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.

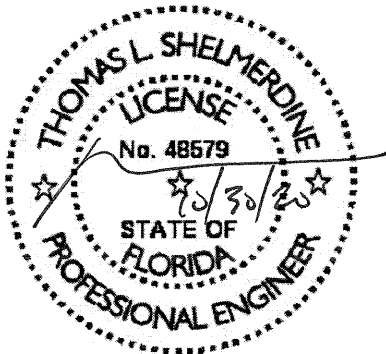
Summary:

The 16'-0"x7'-0" Model C500 as described on drawing IRC-C516-110-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-0"x7'-0" Model C500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-C516-110-15:

- 16' x 7' Amarr Olympus doors, which is an alternate model name
- Model C500 and Amarr Olympus doors with widths up to 16'-0" and heights up to 14'-0"
- 8 short panel (18-1/8" x 10-5/8") or 4 long panel (38-1/8" x 10-5/8") windows (3/32" SSB glass) 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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