

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-C518-110-15		Test Date:	8/31/2015		Project No.:	15-095			
Design Pressures:	+18.2 psf, -20.6 psf		Report Date:	10/30/2020		Model #	C500			
Test Pressures:	+27.3 psf, -30.9 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		123 mph		117 mph		112 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-C518-110-15 dated 10/30/2020
- Entrematic Drawing number IRC-C518-110-15 dated 10/19/2015

Description of Test Specimen:

18'-0"x7'-0" Model C500, 27 ga steel garage door as shown in drawing IRC-C518-110-15.

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.

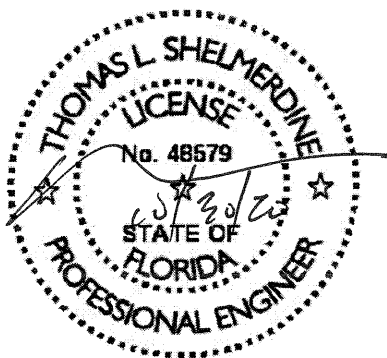
Summary:

The 18'-0"x7'-0" Model C500 as described on drawing IRC-C518-110-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model C500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-C518-110-15:

- 18' x 7' Amarr Olympus doors, which is an alternate model name
- Model C500 and Amarr Olympus doors with widths up to 18'-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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