

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-C516-130-15		Test Date:	6/8/2017		Project No.:	17-045			
Design Pressures:	+25.6 psf, -29.1 psf		Report Date:	10/28/2020		Model #	C500			
Test Pressures:	+38.4 psf, -43.6 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	
	168 mph		152 mph		145 mph		138 mph		133 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-C516-130-15 dated 10/28/2020
- Entrematic Drawing number IRC-C516-130-15 dated 8/3/2017

Description of Test Specimen:

16'-0"x7'-0" Model C500, 27ga steel garage door as shown in drawing IRC-C516-130-15.

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.

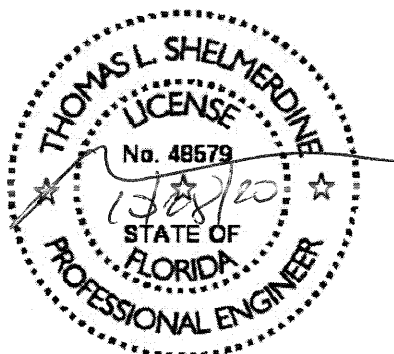
Summary:

The 16'-0"x7'-0" Model C500 as described on drawing IRC-C516-130-15 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-C516-130-15:

- 16' x 7' Amarr Olympus 3200 doors, which is an alternate model name
- 16' x 7' Amarr Designers Choice 3200 doors, which has alternate embossment patterns in the skin
- Model C500, Amarr Olympus 3200, and Amarr Designers Choice 3200 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)

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