

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-P509-130-11	Test Date:	11/9/2017	Project No.:	17-087
Design Pressures:	+26.7 psf, -31.6 psf	Report Date:	10/28/2020	Model #	P500
Test Pressures:	+40.1 psf, -47.4 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-P509-130-11 dated 10/28/2020
- Entrematic Drawing number IRC-P509-130-11 dated 12/6/2017

Description of Test Specimen:

9'-0"x7'-0" Model P500, 27 ga steel garage door as shown in drawing IRC-P509-130-11.

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.

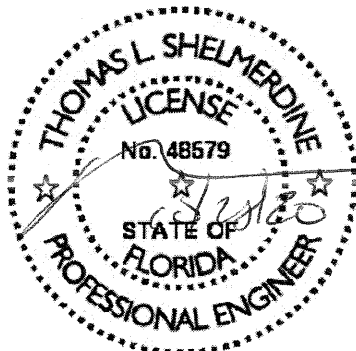
Summary:

The 9'-0"x7'-0" Model P500 as described on drawing IRC-P509-130-11 meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-0"x7'-0" Model P500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-P509-130-11:

- 9'-0"x7'-0" Model D500 doors (which have a different embossment pattern)
- 9'-0"x7'-0" Amarr Olympus 500 & Amarr Designer's Choice DC-500 doors, which are alternate model numbers
- Model P500, Model D500, Amarr Olympus 500, & Amarr Designer's Choice DC-500 doors with widths of up to 9'-0" and heights of up to 14'-0"
- 4 short panel (18-1/8" x 10-5/8") or 2 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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