

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-P509-120-11		Test Date:	6/23/2016		Project No.:	16-053			
Design Pressures:	+22.8 psf, -26.9 psf		Report Date:	10/29/2020		Model #	P500			
Test Pressures:	+34.2 psf, -40.4 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	
	155 mph		141 mph		134 mph		128 mph		122 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-P509-120-11 dated 10/29/2020
- Entrematic Drawing number IRC-P509-120-11 dated 8/1/2016

Description of Test Specimen:

9'-0"x7'-0" Model P500, 27 ga steel garage door as shown in drawing IRC-P509-120-11.

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 108-05.
- 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.

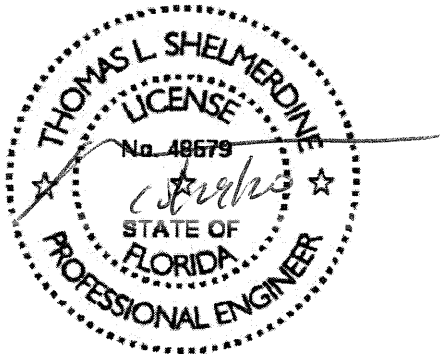
Summary:

The 9'-0"x7'-0" Model P500 as described on drawing IRC-P509-120-11 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-P509-120-11:

- 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)

Thomas L. Shelmerdine, PE (NC PE #14654; Florida PE #0048579)

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ www.sspa.biz ■ NC Firm #C-1096