

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-P518-155-26-I		Test Date:	9/12-9/14/2018		Project No.:	12-014			
Design Pressures:	+37 psf, -40.6 psf		Report Date:	10/29/2020		Model #	P500			
Test Pressures:	+55.5 psf, -60.9 psf		Test Location:	American Test Lab, Inc., Brevard, 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	
	200 mph		181 mph		172 mph		165 mph		158 mph	

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0912.02-17 dated 2/13/2018
- Entrematic Drawing number IRC-P518-155-26-I dated 2/6/2018

Description of Test Specimen:

18'-0"x7'-0" Model P500, 27 ga steel garage door as shown in drawing IRC-P518-155-26-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E1886-05, E1996-09, F588-07; and ANSI / DASMA 115-2012.
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- All tests were conducted with no deviations.
- The test was witnessed and certified by David Johnson, PE, 1656 Calvert Road, Brevard, NC (FL PE #00061915)
- American Test Lab is accredited by IAS, Certification #TL-423.

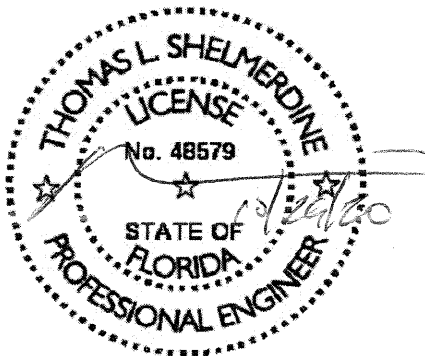
Summary:

The 18'-0"x7'-0" Model P500 as described on drawing IRC-P518-155-26-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model P500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-P518-155-26-I:

- 18' x 7' Model D500 doors (which have a different embossment pattern).
- 18' x 7' Amarr Olympus 500 and Amarr Designers Choice DC-500 doors, which are alternate model numbers for P500 and D500.
- Model P500, D500, Olympus 500 and Designers Choice DC-500 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") 1/4" polycarbonate windows 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:



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