

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

Garage Door No.:	IRC-P518-130-24-I		Test Date:	4/4-4/7/2011		Project No.:	11-027			
Design Pressures:	+25.4 psf, -28.7 psf		Report Date:	10/22/2020						
Test Pressures:	+38.1 psf, -43.1 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	
	168 mph		152 mph		145 mph		138 mph		133 mph	

Reference Test Report and Drawing:

American Test Lab, Inc. report number ATLNC-0404.02-11 dated 05/05/2011

Amarr Garage Doors drawing number IRC-P518-130-24-I dated 4/18/2011

Description of Test Specimen:

Amarr Garage Door 18' x 7' 24/27 ga steel garage door Model #P500 as shown in drawing IRC-P518-130-24-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

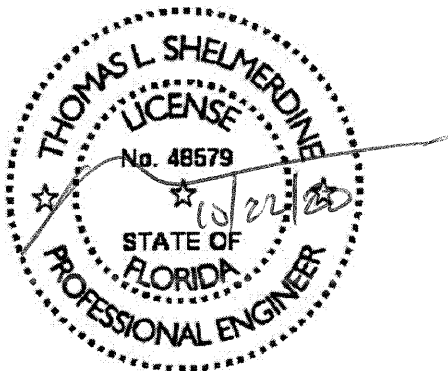
- The test was conducted in accordance with ASTM E330, E1996, and ANSI / DASMA 108, 115
- The door was operable before and after test
- The test was witnessed and certified by David Johnson, P.E. of Brevard, NC (FL PE #00061915)

Summary:

The 18' x 7' Model P500 door as described on Drawing IRC-P518-130-24-I meets the testing criteria as described above. By comparison to the construction of the 18' x 7' Model P500, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-P518-130-24-I:

- Model D500 doors (which have a different embossment pattern)
- Olympus and Designers Choice Panels, which are alternate embossment patterns in the skin
- Model P500 and D500 doors with widths of up to 18'-0" and heights of up to 14'-0".

Submitted by:



STRUCTURAL SOLUTIONS, P.A.

Thomas L. Shelmerdine, PE (Florida PE #0048579)