

# STRUCTURAL SOLUTIONS, P.A. \*

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

|                        |                                                                         |                 |                 |                                      |                 |        |
|------------------------|-------------------------------------------------------------------------|-----------------|-----------------|--------------------------------------|-----------------|--------|
| Garage Door No.:       | IRC-1518-155-45                                                         |                 | Test Date:      | 12/20/2006                           | Project No.:    | 07-017 |
| Design Pressures:      | +37.0 psf, -40.6 psf                                                    |                 | Report Date:    | 11/12/2020                           |                 |        |
| Test Pressures:        | +55.5 psf, -61.0 psf                                                    |                 | Test Location:  | American Test Lab, Inc., Brevard, NC |                 |        |
| ASCE 7-16<br>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-1220.01-06 dated 02/21/07

Amarr Garage Doors drawing number IRC-1518-155-45 dated 11/08/06

### Description of Test Specimen:

Amarr Garage Door 18' x 8' 27 ga steel garage door Model # 1500 Stratford 3000 as shown in drawing IRC-1518-155-45.

### Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E-330, and ANSI / DASMA 108
- 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)

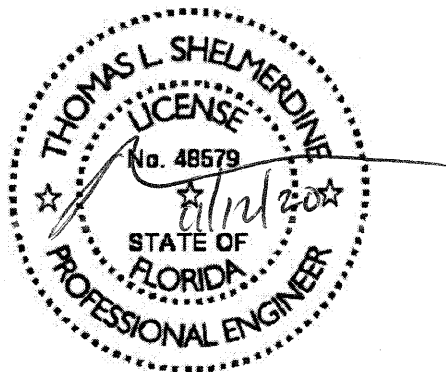
### Summary:

The 18' x 8' Model 1500 Stratford 3000 door as described on Drawing IRC-1518-155-45 meets the testing criteria as described above. By comparison to the construction of the 18' x 8' Model 1500 Stratford 3000, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-1518-155-45:

- Model 1200 doors, which are 2" thick and have thicker 24 ga exterior skin
- Model 1550 doors, which have the "Oak Summit" embossment pattern in the skin
- Heritage 3000 doors (which are Model 1200); Stratford 3000 doors (which are Model 1500), and Oak Summit 3000 doors (which are Model 1550)
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Model 1200, 1500, 1550, Heritage 3000, Stratford 3000, and Oak Summit 3000 doors with widths of up to 18' and heights of up to 8'.

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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