

# STRUCTURAL SOLUTIONS, P.A.\*

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR STATIC PRESSURE EVALUATION REPORT

|                        |                                                                         |  |                 |                                      |                 |              |                    |  |                 |  |
|------------------------|-------------------------------------------------------------------------|--|-----------------|--------------------------------------|-----------------|--------------|--------------------|--|-----------------|--|
| Garage Door No.:       | IRC-1218-155-26-I                                                       |  | Test Date:      | 8/4-8/27/2014                        |                 | Project No.: | 14-060             |  |                 |  |
| Design Pressures:      | +37 psf, -40.7 psf                                                      |  | Report Date:    | 11/2/2020                            |                 | Model #      | 1200 Heritage 3000 |  |                 |  |
| Test Pressures:        | +55.5 psf, -60.9 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-0804.01-14 dated 8/27/2014
- Amarr drawing number IRC-1218-155-26-I dated 6/12/2014

### Description of Test Specimen:

18'-0"x7'-0" Amarr Model 1200 Heritage 3000, 24 ga steel garage door as shown in drawing IRC-1218-155-26-I.

### Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-02, E1886-05, E1996-09, F588-07; and ANSI / DASMA 108-05, 115-2005.
- 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.

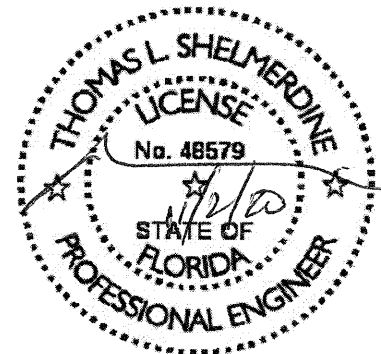
### Summary:

The 18'-0"x7'-0" Model 1200 Heritage 3000 door as described on Drawing IRC-1218-155-26-I meets the testing criteria as described above. By comparison to the construction of the 18'-0"x7'-0" Model 1200 Heritage 3000, the following doors also meet the above testing criteria, when constructed in accordance with Drawing IRC-1218-155-26-I:

- 18' x 7' Model 1200 Oak Summit 3000 doors, which have an alternate embossment pattern in the skin
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin
- Model 1200 doors up to 18'-0" wide and up to 14'-0" high
- 8 short panel windows (18-1/8" x 10-5/8" x 5/16" annealed laminated glass with 0.090" PVB interlayer - meets ASTM E1300-04) or 4 long panel windows (38-1/16" x 10-5/8" x 1/4" polycarbonate) 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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