

# STRUCTURAL SOLUTIONS, P.A. \*

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR EVALUATION REPORT

|                        |                                                                           |                 |                 |                                  |                 |        |
|------------------------|---------------------------------------------------------------------------|-----------------|-----------------|----------------------------------|-----------------|--------|
| Garage Door No.:       | IBC-1016-130-15                                                           |                 | Test Date:      | 6/21/2011                        | Project No.:    | 11-033 |
| Design Pressures:      | +23.3 psf, -26.3 psf                                                      |                 | Report Date:    | 10/26/2020                       |                 |        |
| Test Pressures:        | +34.95 psf, -39.45 psf                                                    |                 | Test Location:  | Amarr Garage Doors Test Facility |                 |        |
| ASCE 7-16<br>Criteria: | Up to 5 Feet of Door Width in Zone 5; Roof Slope ≤ 10°; Enclosed Building |                 |                 |                                  |                 |        |
|                        | Exp. B, 30' MRH                                                           | Exp. C, 15' MRH | Exp. C, 25' MRH | Exp. D, 15' MRH                  | Exp. D, 25' MRH |        |
|                        | 167 mph                                                                   | 151 mph         | 144 mph         | 138 mph                          | 132 mph         |        |

### Reference Test Report and Drawing:

- Structural Solutions, P.A.\* Garage Door Static Pressure Test Report for IBC-1016-130-15 dated 10/26/2020.
- Entrematic Drawing number IBC-1016-130-15 dated 6/28/2011.

### Description of Test Specimen:

16'-2" x 8' 24/27 ga steel garage door Model #1000 as shown in drawing IBC-1016-130-15.

### Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E330
- The door was operable before and after test
- 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.

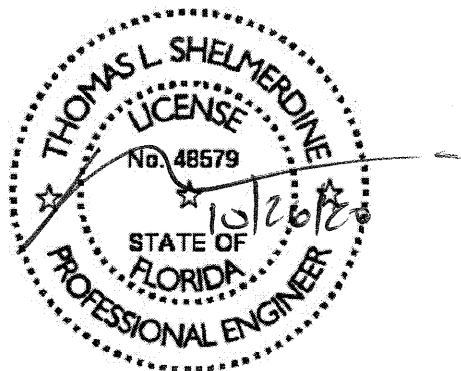
### Summary:

The 16'-2" x 8' Model 1000 as described on Drawing IBC-1016-130-15 meets or exceeds the testing criteria as described above. By comparison to the construction of the 16'-2" x 8' Model 1000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IBC-1016-130-15:

- Model 1000 doors with widths up to 16'-2" and heights up to 24'-0".

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.

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