

# STRUCTURAL SOLUTIONS, P.A. \*

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR EVALUATION REPORT

|                        |                                                                         |  |                 |                                  |                 |              |                 |  |                 |  |
|------------------------|-------------------------------------------------------------------------|--|-----------------|----------------------------------|-----------------|--------------|-----------------|--|-----------------|--|
| Garage Door No.:       | IRC-5318-120-45                                                         |  | Test Date:      | 3/18/2005                        |                 | Project No.: | 05-022          |  |                 |  |
| Design Pressures:      | +21.6 psf, -24.6 psf                                                    |  | Report Date:    | 11/13/2020                       |                 |              |                 |  |                 |  |
| Test Pressures:        | +32.4 psf, -36.9 psf                                                    |  | Test Location:  | Amarr Garage Doors Test Facility |                 |              |                 |  |                 |  |
| 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 |  |
|                        | 156 mph                                                                 |  | 141 mph         |                                  | 134 mph         |              | 128 mph         |  | 123 mph         |  |

### Reference Test Report and Drawing:

- Structural Solutions, P.A.\* Garage Door Static Pressure Test Report for IRC-5318-120-45 dated 11/13/2020.
- Entrematic Drawing number IRC-5318-120-45 dated 6/16/2005.

### Description of Test Specimen:

18' x 8' 24 ga steel garage door Model 500 as shown in drawing IRC-5318-120-45.

### 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.

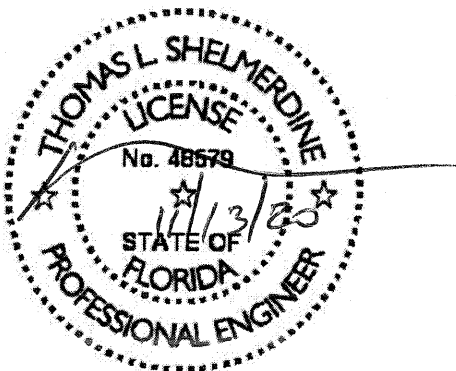
### Summary:

The 18' x 8' Model 500 as described on Drawing IRC-5318-120-45 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18' x 8' Model 500, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-5318-120-45:

- Classica 1000 doors (which is an alternate name for the Model 500)
- Classica 2000 doors (which is the Model 500 with drop-in insulation)
- Model 500, Classica 1000 and Classica 2000 doors with widths of 15'-6" up to 18'-0"
- 4 windows may be installed in 1 section (39 1/8" x 21 5/8" x 1/8" tempered glass - meets ASTM E1300-04)

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)