

# STRUCTURAL SOLUTIONS, P.A.\*

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR EVALUATION REPORT

|                        |                                                                           |  |                 |                               |                 |              |                 |  |                 |  |
|------------------------|---------------------------------------------------------------------------|--|-----------------|-------------------------------|-----------------|--------------|-----------------|--|-----------------|--|
| Garage Door No.:       | IBC-1010-115-00-S                                                         |  | Test Date:      | 9/13/2018                     |                 | Project No.: | 18-110          |  |                 |  |
| Design Pressures:      | +20.5 psf, -22 psf                                                        |  | Report Date:    | 10/13/2020                    |                 | Model #      | 1000/Superflex  |  |                 |  |
| Test Pressures:        | +30.7 psf, -33 psf                                                        |  | Test Location:  | Entrematic, Winston-Salem, NC |                 |              |                 |  |                 |  |
| 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 |  |
|                        | 149 mph                                                                   |  | 135 mph         |                               | 128 mph         |              | 123 mph         |  | 118 mph         |  |

### Reference Test Report and Drawing:

- Structural Solutions, P.A.\* Garage Door Static Pressure Test Report for IBC-1010-115-00-S dated 10/13/2020
- Entrematic Drawing number IBC-1010-115-00-S dated 6/6/2019

### Description of Test Specimen:

10'-2"x8'-0" Model 1000/Superflex, 24ga interior / 27ga exterior steel and TPO Superflex garage door as shown in drawing IBC-1010-115-00-S.

### Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ASTM E330-14 and DASMA 108-12.
- 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.

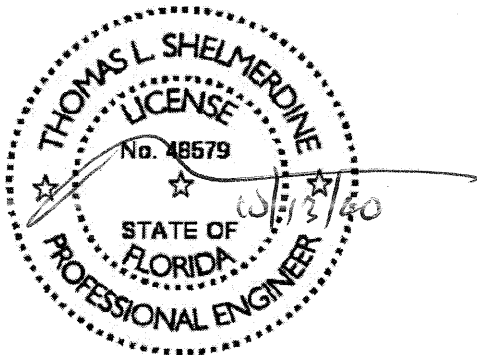
### Summary:

The 10'-2"x8'-0" Model 1000/Superflex as described on drawing IBC-1010-115-00-S meets or exceeds the testing criteria as described above. By comparison to the construction of the 10'-2"x8'-0" Model 1000/Superflex, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1010-115-00-S:

- 10'-2" x 8'-0" Amarr 2432/Superflex doors (which is an alternate name for Model 1000/Superflex)
- Door models 1000/Superflex and Amarr 2432/Superflex with widths up to 10'-2" and heights up to 24'-0"
- Up to 3 windows may be installed in one steel section (21-3/8" x 3-1/4" x 0.080" plexiglass, or 21-5/8" x 9-5/8" x 1/8" tempered glass)

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.\* (\*Florida: dba Structural Solutions of North Carolina, Inc., Firm #29412)

Thomas L. Shelmerdine, PE (NC PE #14654; Florida PE #0048579)

5921-G West Friendly Avenue ■ Greensboro, North Carolina 27410 ■ (336) 856-2686 ■ www.sspa.biz ■ NC Firm #C-1096