

# STRUCTURAL SOLUTIONS, P.A.

Structural Engineering ■ Investigations ■ Consulting

## GARAGE DOOR EVALUATION REPORT

|                        |                                                                           |  |                 |      |                                            |              |                 |                    |                 |  |
|------------------------|---------------------------------------------------------------------------|--|-----------------|------|--------------------------------------------|--------------|-----------------|--------------------|-----------------|--|
| Garage Door No.:       | IBC-3612-104-00                                                           |  | Amarr           | 3552 |                                            | Report Date: | 10/5/2023       |                    |                 |  |
| Design Pressures:      | +15.3 psf, -17.6 psf                                                      |  | Test Pressures: |      | +22.9 psf, -26.4 psf                       |              |                 | Project No. 18-077 |                 |  |
| Test Date:             | 6/27/2018                                                                 |  | Test Location:  |      | Amarr, 165 Carriage Ct., Winston-Salem, NC |              |                 |                    |                 |  |
| ASCE 7-22<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 |  |
|                        | 135 mph                                                                   |  | 122 mph         |      | 116 mph                                    |              | 111 mph         |                    | 106 mph         |  |

### Reference Drawing and Test Report(s):

- Amarr Drawing number IBC-3612-104-00 dated 07/10/2018
- Structural Solutions, P.A. report for IBC-3612-104-00 dated 10/05/2023
  - Static Air Pressure Test witnessed by Thomas L. Shelmerdine, PE

### Description of Test Specimen:

A 12'-2" wide x 8'-0" high x 2" thick sectional garage door, Amarr 3552. All sections were made of 0.05 in. aluminum. The test unit is further described on Drawing IBC-3612-104-00.

### Test Standards and Report Conclusions:

The above referenced Test Report states the following:

- The tests were conducted in accordance with ANSI/DASMA 108-12; ASTM E330-14
- The tests were witnessed and certified by: Thomas L. Shelmerdine, PE
- All tests passed the referenced Test Standards.
- The Amarr test facility is accredited by the American Association for Laboratory Accreditation, Cert. #2595.01.

### Summary:

The 12'-2"x8'-0" Amarr 3552 door as described on drawing IBC-3612-104-00 meets or exceeds the testing criteria as described above. By comparison to the construction of the 12'-2"x8'-0" Amarr 3552, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-3612-104-00:

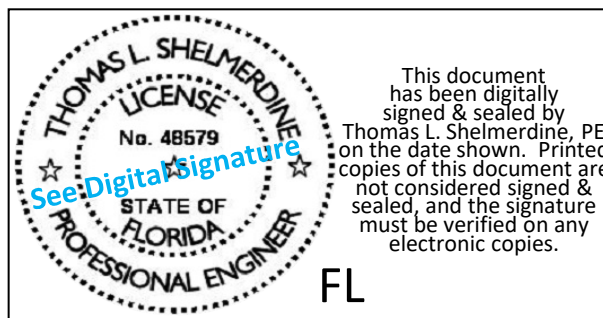
- 12'-2" x 8'-0" Amarr Vista doors, which is an alternate model number for Amarr 3552
- Amarr 3552 & Amarr Vista doors with widths of up to 12'-2" and heights of up to 24'

To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 8th Edition (2023). I certify that I have no financial interest in the testing lab(s) that performed the tests, nor in Amarr Garage Doors.

Submitted By:

Thomas L  
Shelmerdine

Digitally signed by Thomas L  
Shelmerdine  
DN: c=US, o=North Carolina,  
dnQualifier=A01410D000001856487A7  
B100125CE2, cn=Thomas L Shelmerdine  
Date: 2023.10.05 14:54:54 -04'00'



STRUCTURAL SOLUTIONS, P.A.

Thomas L. Shelmerdine, PE (Florida PE #0048579) (dba Structural Solutions of North Carolina, Inc., Florida Firm #29412)

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