

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-3618-132-63		Test Date:	9/6/2017		Project No.:	17-076			
Design Pressures:	+23.8 psf, -26.8 psf		Report Date:	10/28/2020		Model #	3550HD			
Test Pressures:	+35.7 psf, -40.2 psf		Test Location:	Entrematic, Winston-Salem, NC						
ASCE 7-16 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	
	171 mph		155 mph		147 mph		141 mph		135 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-3618-132-63 dated 10/28/2020
- Entrematic Drawing number IBC-3618-132-63 dated 10/4/2017

Description of Test Specimen:

18'-2"x8'-0" Model 3550HD, 0.050" Aluminum garage door as shown in drawing IBC-3618-132-63.

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.

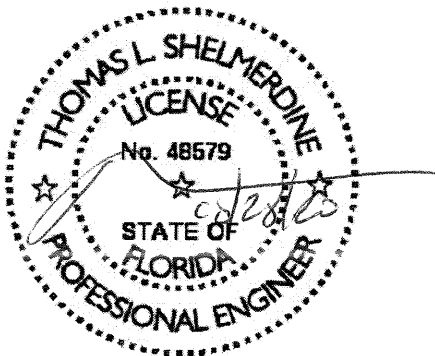
Summary:

The 18'-2"x8'-0" Model 3550HD as described on drawing IBC-3618-132-63 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-2"x8'-0" Model 3550HD, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-3618-132-63:

- 18'-2" x 8'-0" Model Vista and Amarr # 3552 doors, which are alternate model numbers
- Model 3550HD, Model Vista & Amarr 3552 doors with widths up to 18'-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.* (*Florida: dba Structural Solutions of North Carolina, Inc., Firm #29412)

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

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