

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-3010-100-11		Test Date:	6/4/2019		Project No.:	19-051			
Design Pressures:	+14.2 psf, -16.6 psf		Report Date:	10/14/2020		Model #	3040			
Test Pressures:	+21.3 psf, -24.9 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	
	129 mph		117 mph		111 mph		106 mph		102 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-3010-100-11 dated 10/14/2020
- Entrematic Drawing number IBC-3010-100-11 dated 10/28/2019

Description of Test Specimen:

10'-2"x8'-0" Model 3040, 30 ga steel garage door as shown in drawing IBC-3010-100-11.

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.

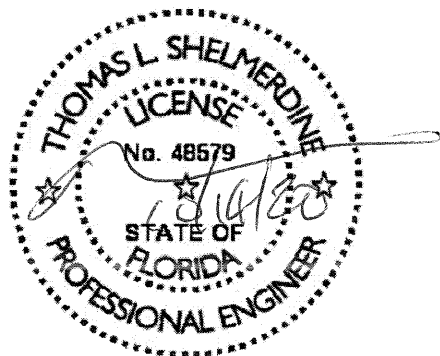
Summary:

The 10'-2"x8'-0" Model 3040 as described on drawing IBC-3010-100-11 meets or exceeds the testing criteria as described above. By comparison to the construction of the 10'-2"x8'-0" Model 3040, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-3010-100-11:

- Model 3040 doors with widths up to 10'-2" and heights up to 20'-0"
- 3 windows (3 1/4" x 21 3/8" x 0.080" insulated plexiglass, 10 3/16" x 23 3/8" x 0.080" insulated plexiglass, or 9 5/8" x 21 5/8" x 1/8" tempered glass) may be installed in 1 section.

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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