

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1018-120-15-M		Test Date:	2/21/2019		Project No.:	19-021			
Design Pressures:	+20 psf, -22.5 psf		Report Date:	10/14/2020		Model #	1000			
Test Pressures:	+30 psf, -33.8 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	
	156 mph		142 mph		135 mph		129 mph		124 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-1018-120-15-M dated 10/14/2020
- Entrematic Drawing number IBC-1018-120-15-M dated 10/11/2019

Description of Test Specimen:

18'-2"x8'-0" Model 1000, 24ga exterior / 27ga interior steel garage door as shown in drawing IBC-1018-120-15-M.

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.

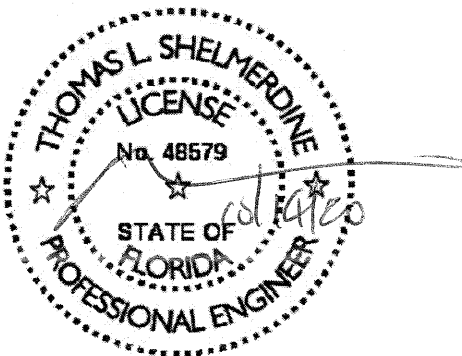
Summary:

The 18'-2"x8'-0" Model 1000 as described on drawing IBC-1018-120-15-M meets or exceeds the testing criteria as described above. By comparison to the construction of the 18'-2"x8'-0" Model 1000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1018-120-15-M:

- 18'-2" x 8'-0" Amarr #2432 doors, which is an alternate model numbers
- Model 1000 and Amarr #2432 doors with widths up to 18'-2" and heights up to 24'-0"
- Up to 5 windows may be installed in any section or sections except the bottom section. Windows may be 3 1/4" x 21 3/8" x 0.080" insulated plexiglass, or 9 5/8" x 21 5/8" x 1/8" DSB 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