

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1010-150-11-S		Test Date:	9/13/2018	Project No.:	18-108
Design Pressures:	+32.4 psf, -37.7 psf		Report Date:	10/13/2020	Model #	1000/Superflex
Test Pressures:	+48.6 psf, -56.6 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	
	195 mph	177 mph	168 mph	160 mph	154 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-1010-150-11-S dated 10/13/2020
- Entrematic Drawing number IBC-1010-150-11-S dated 6/11/2019

Description of Test Specimen:

10'-2"x8'-0" Model 1000/Superflex, 24ga exterior / 27ga interior steel and Superflex garage door as shown in drawing IBC-1010-150-11-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.

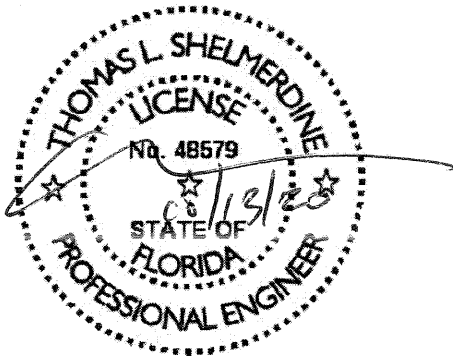
Summary:

The 10'-2"x8'-0" Model 1000/Superflex as described on drawing IBC-1010-150-11-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-1010-150-11-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