

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IBC-1009-120-00-S		Test Date:	5/15/2018		Project No.:	18-054			
Design Pressures:	+20.7 psf, -24.2 psf		Report Date:	10/21/2020		Model #	1000/Superflex			
Test Pressures:	+31.1 psf, -36.3 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	
	155 mph		140 mph		134 mph		128 mph		122 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IBC-1009-120-00-S dated 10/21/2020
- Entrematic Drawing number IBC-1009-120-00-S dated 10/1/2018

Description of Test Specimen:

9'-2"x8'-0" Model 1000/Superflex, 24ga exterior/27ga interior steel and TPO Superflex garage door as shown in drawing IBC-1009-120-00-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.

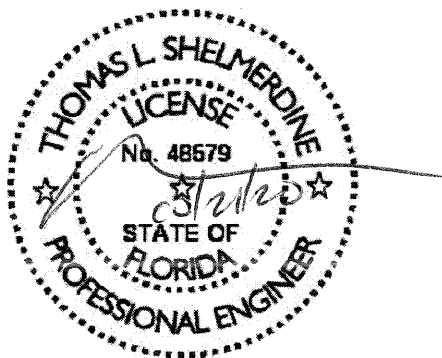
Summary:

The 9'-2"x8'-0" Model 1000/Superflex as described on drawing IBC-1009-120-00-S meets or exceeds the testing criteria as described above. By comparison to the construction of the 9'-2"x8'-0" Model 1000/Superflex, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IBC-1009-120-00-S:

- 9'-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 9'-2" and heights up to 24'-0"
- Up to 2 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)

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