

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-2460-104-63		Test Date:	5/22/2015		Project No.:	15-061			
Design Pressures:	+14.7 psf, -16.5 psf		Report Date:	10/30/2020		Model #	2400/3550			
Test Pressures:	+22.1 psf, -24.8 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	
	135 mph		122 mph		116 mph		111 mph		106 mph	

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-2460-104-63 dated 10/30/2020
- Entrematic Drawing number IRC-2460-104-63 dated 8/5/2015

Description of Test Specimen:

20'-2"x8'-0" Model 2400/3550, 24 ga steel garage door as shown in drawing IRC-2460-104-63.

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 108-05.
- 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.

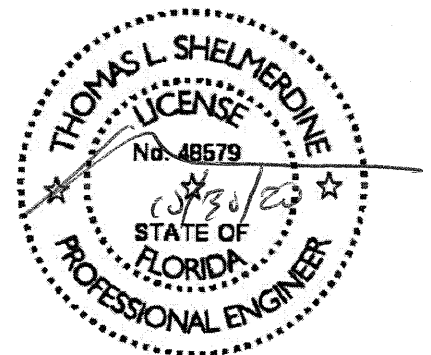
Summary:

The 20'-2"x8'-0" Model 2400/3550 as described on drawing IRC-2460-104-63 meets or exceeds the testing criteria as described above. By comparison to the construction of the 20'-2"x8'-0" Model 2400/3550, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-2460-104-63:

- 20'-2" x 8'-0" Model 2000/3550 doors (which have thicker 20ga steel sections in lieu of 24ga steel)
- Amarr 2402/3552 and Amarr 2002/3552 (which are alternate names for Model 2400/3550 and Model 2000/3550 respectively)
- Amarr 2412/3552 and Amarr 2012/3552 (which are Model 2400/3550 and Model 2000/3550 with drop-in insulation)
- Amarr 2422/3552 and Amarr 2022/3552 (which are Model 2400/3550 and Model 2000/3550 with drop-in insulation & steel backing inserts over the insulation)
- Door Models 2400/3550, 2000/3550, Amarr 2402/3552, Amarr 2412/3552, Amarr 2422/3552, Amarr 2002/3552, Amarr 2012/3552 and Amarr 2022/3552 up to 20'-2" wide and up to 24'-0" high.

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