

STRUCTURAL SOLUTIONS, P.A. *

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6018-130-24	Test Date:	9/19/2007	Project No.:	07-064
Design Pressures:	+25.4 psf, -28.7 psf	Report Date:	11/10/2020		
Test Pressures:	+38.1 psf, -43.1 psf	Test Location:	Amarr Garage Doors Test Facility		
ASCE 7-16 Criteria:	Up to 5 Feet of Door Width in Zone 5; Any Roof Slope; Enclosed Building				
	Exp. B, 30' MRH	Exp. C, 15' MRH	Exp. C, 25' MRH	Exp. D, 15' MRH	Exp. D, 25' MRH
	168 mph	152 mph	145 mph	138 mph	133 mph

Reference Test Report and Drawing:

- Structural Solutions, P.A.* Garage Door Static Pressure Test Report for IRC-6018-130-24 dated 11/11/2020.
- Entrematic Drawing number IRC-6018-130-24 dated 10/2/2007.

Description of Test Specimen:

18' x 7' 25 ga steel garage door Model 600 as shown in drawing IRC-6018-130-24.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The test was conducted in accordance with ASTM E330
- The door was operable before and after test
- 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.

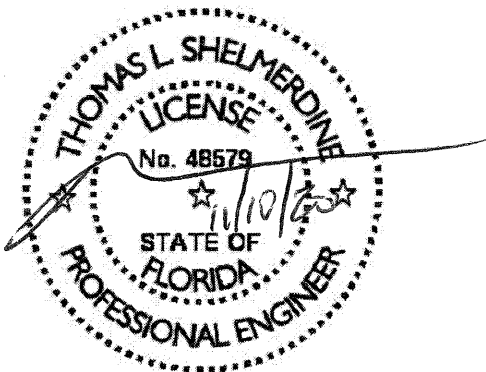
Summary:

The 18' x 7' Model 600 as described on Drawing IRC-6018-130-24 meets or exceeds the testing criteria as described above. By comparison to the construction of the 18' x 7' Model 600, the following doors also meet or exceed the above testing criteria, when constructed in accordance with Drawing IRC-6018-130-24:

- Model 650 doors (which have the "Oak Summit" embossment pattern)
- Model 950 doors (which have thicker 24 ga. exterior skin)
- Stratford 1000 doors (which are Model 600), Oak Summit 1000 doors (which are Model 650), Heritage 1000 doors (which are Model 950)
- Stratford 2000, Oak Summit 2000, and Heritage 2000 doors (which have drop-in insulation)
- Model 600, 650, 950, Stratford 1000 & 2000, Oak Summit 1000 & 2000, and Heritage 1000 & 2000 doors with widths of up to 18' and heights of up to 14'.
- Short, Long, Flush, and Oak Summit Panels, which are alternate embossment patterns in the skin

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.

Thomas L. Shelmerdine, PE (Florida PE #0048579)