

STRUCTURAL SOLUTIONS, P.A.*

Structural Engineering ■ Investigations ■ Consulting

GARAGE DOOR EVALUATION REPORT

Garage Door No.:	IRC-6212-175-24-I	Test Date:	2/20-2/22/2017	Project No.:	17-097
Design Pressures:	+47.4 psf, -54.8 psf	Report Date:	10/28/2020	Model #	625 Lincoln 1000
Test Pressures:	+71.1 psf, -82.2 psf	Test Location:	American Test Lab, Inc., Brevard, NC		
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
	226 mph	205 mph	195 mph	186 mph	179 mph

Reference Test Report and Drawing:

- American Test Lab, Inc. report number ATLNC-0220.03-17 dated 12/13/2017
- Entrematic Drawing number IRC-6212-175-24-I dated 12/4/2017

Description of Test Specimen:

12'-2"x7'-0" Model 625 Lincoln 1000, 25 ga steel garage door as shown in drawing IRC-6212-175-24-I.

Test Standards and Report Conclusion:

The above referenced Test Report states the following:

- The tests were conducted in accordance with TAS 201, 202, 203; ASTM E330-02, E1886-05, E1996-09, F588-07, E8; and ANSI / DASMA 108-05, 115-2012.
- The weight of the missile used for the Large Missile Impact Test was 9.3 lbs.
- All tests were conducted with no deviations.
- The test was witnessed and certified by David Johnson, PE, 1656 Calvert Road, Brevard, NC (FL PE #00061915)
- American Test Lab is accredited by IAS, Certification #TL-423.

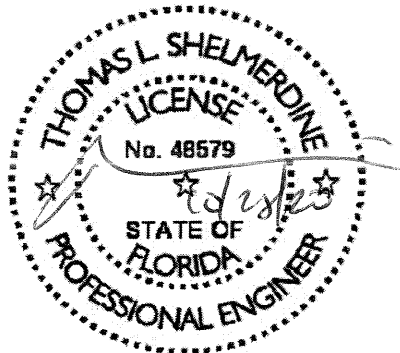
Summary:

The 12'-2"x7'-0" Model 625 Lincoln 1000 as described on drawing IRC-6212-175-24-I meets or exceeds the testing criteria as described above. By comparison to the construction of the 12'-2"x7'-0" Model 625 Lincoln 1000, the following doors also meet or exceed the above testing criteria, when constructed in accordance with drawing IRC-6212-175-24-I:

- 12'-2" x 7' Model 675 doors, which have alternate embossment patterns in the skin
- 12'-2" x 7' Amarr Lincoln 1000 and Amarr Hillcrest 1000 doors (which are alternate names for Models 625 & 675)
- 12'-2" x 7' Amarr Lincoln 1500 & 2000 and Amarr Hillcrest 1500 & 2000 doors (which are Models 625 & 675 with insulation)
- Model 625, 675, Amarr Lincoln & Amarr Hillcrest 1000, 1500 & 200 doors, with widths up to 12'-2" and heights up to 14'-0"
- 6 windows may be installed in 1 section (18-1/8" x 10-5/8" x 5/16" overall thickness [1/8" annealed glass, 0.090" Solutia PVB interlayer, 1/8" annealed glass] - meets ASTM E1300-04)

To the best of my knowledge, the above garage door conforms to the requirements of the Florida Building Code 7th Edition (2020).

Submitted By:



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