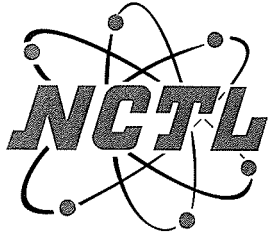


SUPERSEAL MANUFACTURING CO.

STRUCTURAL TEST REPORT

Series "1700 Fixed Lite
Vinyl Prime Window

NCTL-110-8836-3



NATIONAL CERTIFIED TESTING LABORATORIES

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STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-110-8836-3
Test Date: 08/04/03
Report Date: 08/08/03
Expiration Date: 08/31/07

Client: Superseal Manufacturing Co.
125 Helen Street, P.O. Box 795
South Plainfield, NJ 07080

Test Specimen: Superseal Manufacturing Co.'s Series "1700" Fixed Lite Vinyl Prime Window (F-R70 48x48).

Test Method: AAMA/NWWDA 101/I.S. 2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC), and Wood Windows and Glass Doors."

TEST SPECIMEN DESCRIPTION

General: The test specimen was a fixed lite vinyl prime window measuring 48" wide by 48" high overall. The fixed lite was glazed to the frame members, providing a viewing area of 43-3/8" wide by 43-3/8" high. The frame was of welded mitered corner construction.

Glazing: The fixed lite was interior glazed using sealed insulating glass with an adhesive foam tape back-bedding and a snap-in two (2) leaf dual durometer glazing bead. The overall insulating glass thickness was 3/4" consisting of two (2) lites of double strength annealed glass and one (1) space created by a desiccant matrix steel spacer system.

Weatherseals: No weatherseals employed.

Weeps: One (1) weep hole measuring 3/8" in diameter was located at 8-1/4" from each end and at midspan of the sill glazing channel. One (1) weep hole measuring 1-1/4" x 5/16" and employing a plastic weep cover was located at 1-1/4" from each end of the exterior sill face.

Interior & Exterior Surface Finish: White vinyl (PVC).

Sealant: The exterior glazing perimeter was sealed with a silicone sealant. The ends of the glazing beads were sealed with a PVC cement sealant.

TEST RESULTS

<u>Par. No.</u>	<u>Title Of Test</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration - ASTM E283 1.57 psf (25 mph)	0.1 cfm/ft ² (0.01 cfm/ft ²)	0.3 cfm/ft ²
2.1.3	Water Resistance - ASTM E547 5.0 gph/ft ² WTP = 2.86 psf	No Leakage	No Leakage
2.1.4.2 **	Uniform Load Structural - ASTM E330 22.5 psf Exterior 22.5 psf Interior	0.002" 0.001"	0.186" 0.186"
2.1.7	Welded Corner	Meets as Stated	
2.1.8	Forced Entry Resistance - ASTM F588 Level 10 (See Appendix A for test results)	Meets as Stated	

OPTIONAL PERFORMANCE

4.3	Water Resistance - ASTM E547 5.0 gph/ft ² WTP = 10.5 psf	No Leakage	No Leakage
4.4.2 **	Uniform Load Structural - ASTM E330 105.0 psf Exterior 105.0 psf Interior	0.003" 0.005"	0.186" 0.186"

** No glass breakage or permanent damage causing the unit to be inoperable

TEST COMPLETED 08/04/03

This test specimen meets (or exceeds) the performance levels specified in Table 2.1 of AAMA/NWWDA 101/I.S. 2-97 for air infiltration. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the F-R70 48x48 product designation.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen may be drawn from this test. This report does not constitute certification of the product which may only be granted by a certification program validator.

NATIONAL CERTIFIED TESTING LABORATORIES



MARC A. CRAMER

Technician



SCOTT R. HANLON

Manager of Testing Services

APPENDIX A
Forced Entry Resistance Test Results

Test Method: *ASTM F588-97, "Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact".*

TEST RESULTS

<u>Paragraph No.</u>	<u>Loads</u>	<u>Duration</u>	<u>Measured</u>	<u>Allowed</u>
10.2.4.2 Glazing / Panel Manipulation	N/A	5 Minutes	No Entry	No Entry