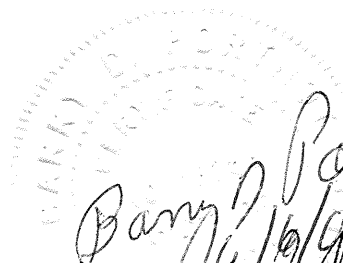


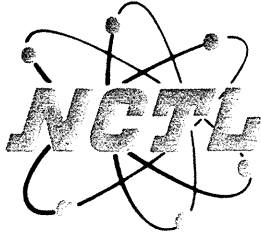
STANEK VINYL WINDOWS

STRUCTURAL PERFORMANCE TEST REPORT

Model "Ultra Series 2000" Fixed Vinyl Prime Window

NCTL-110-7227-3


Baryl Paulino
3/24/02



NATIONAL CERTIFIED TESTING LABORATORIES

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STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-110-7227-3
Test Date: 03/02/00
Report Date: 03/09/00
Expiration Date: 03/31/04

Client: Stanek Vinyl Windows
4582 Willow Parkway
Cuyahoga Heights, OH 44125

Test Specimen: Stanek Vinyl Windows' Model "Ultra Series 2000" Fixed Vinyl Prime Window (F-R50 72x66).

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 72" wide by 66" high overall. The fixed lite was glazed to the frame members, providing a viewing area of 66-3/8" wide by 60-1/2" high. A rigid vinyl cover was snap-fitted at the interior track perimeter. The frame was of welded mitered corner construction.

Glazing: The fixed lite was interior glazed using sealed insulating glass with a butyl tape back-bedding and a snap-in dual leaf dual durometer glazing bead. The overall insulating glass thickness was 1" consisting of two (2) lites of 3/16" thick annealed glass and one (1) air-filled space created by an "Intercept" spacer system.

Weatherseals: No weatherseals employed.

Weeps: One (1) weep hole measuring 3/4" x 3/16" was located at each end of the center vertical sill leg which drained to the exterior hollow. One (1) weep hole measuring 1" x 1/8" was located at each end of the sill glazing channel horizontal surface which drained to the exterior sill track hollow. One (1) weep hole measuring 1-1/2" x 1/4" and employing a plastic/aluminum weep cover was located at 2-7/8" from each end of the exterior sill face.

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

Sealant: The dual durometer glazing bead was cemented at the interior perimeter.

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3/16/02
3/22/02

TEST RESULTS

<u>Par. No.</u>	<u>Title Of Test</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration - ASTM E283 0.57 psf (15 mph)	0.1 cfm/ft ² (0.01 cfm/ft ²)	-----
	1.57 psf (25 mph)	0.1 cfm/ft ² (0.02 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	0.000" 0.000"	0.286" 0.286"
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 = 12.0 psf	No Leakage	No Leakage
4.4.2 **	Uniform Load Structural - ASTM E330 75.0 psf Exterior 75.0 psf Interior	0.001" 0.001"	0.286" 0.286"
**	No glass breakage or permanent damage causing the unit to be inoperable		

TEST COMPLETED 03/02/00

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-R50 72x66 product designation.

Bo 6/16/02
Gary Palms
3/24/02

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

Douglas R. Young (amb)

DOUGLAS R. YOUNG
Technician

Marc A. Cramer

MARC A. CRAMER
Acting Manager of Testing Services

DRY/amb

B. J. ...
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APPENDIX A
Forced Entry Resistance Test Results

Test Method: ASTM F588-97, "Standard Test Method for Resistance of Window Assemblies to Forced Entry, Excluding Glazing."

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

Handwritten signature and date:
3/6/02
Bany Portney
3/24/02