

**Stanek Vinyl Windows
Structural Performance Test Report
NCTL 210-2712-1
Series "3000" Vinyl
Horizontal Sliding Window
Test Date: 10/15/01**

Banyo Palmy
Banyo Palmy
10/16/01
10/16/01

Weatherseals: One (1) strip of centerfin polypile weatherstrip (0.290" high) was located at the interior sill leg and active head. One (1) strip of centerfin polypile weatherstrip (0.290" high) was located at the interior of the fixed meeting stile and the interior of the active jamb. One (1) strip of centerfin polypile weatherstrip (0.290" high) was located at the center sill head and active jamb leg. One (1) strip of centerfin polypile weatherstrip (0.290" high) was located at the interior top rail of the active sash and the interlocking stile of the active sash.

Weeps: One (1) weep hole measuring 1-1/2" x 1/4" and employing a plastic weep cover was located at 3-1/4" from each end of the exterior sill face. One (1) weep hole measuring 1" x 1/8" was located 4-1/8" from each end of the exterior sill track. One (1) weep hole measuring 1/4" x 1/4" in diameter was located at each end of the sill track.

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

Sealant: The fixed meeting stile was sealed at the head and sill with small joint sealant.

Screen: No screen employed.

TEST RESULTS

<u>Par. No.</u>	<u>Title of Test & Method</u>	<u>Measured</u>	<u>Allowed</u>
2.2.2.5.1	Operating Force Active Panel Open Close	14 lbf 16 lbf	25 lbf 25 lbf
2.2.2.5.2	Deglazing - ASTM E987 Active Panel Top Rail (50 lbf) Bottom Rail (50 lbf) Left Hand Stile (70 lbf) Right Hand Stile (70 lbf)	11.2 % (0.056") 8.4 % (0.042") 12.4 % (0.062") 8.0 % (0.040")	<100% <100% <100% <100%
2.1.2	Air Infiltration - ASTM E283 1.57 psf (25 mph)	0.04 cfm/ft ²	0.3 cfm/ft ²
2.1.3 *	Water Resistance - ASTM E547/ASTM E331 5.0 gph/ft ² WTP= 9.0 psf	No Leakage	No Leakage
2.1.4.2 **	Uniform Load Structural - ASTM E330 60.0 psf Exterior 60.0 psf Interior	0.030" 0.000"	0.264" 0.264"
2.1.8	Forced Entry Resistance - ASTM F588 Level 10 (See Appendix A for test results)		

Meets As Stated

Handwritten signatures and stamps, including a circular seal, are present at the bottom right of the page.

OPTIONAL PERFORMANCE

<u>Par. No.</u>	<u>Title of Test & Method</u>	<u>Measured</u>	<u>Allowed</u>
4.3	Water Resistance - ASTM E547/ASTM E331 5.0 gph/ft ² WTP= 11.25 psf	No Leakage	No Leakage
4.4.2	** Uniform Load Structural - ASTM E330 90.0 psf Exterior 90.0 psf Interior	0.128" 0.088"	0.264" 0.264"
	** No glass breakage or permanent damage causing the unit to be inoperable		

TEST COMPLETED 10/15/01

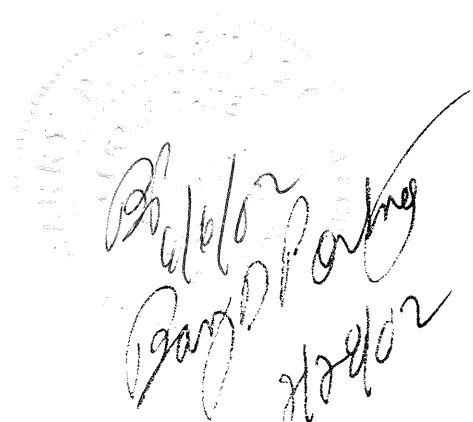
The tested specimen meets (or exceeds) the performance levels specified in Table 2.1 of AAMA/NWWDA 101/I.S.2-97 for air infiltration. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the HS-R70 126 x 72 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



DANIEL D. CONYERS
Laboratory Manager



APPENDIX A
Forced Entry Resistance Test Results

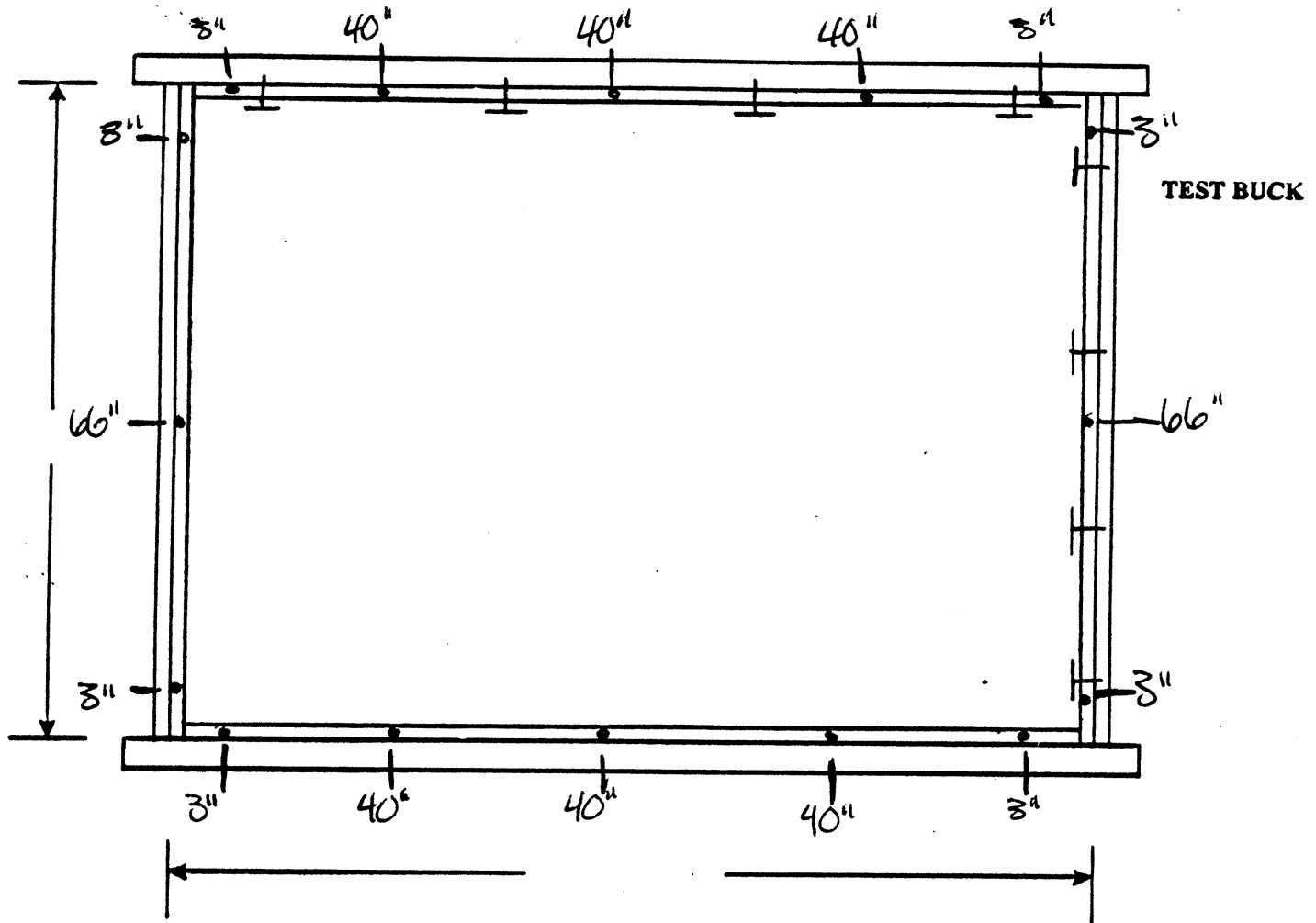
Test Method: ASTM F588-97, "Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact".

TEST RESULTS

<u>Paragraph No.</u>	<u>Loads</u>	<u>Duration</u>	<u>Measured</u>	<u>Allowed</u>
10.1-Lock Manipulation		5 Minutes	No Entry	No Entry
10.2.1.1-Test A1	L1=150 lbf	1 Minute	No Entry	No Entry
10.2.1.2-Test A2	L1=150 lbf L2= 75 lbf interior	1 Minute	No Entry	No Entry
10.2.1.3-Test A3	L1=150 lbf L2= 75 lbf exterior	1 Minute	No Entry	No Entry
10.2.1.4-Test A4	L1=150 lbf L2= 75 lbf interior	1 Minute	No Entry	No Entry
10.2.1.5-Test A5	L1= 150 lbf L2= 75 lbf exterior	1 Minute	No Entry	No Entry
10.2.1.7-Test A7	L1=150 lbf L2= 75 lbf interior L3= 25 lbf interior	1 Minute	No Entry	No Entry
10.2.1.8 Lock Manipulation		5 Minutes	No Entry	No Entry
10.2.4.1 Fixed Lite Lock Manipulation		5 Minutes	No Entry	No Entry

A circular stamp is visible in the bottom right corner, partially obscured by handwritten signatures. The stamp contains the text "NATIONAL CENTER FOR TESTING & RESEARCH" around the perimeter. The signatures are written in black ink over the stamp.

FASTENER LOCATIONS



The test specimen was mounted to the test buck using screws at location shown.

The test specimen was mounted centered on a Southern Yellow Pine 2"x12" test buck using 10 #8X3 FHS

Bryan P. Taylor
Bryan P. Taylor
10/15/01

NATIONAL CERTIFIED TESTING LABORATORIES

JOB NO.: NCTL-210-2712-1

COMPANY: Stank Windows

TEST DATE: 10-15-01