
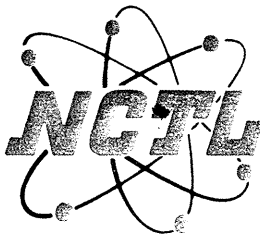


Stanek Vinyl Windows
Structural Performance Test Report
NCTL 210-2727-2
Series "2000" Vinyl
Double Hung Window
Test Date: 10/16/01


Bryan Parke
10/16/01
10/16/01



NATIONAL CERTIFIED TESTING LABORATORIES

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837
PHONE (407) 240-1356 • FAX (407) 240-8882

STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-210-2727-2
Test Date: 12/05/01
Report Date: 02/12/02
Expiration Date: 12/05/05

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

Test Specimen: Stanek Vinyl Window's Series "2000" Double Hung Prime Vinyl Window (H-R50). (Reference NCTL 210-2727-1 for Air and Water Results)

Test Specification: 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 one-over-one tilt double hung vinyl prime window measuring 52" wide by 69-1/2" high overall. The top sash measured 48" wide by 34" high. The bottom sash measured 49-1/8" wide by 34" high. Frame and sash members were not thermally broken. Both sash were removable via a single spiral balance with locking tilt shoe located in each interior jamb track. One (1) metal cam-type sweep lock was located at 14" from each end of the interior top rail of bottom sash. The metal keeper was located on the bottom rail of the top sash at lock positions. One (1) plastic tilt latch with thumb actuator was housed at each end of the top rail of both the top and bottom sashes. One (1) die cast pivot bar was fastened with two (2) screws at each end of the bottom rail of both the top and bottom sashes. A rigid vinyl cover/weatherstrip holder/interior vertical sill leg was snap-fitted at the interior of the sill track. One (1) galvanized steel rectangular reinforcement channel (0.050" thick) filled the length of the sill. One (1) galvanized steel rectangular reinforcement channel (0.050" thick) filled the length of the top and bottom sash perimeter hollows. Frame and sash were of welded mitered corner construction.

Glazing: Both active sash were interior glazed using sealed insulating glass with a dual durometer back-bedding and a snap-in dual durometer rigid vinyl glazing bead. The overall insulating glass thickness 7/8" consisting of two (2) lites of double strength annealed glass and one (1) air space created by an aluminum spacer system.

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Weatherseals: Two (2) strips of center fin polypile weatherstrip (0.300") high were located at both stiles of the top and bottom sash. One (1) strip of center fin polypile weatherstrip (0.300") high was located at the bottom rail of the top sash at interlock position. One (1) strip of center fin polypile weatherstrip (0.300") high was located at the top rail of the bottom sash at the interlock position. One (1) strip of center fin weatherstrip (0.300") high was located at the bottom rail of the bottom sash. One (1) strip of single leaf bulb vinyl weatherstrip was located at the bottom rail of the bottom sash. One (1) strip of center fin polypile weatherstrip (0.300") high was located at the interior sill leg and the center vertical leg of the head. One (1) open cell foam pad was located at each end of the interior and exterior sill hollows.

Weeps: One (1) weep hole measuring 1-1/2" x 1/4" was located at 2-7/8" from each end of the exterior vertical face. One (1) weep hole measuring 1/4" x 1/4" was located at each end of the exterior meeting rail and bottom rail glazing channels. One (1) weep hole measuring 1/4" x 1/4" was punched through the pivot bar and located at each end of the exterior meeting rail and bottom rail exterior horizontal surfaces.

Interior & Exterior Surface Finish: White vinyl PVC

Sealant: N/A

Screen: None employed.

TEST RESULTS

<u>Par. No.</u>	<u>Title of Test & Method</u>	<u>Measured</u>	<u>Allowed</u>
2.1.4.2 **	Uniform Load Structural - ASTM E330		
	52.5 psf Exterior	0.125"	0.192"
	52.5 psf Interior	0.045"	0.192"
2.1.4.2 **	Uniform Load Structural - ASTM E330		
	75.0 psf Exterior	0.125"	0.192"
	75.0 psf Interior	0.050"	0.192"

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

TEST COMPLETED 12/05/02

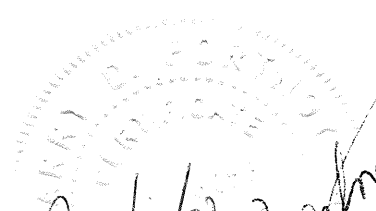
Handwritten signature and date "12/6/02" are present over a circular stamp. The stamp contains the text "NCTL" and "210-2727-2".

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 H-R50 product designation.

Detailed drawings were available for laboratory records and comparison 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.

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DANIEL CONYERS
Laboratory Manager


Handwritten notes:
09/16/07
guy?
Hester