

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-210-2231-5
TEST DATE: 07-14-99
REPORT DATE: 07-29-99
EXPIRATION DATE: 07-29-03

CLIENT: Seasonsshield Incorporated
355 Center Court
Venice, FL 34292

TEST SPECIMEN: Seasonsshield Incorporated's Series "6600" Fixed Lite Aluminum Prime Window.
(F-C100) (72 x 72)

TEST SPECIFICATION: AAMA/NWWDA 101/I.S. 2-97. Voluntary Specifications for Aluminum and Poly Vinyl Chloride (PVC) Prime Windows and Glass Doors".

TEST SPECIMEN DESCRIPTION

GENERAL: The test specimen was a fixed lite aluminum prime window measuring 6'0-1/4" wide by 6'0-1/4" high overall. Frame members were not thermally broken. The frame was of double screw (# 8 x 1") pan head coped corner construction.

GLAZING: The fixed lite was interior glazed using 3/16" thick tempered glass with an adhesive and butyl tape bedding and an extruded aluminum glazing bead. The extruded aluminum glazing bead was screwed-in-place using (# 8 x 1) self-tapping pan head screws.

WSTP: No weatherstrip employed.

WEEPS: No weeps employed.

INTERIOR & EXTERIOR SURFACE FINISH: White painted aluminum.

SEALANT: Frame corners were sealed with a small-joint sealant.

INSECT SCREEN: No screen employed.

INSTALLATION FASTENERS: The frame was mounted to the test buck using twenty (20) (# 8 x 1") pan head screws.

TEST RESULTS

<u>PARAGRAPH NO.</u>	<u>TITLE OF TEST</u>	<u>MEASURED</u>	<u>ALLOWED</u>
**2.1.2	Air Infiltration 1.57 psf (25 mph)	0.00 CFM/FT ²	0.15 CFM/FT ²
2.1.3	* Water Resistance - (5.0 GPH/FT ²) WTP= 3.00 psf	No Entry	No Entry
2.1.4.2	Uniform Load Structural 45.0 psf exterior 45.0 psf interior	0.000" 0.000"	0.289" 0.289"

OPTIONAL PERFORMANCE

**4.3	* Water Resistance - (5.0 GPH/FT ²) WTP = 20.00 psf	No Entry	No Entry
4.4.2	Uniform Load Structural 150.0 psf Exterior 150.0 psf Interior	0.009" 0.008"	0.289" 0.289"

TEST COMPLETED 07-14/99

** Reference parent test report no. NCTL-210-2231-4 for test results and qualifications.

The specimen tested meets the criteria level of F-C100 (72 x 72) of the AAMA/NWWDA 101/I.S. 2-97 specification.

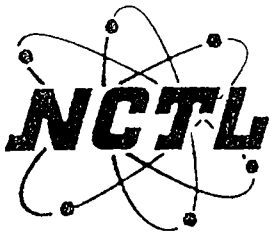
Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested.

Ray O. Palma
8/4/99

JW/d

NATIONAL CERTIFIED TESTING
LABORATORIES, INC.

John Williams
JOHN WILLIAMS
Technician



NATIONAL CERTIFIED TESTING LABORATORIES

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STRUCTURAL PERFORMANCE TEST REPORT

REPORT NO.: NCTL-210-2231-4

TEST DATE: 07-14-99

REPORT DATE: 07-29-99

EXPIRATION DATE: 07-29-03

CLIENT: Seasonsshield Incorporated
355 Center Court
Venice, FL 34292

TEST SPECIMEN: Seasonsshield Incorporated's Series "6600" Fixed Lite Aluminum Prime Window.
(F-C30) (72 x 72)

TEST SPECIFICATION: AAMA/NWWDA 101/I.S. 2-97. Voluntary Specifications for Aluminum and Poly Vinyl Chloride (PVC) Prime Windows and Glass Doors".

TEST SPECIMEN DESCRIPTION

GENERAL: The test specimen was a fixed lite aluminum prime window measuring 6'0-1/4" wide by 6'0-1/4" high overall. Frame members were not thermally broken. The frame was of double screw (# 8 x 1") pan head coped corner construction.

GLAZING: The fixed lite was interior glazed using 3/16" thick annealed glass with an adhesive and butyl tape bedding and an extruded aluminum glazing bead. The extruded aluminum glazing bead was screwed-in-place using (# 8 x 1) self-tapping pan head screws.

WSTP: No weatherstrip employed.

WEEPS: No weeps employed.

INTERIOR & EXTERIOR SURFACE FINISH: White painted aluminum.

SEALANT: Frame corners were sealed with a small-joint sealant.

INSECT SCREEN: No screen employed.

INSTALLATION FASTENERS: The frame was mounted to the test buck using twenty (20) (# 8 x 1") pan head screws.

TEST RESULTS

<u>PARAGRAPH NO.</u>	<u>TITLE OF TEST</u>	<u>MEASURED</u>	<u>ALLOWED</u>
2.1.2	Air Infiltration 1.57 psf (25 mph)	0.00 CFM/FT ²	0.30 CFM/FT ²
2.1.3	* Water Resistance - (5.0 GPH/FT ²) WTP= 4.50 psf	No Entry	No Entry
2.1.4.2	Uniform Load Structural 45.0 psf exterior 45.0 psf interior	0.006" 0.012"	0.289" 0.289"

OPTIONAL PERFORMANCE

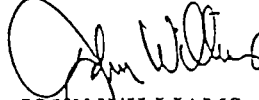
4.3	* Water Resistance - (5.0 GPH/FT ²) WTP = 20.00 psf	No Entry	No Entry
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TEST COMPLETED: 07-14-99

The specimen tested meets the criteria level of F-C30 (72 x 72) of the AAMA/NWWDA 101/I.S. 2-97 specification.

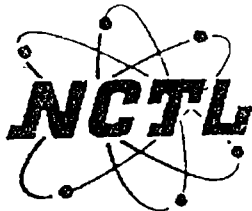
Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested.

NATIONAL CERTIFIED TESTING
LABORATORIES, INC.


JOHN WILLIAMS
Technician

JW/d


8/19/99



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STRUCTURAL PERFORMANCE TEST REPORT

REPORT NO.: NCTL-210-2231-6
TEST DATE: 07-14-99
REPORT DATE: 07-29-99
EXPIRATION DATE: 07-29-03

CLIENT: Seasonsshield Incorporated
355 Center Court
Venice, FL 34292

TEST SPECIMEN: Seasonsshield Incorporated's Series "6600" Fixed Lite Aluminum Prime Window.
(F-C60) (+08-x 52)

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TEST SPECIFICATION: AAMA/NWDA 101/I.S. 2-97. Voluntary Specifications for Aluminum and Poly Vinyl Chloride (PVC) Prime Windows and Glass Doors".

TEST SPECIMEN DESCRIPTION

GENERAL: The test specimen was a fixed lite aluminum prime window measuring 12'0" wide by 4'4-1/8" high overall. Frame members were not thermally broken. The frame was of double screw (# 8 x 1") pan head coped corner construction.

GLAZING: The fixed lite was interior glazed using 3/16" thick tempered glass with an adhesive and butyl tape bedding and an extruded aluminum glazing bead. The extruded aluminum glazing bead was screwed-in-place using (# 8 x 1") self-tapping pan head screws.

WSTP: No weatherstrip employed.

WEEPS: No weeps employed.

INTERIOR & EXTERIOR SURFACE FINISH: White painted aluminum.

SEALANT: Frame corners were sealed with a small-joint sealant.

INSECT SCREEN: No screen employed.

PROFESSIONALS IN THE SCIENCE OF TESTING

Seasonshield, Incorporated

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NCTL-210-2231-6

INSTALLATION FASTENERS: The frame was mounted to the test buck using twenty-two (22) (# 8 x 1") pan head screws.

TEST RESULTS

<u>PARAGRAPH NO.</u>	<u>TITLE OF TEST</u>	<u>MEASURED</u>	<u>ALLOWED</u>
**2.1.2	Air Infiltration 1.57 psf (25 mph)	0.00 CFM/FT ²	0.15 CFM/FT ²
**2.1.3	Water Resistance - (5.0 GPH/FT ²) WTP= 3.00 psf	No Entry	No Entry
2.1.4.2	Uniform Load Structural 45.0 psf exterior 45.0 psf interior	0.008" 0.011"	0.432" 0.432"

OPTIONAL PERFORMANCE

**4.3	Water Resistance - (5.0 GPH/FT ²) WTP = 20.00 psf	No Entry	No Entry
4.4.2	Uniform Load Structural 90.0 psf Exterior 90.0 psf Interior	0.024" 0.029"	0.432" 0.432"

TEST COMPLETED: 07-14-99

** Reference parent test report no. NCTL-210-2131-4 for test results and qualifications.

The specimen tested meets the criteria level of F-C60 (108 x 52) of the AAMA/NWWDA 101/1.S. 2-97 specification.

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.

Barry B. Courtney
07/14/99

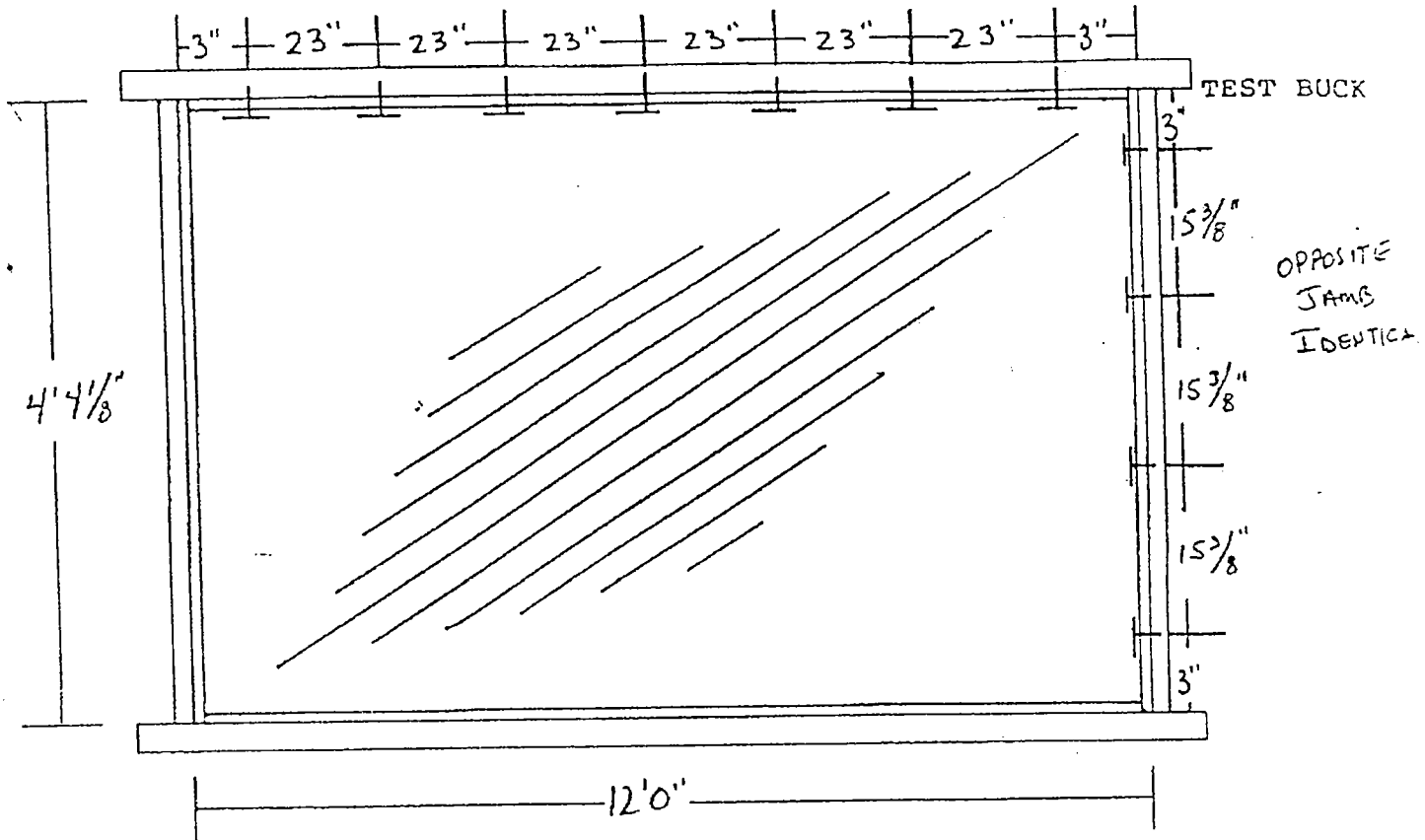
JW/d

NATIONAL CERTIFIED TESTING
LABORATORIES, INC.

John Williams
JOHN WILLIAMS
Technician

HEAD AND SILL IDENTICAL

FASTENER LOCATIONS



The test specimen was mounted to the test buck using Twenty-Two (22) (#8x1 1/4" PHS) screws located at location shown

METRO-DADE COUNTY REQUIRED

NATIONAL CERTIFIED TESTING LABORATORIES

JOB NO.: NCTL-210-2231-6(S)E

COMPANY: SEARON SHILO INC.

TEST DATE: 7/14/99