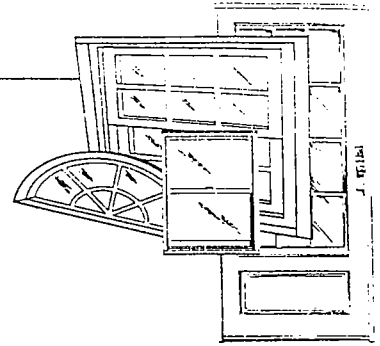


CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822
(407) 384-7744 • Fax (407) 384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch.com



Report Number: CTLA-912W-2B
Report Date: October 9, 2002

STRUCTURAL PERFORMANCE TEST REPORT

Client: SEASONSIELD INCORPORATED
355 CENTER COURT
VENICE, FLORIDA 34292

Product Type and Series: Series 9600 Vinyl Sliding Glass Door SGD-R30 (96" x 96")

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

Frame: Vinyl fin frame measured 96" x 96" overall. Mitered and welded corner construction.
No fin on sill.

Configuration: XO

Ventilator: Two (2) panels measuring 49.25" x 93.5" with a clear lite opening of 44.25" x 88.5".
Mitered and welded corner construction.

Weather Stripping:	<u>Quantity</u>	<u>Description</u>	<u>Location</u>
	Two (2) strip	Woolpile .250" high w/ integral plastic fin	Frame head, sill and jambs interior
	One (1) strip	Woolpile .250" high w/ integral plastic fin	Interlock stiles

Hardware & Location:

<u>Quantity</u>	<u>Description</u>	<u>Location</u>
One (1)	Metallic cam locks	Lock stile
One (1)	Metallic keeper	Frame jamb
Two (2)	Dust plug	Fixed Interlock stile
One (1)	Tandem Steel roller	Each end of bottom rail active panel

Glazing: 3/16" Tempered glass, interior glazed with an adhesive backbedding compound and vinyl snap in glazing bead.

Sealant: N/A

Weep System: One (1) 750" x .200" high weep slots through three legs of sill can weeping to exterior, located 3" from each end of sill.

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11/5/02

Muntins: N/A

Screen: Vinyl frame, fiberglass mesh with vinyl spline, Two (2) Plastic wheel stop and bottom
Corners secured with plastic corner keys.

Reinforcement: One (1) piece of extruded aluminum Drawing # A031H012 in each fixed panel member
One (1) piece of extruded aluminum Drawing # A031H003 in each moving panel member .

Additional Description: N/A

Installation: The test specimen was installed and secured into wooden test buck with twenty six (26)
10d x 1" roofing nails located Eight (8) in the head 8",21",33.5",46.25",59",71.25",84.25"
and 97.25" measuring from left jamb to right jamb. Eight (8) in each jamb located
6",19",26.5",39",44.5",57",70",82.5", and 95" measuring from sill to head.

Surface Finish: White

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural
loads. The film was used in a manner that did not influence the test results.

Performance Test Results

Paragraph No.	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @1.57 psf	ASTM E283-91	.02 cfm/ft ²	.34 cfm/ft ²

The tested specimen meets or exceeds the performance levels specified in
AAMA/NWDA 101/I.S.2-97. Results recorded in two (2) decimals at the clients
request.

2.1.3	Water Resistance @5.0 gph/ft ²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
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	WTP= 4.5 psf Standard sill. Unit tested with and without insect screen	Fifteen (15) minute duration	No Entry	No Entry
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2.1.3	Water Resistance @5.0 gph/ft ²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
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	WTP= 7.5 psf	Fifteen (15) minute duration	No Entry	No Entry
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Unit passed with add on sill riser. Overall sill height 1.5".
Unit tested with and without insect screen

2.1.4.2	Uniform Load Structural Permanent Deformation @ 45 psf positive @ 45 psf negative	ASTM E330-90 Ten (10) second duration	.175" .252"	.374" .374"
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11/27/02

Performance Test Results (continued)

Paragraph No.	Title of Test	Method	Measured	Allowed
2.1.8	Forced Entry Resistance	AAMA 1302.5-76		
	Test A		0"	1/2"
	Test B		0"	1/2"
	Test C		0"	1/2"
	Test D,E and F		0"	1/2"
	Test G		0"	1/2"
2.2.2.5.1	Operating Force	AAMA/NWWDA 101/I.S.2-97		
	Panel force to open		28lbs.	30 lbs.
	Panel to keep in motion		11lbs.	20 lbs.
2.2.2.5.2	Deglazing	ASTM E987-88		
	Top Rail 50 lbs.		.014"= 2.2%	<100%
	Bottom Rail 50 lbs.		.018"= 2.9%	<100%
	Left Side 70 lbs.		.022"= 3.5%	<100%
	Right Side 70 lbs.		.027"= 4.3%	<100%
2.1.7	Welded Corner Test	AAMA/NWWDA 101/I.S. 2-97		Passed

Test Date: August 16, 2002

Test Completion Date: August 16, 2002

Remarks: 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 CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

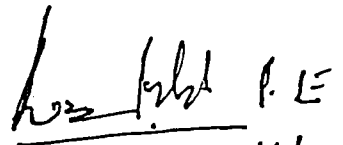
Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



Christopher Bennett
Lab Manager
Architectural Division

cc: Seasonshield Inc. (2)
A.L.I. (2)
Ramesh Patel P.E. (1)
File (1)



Ramesh Patel P.E.
Florida Reg# 20224
11/5/02