

Pocahontas Aluminum Company, Inc.

PO Box 756, 2001 Industrial Drive Pocahontas, AR 72455, USA

Certification ID:	757-119		
Company Code:	757		
Certification Date:	10/21/2015		
Revision No:	1		
Revision Date:	7/28/2022		
Expiration Date:	7/31/2025		
Product Rating Information:			

Model:	SHL21WW PVC Single Hung			
Operator Type:	Н			
Configuration:	EM/IM, GS-1/8" Ann IG			
Referenced Standard:	AAMA 1701.2-12 / FMHC&S Std. 3280.403			
Product Rating:	Wind Zone II @ 38 psf, 48x72			
Rated Dimensions:	Max Width: 48 in Max Height: 72 ir			

Qualifying Test information:

Test Report No:	ATI-E9099.03-501-47
Test Report Expiration:	7/31/2025

This Certification Authorization Report (CAR) is issued by Keystone Certifications, Inc. (KCI) after full validation review, and is based on a standardized evaluation of the product conducted by an independent accredited laboratory in accordance with the specified referenced standard. Actual fenestration product performance may vary based on many factors, including installation, condition of the wall/roof substrate and the age of the product and installation components.

This report indicates the product is eligible for the application of Keystone Certification Program certification labels. Licensee stipulates in affixing certification labels to products, that those products are representative of the specimen evaluated and documented for certification authorization. Only products bearing such a certification label shall be considered certified. The information in this report can be verified at www.keystonecerts.com

Authorized By:

Shaun Shaull Shaun Shaull 2022.07.28 07:06:14 -04'00'

Keystone Certifications, Inc. 145 Limekiln Rd, Suite 100B New Cumberland, PA 17070 Phone: 717-932-8500



Revision History

Rev #	Date	Description
0	10/21/2015	Initial Issuance
1	7/28/2022	Granted 3 Year Extension



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Revision No:	1	
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Expiration Date:	7/31/2025	
Product Rating Information:		
Model:	Model: SHL21WW PVC Single Hung	
Operator Type:	Н	

Configuration:	EM/IM			
Referenced Standard:	AAMA 1701.2-12 / FMHC&S Std. 3280.403			
Product Rating:	Wind Zone III @ 58 psf, 36x54			
Rated Dimensions:	Max Width:36 inMax Height:54 in			

Qualifying Test information:

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Authorized By:

Shaun Shaull Shaun Shaull 2022.07.28 07:07:45 -04'00' Keystone Certifications, Inc. 145 Limekiln Rd, Suite 100B New Cumberland, PA 17070 Phone: 717-932-8500



Revision History

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0	10/21/2015	Initial Issuance
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TEST REPORT

Report No.: E9099.03-501-47

Rendered to:

POCAHONTAS ALUMINUM COMPANY, INC. Pocahontas, Arizona

PRODUCT TYPE: PVC Single Hung Window SERIES/MODEL: SHL21WW

SPECIFICATIONS: AAMA 1701.2-12, Voluntary Standard for Utilization in Manufactured Housing for Primary Windows and Sliding Glass Doors.

AAMA 1704-01, Voluntary Standard for Egress Window Systems for Utilization in Manufactured Housing.

Test Dates :	06/22/15
Through:	06/24/15
Report Date:	07/31/15





1.0	Report Issued To:	Pocahontas Aluminum Co., Inc. 2001 Industrial Drive Pocahontas, Arizona 72455
2.0	Test Laboratory:	 Architectural Testing, Inc., a subsidiary of Intertek (Intertek- ATI) 1140 Lincoln Avenue Springdale, Pennsylvania 15144 724-275-7100

3.0 Project Summary:

- **3.1 Product Type**: PVC Single Hung Window
- 3.2 Series/Model: SHL21WW
- **3.3 Compliance Statement**: Results obtained are tested values and were secured by using the designated test method(s). The sample tested successfully met the performance requirements listed in the referenced specification(s).
- **3.4 Test Dates**: 06/22/2015 06/24/2015
- **3.5 Test Record Retention End Date**: All test records for this report will be retained until June 24, 2019.
- **3.6 Test Location**: Veka Inc. test facility in Fombell, Pennsylvania.
- **3.7 Test Sample Source**: The test specimens were provided by the client. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of four years from the test completion date.
- **3.8 Drawing Reference**: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix A. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Doug Merry Cornell Charles	Veka Inc. Veka Inc.
Joseph Allison	Intertek-ATI





4.0 Test Specification(s):

AAMA 1701.2-12, Voluntary Standard for Utilization in Manufactured Housing for Primary Windows and Sliding Glass Doors.

AAMA 1704-01, Voluntary Standard for Egress Window Systems for Utilization in Manufactured Housing.

Code of Federal Regulations, Part 3280 - *Manufactured Home Construction and Safety Standards*, Subpart D, Section 3280.305(c)(1)(ii)(B).

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimen #1:

Overall Area:	Width		Height		
2.2 m ² (24.0 ft ²)	millimeters	inches	millimeters	inches	
Overall size	1219	48	1829	72	
Sash size	1168	46	924	36-3/8	
Screen size	1181	46-1/2	895	35-1/4	

Test Specimen #2:

Overall Area:	Width		Height		
$2.1 \text{ m}^2 (22.2 \text{ ft}^2)$	millimeters	inches	millimeters	inches	
Overall size	914	36	1372	54	
Sash size	864	34	695	27-3/8	
Screen size	876	34-1/2	667	26-1/4	

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	Material	Description
Head, sill, jambs, fixed rail	PVC	Extruded

	Joinery Type	Detail
All corners	Mitered	Thermally welded
Fixed rail	Square-cut and coped	Fastened with four #8 x 2" truss head screws, two at each end, and sealed with a silicone sealant





5.0 Test Specimen Description: (Continued)

5.3 Sash Construction:

Sash Member	Material	Description
All rails and stiles	PVC	Extruded

_	Joinery Type	Detail
All corners	Mitered	Thermally welded

5.4 Weatherstripping:

Description	Quantity	Location
0.187" backed x 0.250" high	1 Dow	Ton rail bottom rail stilos
center fin pile	I KOW	Top Tall, bottolli Tall, Sules

5.5 Glazing: No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.

Test Specimen #1:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
5/8" IG	Rectangular- shaped steel, single sealed	1/8" annealed	1/8" annealed	The glass was set from the exterior against a silicone sealant and secured with rigid PVC glazing beads

Test Specimen #2:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
5/8" IG	Rectangular- shaped steel, single sealed	3/32" annealed	3/32" annealed	The glass was set from the exterior against a silicone sealant and secured with rigid PVC glazing beads

Location	Quantity	Dayligh	Class Dita	
Location	Quantity	millimeters	inches	Glass bite
Specimen #1 sash	1	1089 x 845	42-7/8 x 33-1/4	5/8"
Specimen #1 frame	1	1149 x 845	45-1/4 x 33-1/4	5/8"
Specimen #1 sash	1	784 x 616	30-7/8 x 24-1/4	5/8"
Specimen #1 frame	1	845 x 616	33-1/4 x 24-1/4	5/8"





5.0 Test Specimen Description: (Continued)

5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weepslot	9/16" wide by 5/32" high	2	Exterior sill face, one 2" in from each end.
Weepslot	9/16" wide by 5/32" deep	2	Interior sill track, one at each end.

5.7 Hardware:

Description	Quantity	Location	
Metal cam lock	2	Lock rail, one 10" in from each end with mating metal keepers on the fixed meeting rail.	
Metal surface mount tilt latch	2	Top rail, one at each end	
Metal tilt pin	2	Bottom rail, one at each end	
Block and tackle balance system	2	One per jamb	

5.8 Reinforcement:

Drawing Number	Location	Material
S-3832	Fixed rail, lock rail	Extruded aluminum

5.9 Screen Construction:

Frame Material	Corner Construction	Mesh Type	Mesh Attachment Method
Roll-formed aluminum	Square-cut and secured with snap-in plastic corner keys	Fiber	Flexible vinyl spline





6.0 Installation:

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/8" shim space. The nail fin perimeter of the window was sealed with a silicone sealant.

Location	Anchor Description	Anchor Location
Integral nail fin	#8 x 2" long truss head screws	Nominally spaced at 9" on center, and beginning 2" in from each corner, with an additional three screw cluster at each end of the fixed meeting rail





7.0 Test Results: The temperature during testing was 21°C (70°F). The results are tabulated as follows:

Test Specimen #1:

Title of Test	Results	Allowed	Note
Structural Performance,			
per ASTM E 330			
+1190 Pa (+25.0 psf)			
-595 Pa (-12.5 psf)	Pass	No damage	2, 3
Air Leakage,			
per ASTM E 283	1.5 L/s/m ²	2.5 L/s/m ²	
at 75 Pa (1.57 psf)	(0.30 cfm/ft ²)	(0.5 cfm/ft ²) max.	
Water Penetration,			
per ASTM E 547			
at 150 Pa (3.13 psf)	Pass	No leakage	1
Optional Performance (24 CFR 3280.305(c))			
Uniform Load Structural,			
per ASTM E 330			
+1815 Pa (+37.91 psf)			
-1815 Pa (-37.91 psf)	Pass	No damage	2, 3

Test Specimen #2:

Title of Test	Results	Allowed	Note
Structural Performance,			
per ASTM E 330			
+1190 Pa (+25.0 psf)			
-595 Pa (-12.5 psf)	Pass	No damage	2, 3
Air Leakage,			
per ASTM E 283	1.4 L/s/m ²	2.5 L/s/m ²	
at 75 Pa (1.57 psf)	(0.27 cfm/ft ²)	(0.5 cfm/ft ²) max.	
Water Penetration,			
per ASTM E 547			
at 150 Pa (3.13 psf)	Pass	No leakage	1
Optional Performance (24 CFR 3280.305(c))			
Uniform Load Structural,			
per ASTM E 330			
+2770 Pa (+57.85 psf)			
-2770 Pa (-57.85 psf)	Pass	No damage	2,3





7.0 Test Results: (Continued)

Test Specimen #2: (Continued)

AAMA 1704-01			
Clear Opening Width	848 mm (33-3/8")	510 mm (20")	
Clear Opening Height	610 mm (24")	610 mm (24")	
Clear Opening Area			
Locks and Latches	44 N (10 lbf)	90 N (20 lbf) max.	
Operable Sash	89 N (20 lbf)	90 N (20 lbf) max.	
Removable Screen	22 kg (0.5 lb)	9 kg (20 lb) max.	

Note 1: With and without insect screen.

Note 2: Loads were held for 10 seconds.

Note 3: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.



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Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI

Digitally Signed by: Joseph E. Allison

Joseph E. Allison Senior Technician

Digitally Signed by: Lynn George

Lynn George

Director – Regional Operations

JEA:sld

Attachments (pages): This report is complete only when all attachments listed are included. Appendix-A: Drawings (2) Complete drawings packet on file with Intertek-ATI

This report produced from controlled document template ATI 00497, revised 01/27/12.





Appendix A

Drawings

Note: Complete drawings packet on file with Intertek-ATI



