

	Document Title:	Doc No:	<b>FRM B1-02</b>	
	<b>Structural Performance Certification Authorization Report</b>	Rev No: 7	Page: 1	Of: 1
Required By: PRO B1-03				

CAR & Product ID Number: 757 - 103.0  
 Issue Date: 7/8/2013  
 Revision Date: 3/19/2019  
 Expiration Date: 4/7/2024  
 Company Code: 757

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.

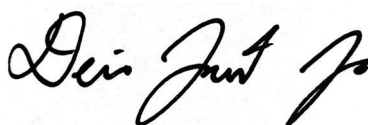
This report indicates the product is eligible for the application of Keystone Certification Program certification labels. Licensee stipulates in affixing certification labels to products, that those products are representative of the specimen evaluated and documented for certification authorization.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

Licensee Information:	Product Information:
Pocahontas Aluminum Company, Inc. 2001 Industrial Drive, PO Box 756 Pocahontas, AR 72455 USA	Model: SS46 PVC Single Slider XO Operator Type: HS Config: EM/IM Max Width: 72 Max Height: 48

Referenced Standard:	Product Rating:
AAMA/WDMA/CSA 101/I.S.2/A440-08	Class R-PG30 1816x1207 (72x48)-Type HS

Qualifying Test Information:	
Test Report No:	ATI-A9078.06-501-47
Test Report Expiration:	4/7/2024

**Authorized Signature:**



Dennis Fassnacht Jr.  
 2019.03.19 13:59:35  
 -04'00'

**Keystone Certifications, Inc.**  
 145 Limekiln Rd. Suite 100B  
 New Cumberland, Pennsylvania 17070  
 Phone: 717-932-8500  
 Fax: 717-932-8501

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	<b>Structural Performance Certification Authorization Report</b>	Rev No: 7	Page: 1	Of: 1
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<b>Licensee Information:</b>	<b>Product Information:</b>
Pocahontas Aluminum Company, Inc. 2001 Industrial Drive, PO Box 756 Pocahontas, AR 72455 USA	Model: SS46 PVC Single Slider 1/4-1/2-1/4 XOX Operator Type: HS Config: EM/IM, GS-1/8" Ann IG (F) Max Width: 108 Max Height: 48

<b>Referenced Standard:</b>	<b>Product Rating:</b>
AAMA/WDMA/CSA 101/I.S.2/A440-08	Class R-PG30 2731x1207* (108x48*)-Type HS

<b>Qualifying Test Information:</b>	
Test Report No:	ATI-A9078.06-501-47
Test Report Expiration:	4/7/2024

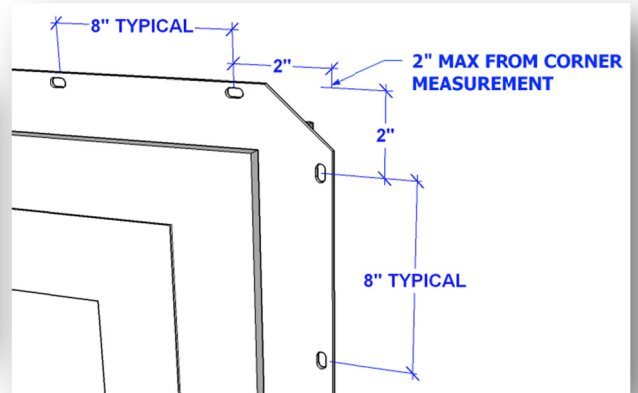
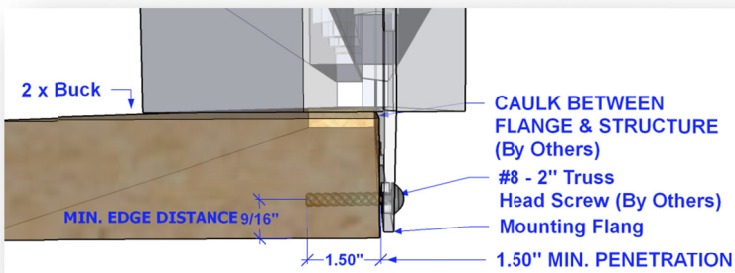
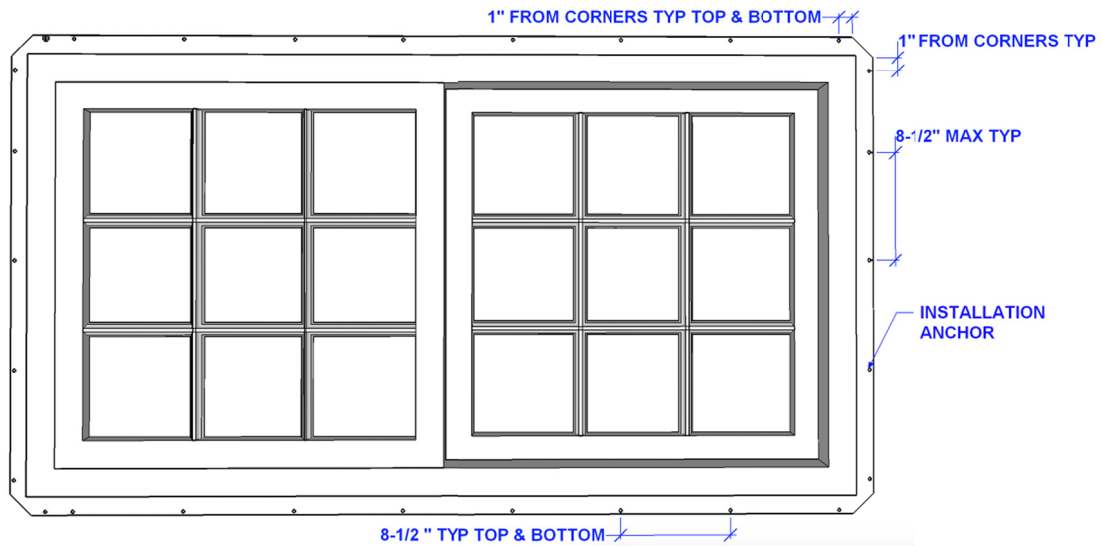
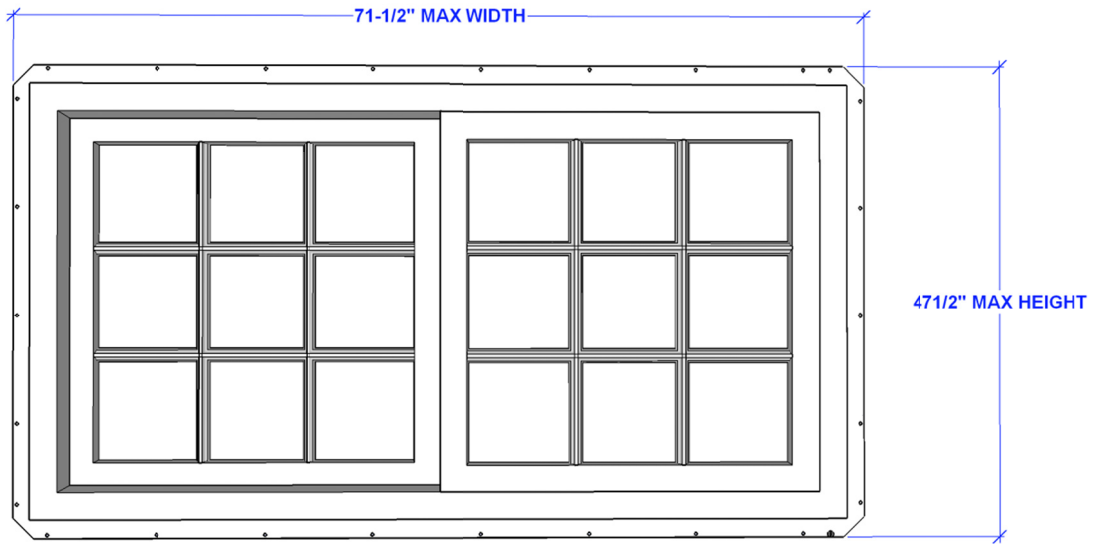
**Authorized Signature:**



Dennis Fassnacht Jr.  
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**Keystone Certifications, Inc.**  
 145 Limekiln Rd. Suite 100B  
 New Cumberland, Pennsylvania 17070  
 Phone: 717-932-8500  
 Fax: 717-932-8501

# INSTALLATION METHOD PVC (VINYL) SS46 SINGLE SLIDER WINDOW ELEVATION & ANCHOR LAYOUT



SCALE: NTS  
DWN BY: AMM  
CHK BY: KEA  
DATE: 10/13/15

TITLE:  
INSTALLATION METHOD  
PVC (VINYL) SS46 SINGLE SLIDER WINDOW  
ELEVATION & ANCHOR LAYOUT

PREPARED BY:  
POCAHONTAS ALUMINUM COMPANY, INC.  
2001 INDUSTRIAL DRIVE  
POCAHONTAS, AR 72455  
PH: 870-892-3689 FAX: 870-892-9858

REVISIONS			
NO.	DESCRIPTION	BY	DATE

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FROM POCAHONTAS  
ALUMINUM  
COMPANY, INC.



**TEST REPORT**

**Report No.:** A9078.06-501-47

**Rendered to:**

POCAHONTAS ALUMINUM COMPANY, INC.  
Pocahontas, Arizona

**PRODUCT TYPE:** PVC Horizontal Sliding Window, Type XO & XOX

**SERIES/MODEL:** SS46 Single Slider

**SPECIFICATION:** AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

<b>Summary of Results</b>		
<b>Title</b>	<b>Test Specimen #1 XO</b>	<b>Test Specimen #2 XOX</b>
Primary Product Designator	Class R-PG30 1816 x 1207 (72 x 48) - HS	Class R-PG30 2731 x 1207* (108 x 48*) - HS
Design Pressure	±1440 Pa (±30.08 psf)	±1440 Pa (±30.08 psf)
Air Infiltration	0.9 L/s/m <sup>2</sup> (0.17 cfm/ft <sup>2</sup> )	1.0 L/s/m <sup>2</sup> (0.20 cfm/ft <sup>2</sup> )
Water Penetration Resistance Test Pressure	220 Pa (4.60 psf)	220 Pa (4.60 psf)

**Test Completion Date:** 04/07/2011

Reference must be made to Report No. A9078.06-501-47, dated 06/06/13 for complete test specimen description and detailed test results.



**1.0 Report Issued To:** Pocahontas Aluminum Company, Inc.  
2001 Industrial Drive, P.O. Box 756  
Pocahontas, Arizona 72455-0756

**2.0 Test Laboratory:** Architectural Testing, Inc.  
1140 Lincoln Avenue  
Springdale, Pennsylvania 15144  
724.275.7100

**3.0 Project Summary:**

**3.1 Product Type:** PVC Horizontal Sliding Window, Type XO & XOX

**3.2 Series/Model:** SS46 Single Slider

**3.3 Compliance Statement:** Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings: Test Specimen #1: **Class R-PG30 1816 x 1207 (72 x 48) - HS**; Test Specimen #2: **Class R-PG30 2731 x 1207\* (108 x 48\*) - HS**.

This product was originally tested as the Veka Inc. Series/Model SS46WW, PVC Horizontal Sliding Window, Type XO & XOX and is a reissue of the original Report No. A9078.01-501-47. This report is reissued in the name of Pocahontas Aluminum Company, Inc., through written authorization by Veka Inc.

***General Note:** An asterisk (\*) next to the size designation indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.*

**3.4 Test Dates:** 04/06/2011 – 04/07/2011

**3.5 Test Location:** Veka Inc. test facility in Fombell, Pennsylvania. Calibration of test equipment was performed by Architectural Testing in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories".

**3.6 Test Sample Source:** The test specimens were provided by the client. Representative samples of the test specimen(s) will be retained by Architectural Testing for a minimum of four years from the test completion date.

**3.7 Drawing Reference:** The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

**3.8 List of Official Observers:**

<u>Name</u>	<u>Company</u>
Doug Merry	Veka Inc.
Cornell Charles	Veka Inc.
Joseph Allison	Architectural Testing, Inc.

#### 4.0 Test Specification(s):

AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

#### 5.0 Test Specimen Description:

##### 5.1 Product Sizes:

##### Test Specimen #1:

Overall Area: 2.2 m <sup>2</sup> (23.6 ft <sup>2</sup> )	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	1816	71-1/2	1207	47-1/2
Sash	886	34-7/8	1151	45-5/16
Screen	851	33-1/2	1124	44-1/4

##### Test Specimen #2:

Overall Area: 3.3 m <sup>2</sup> (35.5 ft <sup>2</sup> )	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	2731	107-1/2	1207	47-1/2
Sash (2)	73	26-7/8	1151	45-5/16
Screen	651	25-5/8	1124	44-1/4

*The following descriptions apply to all specimens.*

##### 5.2 Frame Construction:

Frame Member	Material	Description
Head, sill, jambs, fixed stile(s), roller track	PVC	Extruded

	Joinery Type	Detail
All corners	Mitered	Thermally Welded
Fixed stile	Square cut and coped	Fastened with four #8 x 2-1/2" flat head screws, two at each end
Roller track	Square cut	Snap fit

## 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" x 0.270" center fin pile	2 Rows	Bottom rail, top rail, jamb stile
0.187" x 0.270" center fin pile	1 Row	Lock stile
0.187" x 0.250" center fin pile	1 Row	Frame perimeter

### 5.5 Glazing:

Specimen #1 sash and fixed lite, Specimen #2 sash:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
5/8" IG	"U" shaped steel, single sealed	3/32" annealed	3/32" annealed	The sash were exterior glazed and the fixed lite was interior glazed. The glass was set against a double-sided adhesive tape and secured with rigid vinyl glazing beads.

Specimen #2 fixed lite:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
5/8" IG	"U" shaped steel, single sealed	1/8" annealed	1/8" annealed	The glass was set from the interior against a double sided adhesive tape and secured with rigid vinyl glazing beads.

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Specimen # 1 sash	1	816 x 1092	32-1/8 x 43	1/2"
Specimen # 1 fixed lite	1	819 x 1092	32-1/4 x 43	1/2"
Specimen #2 sash	2	622 x 1092	24-1/2 x 43	1/2"
Specimen #2 fixed lite	1	1267 x 1092	49-7/8 x 43	1/2"

## 5.0 Test Specimen Description: (Continued)

### 5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weepslot with open cell foam baffle	1" wide by 3/16" high	2	Exterior sill face, one 3" from each end.
Weepslot	1" wide by 1/4" long	2	Interior sill track, one at each end.
Weepslot	1" wide by 1/4" high	2	Sill intermediate wall, one at each end

### 5.7 Hardware:

Description	Quantity	Location
Composite sweep lock	2	Lock stile, one 9-1/2" from each end engaging an extruded slot in the fixed meeting stile
Dual metal rollers with molded housing	4	Bottom rail, one at each end

### 5.8 Reinforcement:

Drawing Number	Location	Material
S-047	Lock stile	Extruded aluminum
S-046	Fixed meeting stile	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 sealant. The sill was set into a bed of silicone sealant.

Location	Anchor Description	Anchor Location
Integral nailing fin	#8 x 2" truss head screw	Perimeter of frame through nailing fin located 8-1/2" on center, and beginning at each corner.

**7.0 Test Results:** The temperature during testing was 20°C (68°F). The results are tabulated as follows:

**Test Specimen #1:**

<b>Title of Test</b>	<b>Results</b>	<b>Allowed</b>	<b>Note</b>
<b>Operating Force,</b> per ASTM E 2068	Initiate motion: 53 N (12 lbf) Maintain motion: 44 N (10 lbf) Latches: N/A Locks: 22 N (5 lbf)	Report Only  900 N (20 lbf) max.  100 N (22.5 lbf) max.  100 N (22.5 lbf) max.	
<b>Air Leakage,</b> Infiltration per ASTM E 283 at 75 Pa (1.6 psf)	0.9 L/s/m <sup>2</sup> (0.17 cfm/ft <sup>2</sup> )	1.5 L/s/m <sup>2</sup> (0.3 cfm/ft <sup>2</sup> ) max.	1
<b>Water Penetration,</b> per ASTM E 547	N/A	N/A	3
<b>Uniform Load Deflection,</b> per ASTM E 330	N/A	N/A	3
<b>Uniform Load Structural,</b> per ASTM E 330	N/A	N/A	3
<b>Forced Entry Resistance,</b> per ASTM F 588, Type: A - Grade: 10	Pass	No entry	
<b>Thermoplastic Corner Weld</b>	Pass	Meets as stated	
<b>Deglazing,</b> per ASTM E 987 <b>Operating direction,</b> <b>320 N (72 lbf)</b>	Pass	Meets as stated	
<b>Remaining direction,</b> <b>230 N (52 lbf)</b>	Pass	Meets as stated	

**7.0 Test Results:** (Continued)

**Test Specimen #1:** (Continued)

Title of Test	Results	Allowed	Note
<b>Optional Performance</b>			
<b>Water Penetration,</b> per ASTM E 547 at 220 Pa (4.60 psf)	Pass	No leakage	2
<b>Uniform Load Deflection,</b> per ASTM E 330 taken at the exterior meeting stile +1440 Pa (+30.08 psf) -1440 Pa (-30.08 psf)	23.3 mm (0.92") 17.3 mm (068")	Report Only	4, 5, 6
<b>Uniform Load Structural,</b> per ASTM E 330 taken at the exterior meeting stile +2160 Pa (+45.11 psf) -2160 Pa (-45.11 psf)	1.8 mm (0.07") 1.8 mm (0.07")	4.6 mm (0.18") max. 4.6 mm (0.18") max.	5, 6

**Test Specimen #2:**

Title of Test	Results	Allowed	Note
<b>Operating Force,</b> per ASTM E 2068	Initiate motion: 53 N (12 lbf) Maintain motion: 44 N (10 lbf) Latches: N/A Locks: 22 N (5 lbf)	Report Only 900 N (20 lbf) max. 100 N (22.5 lbf) max. 100 N (22.5 lbf) max.	
<b>Air Leakage,</b> Infiltration per ASTM E 283 at 75 Pa (1.6 psf)	1.0 L/s/m <sup>2</sup> (0.20cfm/ft <sup>2</sup> )	1.5 L/s/m <sup>2</sup> (0.3 cfm/ft <sup>2</sup> ) max.	1
<b>Water Penetration,</b> per ASTM E 547	N/A	N/A	3
<b>Uniform Load Deflection,</b> per ASTM E 330	N/A	N/A	3
<b>Uniform Load Structural,</b> per ASTM E 330	N/A	N/A	3
<b>Forced Entry Resistance,</b> per ASTM F 588, Type: A - Grade: 10	Pass	No entry	
<b>Thermoplastic Corner Weld</b>	Pass	Meets as stated	

**7.0 Test Results:** (Continued)

<b>Deglazing,</b> per ASTM E 987 Operating direction, 320 N (72 lbf) Remaining direction, 230 N (52 lbf)	Pass	Meets as stated	
	Pass	Meets as stated	
<b>Optional Performance</b>			
<b>Water Penetration,</b> per ASTM E 547 at 220 Pa (4.60 psf)	Pass	No leakage	2
<b>Uniform Load Deflection,</b> per ASTM E 330 taken at the right exterior meeting stile +1440 Pa (+30.08 psf) -1440 Pa (-30.08 psf)	30.0 mm (1.18") 19.0 mm (0.75")	Report Only	4, 5, 6
<b>Uniform Load Structural,</b> per ASTM E 330 taken at the right exterior meeting stile +2160 Pa (+45.11 psf) -2160 Pa (-45.11 psf)	2.5 mm (0.10") 1.5 mm (0.06")	4.6 mm (0.18") max. 4.6 mm (0.18") max.	5, 6

*Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.*

*Note 2: With and without insect screen.*

*Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.*

*Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

*Note 5: Loads were held for 10 seconds.*

*Note 6: 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.*

This report is reissued in the name of Pocahontas Aluminum Company, Inc., through written authorization of Veka Inc. to whom the original report was rendered. The original Veka Inc. Report No. is A9078.01-501-47.

The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made. 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 Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

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Joseph E. Allison  
Senior Technician

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Lynn George  
Director – Regional Operations

JEA:sld

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Drawings (2) Complete drawings packet on file with Architectural Testing Inc.

**Appendix A**  
**Alteration Addendum**

*Note: No alterations were required.*



**Architectural Testing**

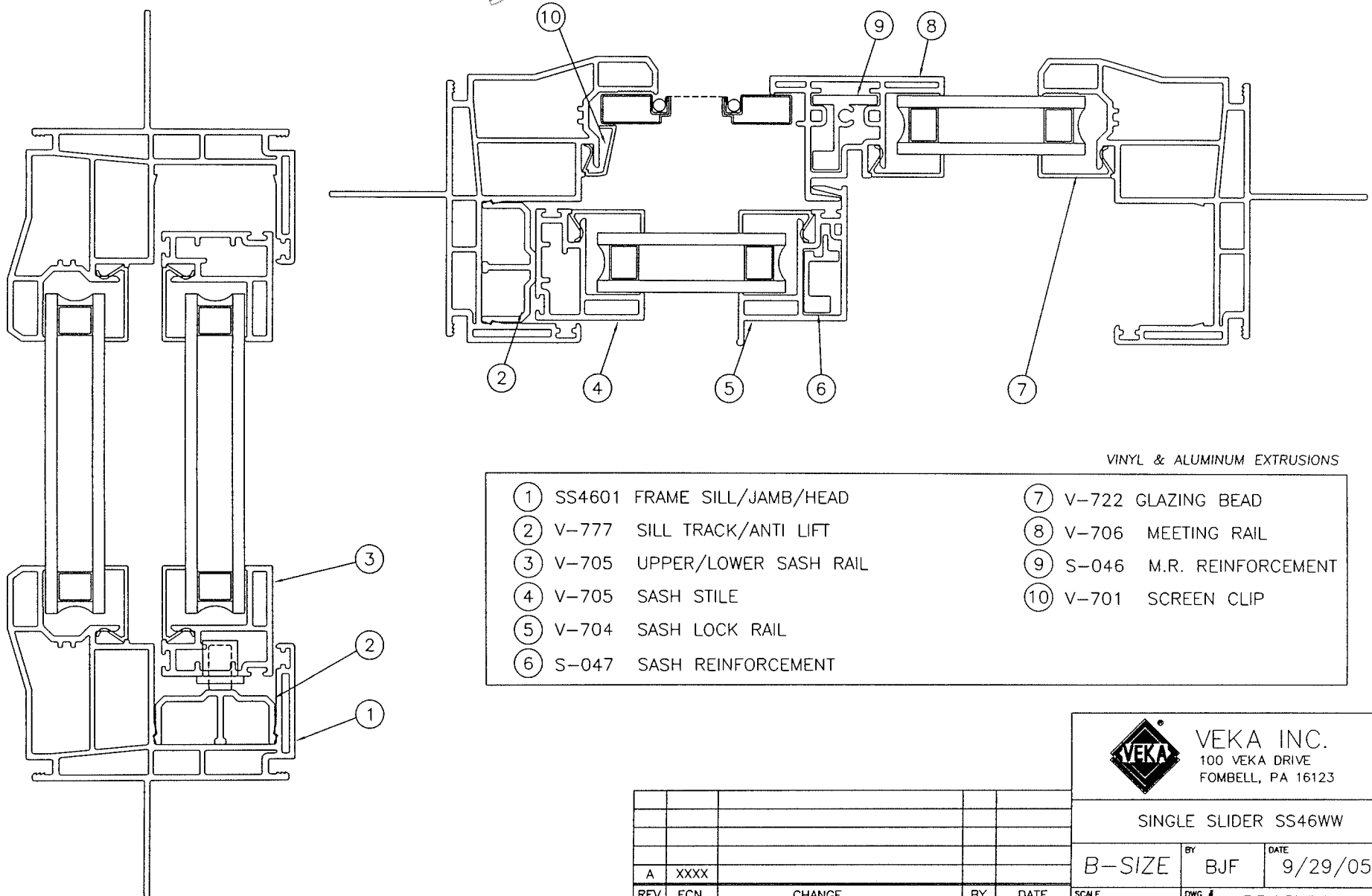
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Report Date: 06/06/13  
Test Record Retention End Date: 04/07/15

## **Appendix B**

### **Drawings**

Test sample complies with these details.  
Deviations are noted.

Report# A9078  
Date 9/10/11 Tech Jean



VINYL & ALUMINUM EXTRUSIONS

- |                               |                            |
|-------------------------------|----------------------------|
| ① SS4601 FRAME SILL/JAMB/HEAD | ⑦ V-722 GLAZING BEAD       |
| ② V-777 SILL TRACK/ANTI LIFT  | ⑧ V-706 MEETING RAIL       |
| ③ V-705 UPPER/LOWER SASH RAIL | ⑨ S-046 M.R. REINFORCEMENT |
| ④ V-705 SASH STILE            | ⑩ V-701 SCREEN CLIP        |
| ⑤ V-704 SASH LOCK RAIL        |                            |
| ⑥ S-047 SASH REINFORCEMENT    |                            |

CUT LOGIC : cut\_chart\_SS46WW.xls



**VEKA INC.**  
100 VEKA DRIVE  
FOMBELL, PA 16123

SINGLE SLIDER SS46WW

SCALE **B-SIZE** BY **BJF** DATE **9/29/05**

SCALE **FULL** DWG # **SS46WW (LA3200)**

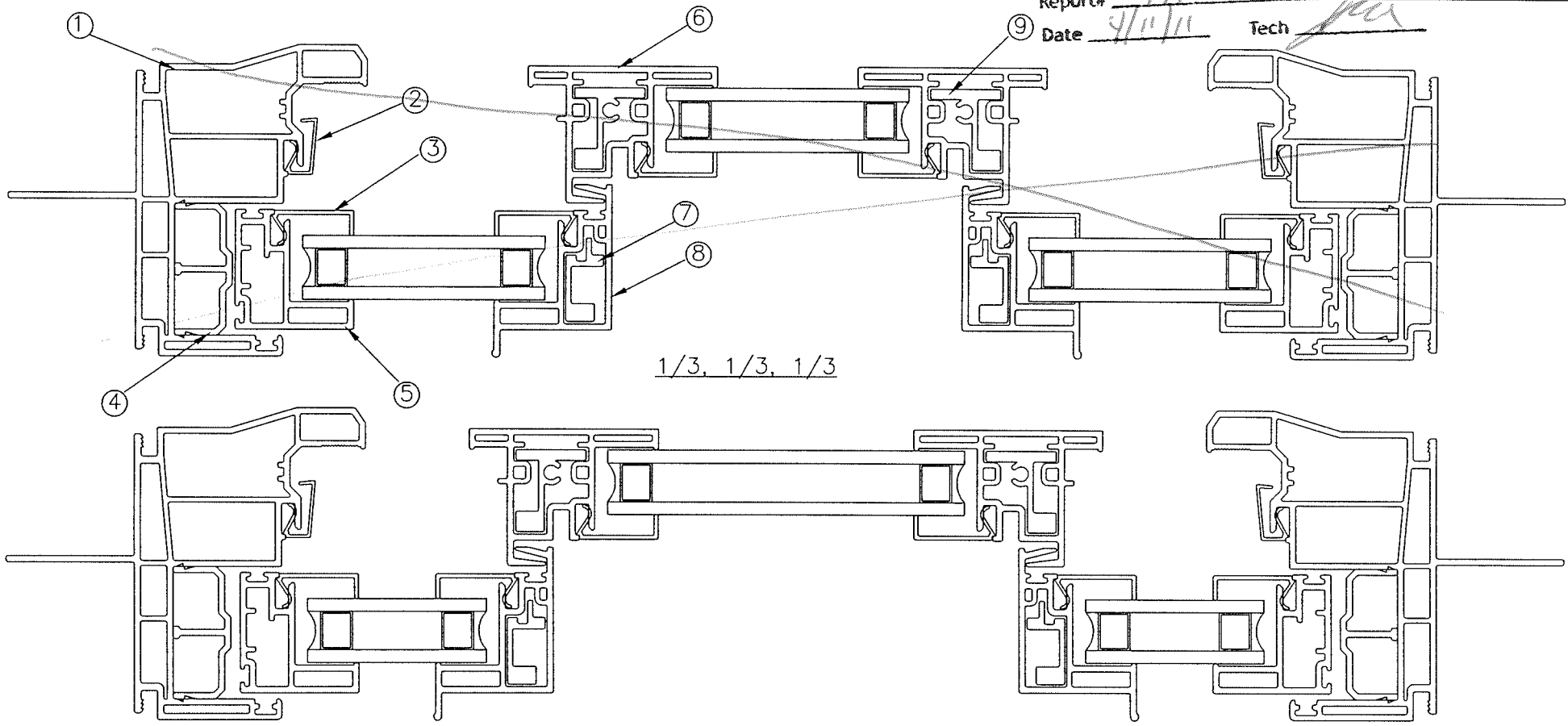
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Test sample conforms with these details.  
Deviations are noted.

Report# A9078  
Date 4/11/11 Tech [Signature]



1/3, 1/3, 1/3

1/4, 1/2, 1/4

- ① SS4601 COMMON FRAME
- ② V-701 SCREEN CLIP
- ③ V-722 GLAZING BEAD
- ④ V-777 SILL TRACK
- ⑤ V-705 SASH STILE
- ⑥ V-706 MEETING RAIL
- ⑦ S-047 SASH REINFORCEMENT
- ⑧ V-704 INTERLOCK
- ⑨ S-046 MEETING RAIL REINFORCEMENT

A	XXXX				
REV	ECN.	CHANGE	BY	DATE	



**VEKA INC.**  
100 VEKA DRIVE  
FOMBELL, PA 16123

SINGLE SLIDER SS46WW  
1/3 1/3 1/3 & 1/4 1/2 1/4 LAYOUTS

B-SIZE BY BJB DATE 09/30/05

SCALE FULL DWG # SS46WW-XOX (LA3250)

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