

SUBMITTAL PACKAGE

SS46 – Single Slider Window

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Light Commercial Structural Report	Pending
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SS46 Single Slider

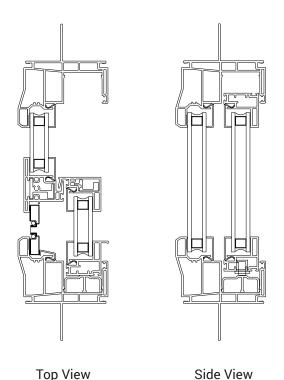
New Construction

Locally Owned & Operated



FEATURES and BENEFITS

- Made in the USA. 100% U.S. components
- Lead free
- EnergyStar® rated and labeled
- Aesthetically-pleasing exterior frame design
- All-welded frame and sash
- DP50 performance levels
- Dual weatherstripping
- Easy drywall pass-through capability
- Full complement of accessory profiles
- Full family of products (hung, slider, and picture)
- Factory applied WM-180 brick mould or 5/4 x4 exterior trim available with nail fin
- Full 1½" integral nail fin
- 2%" frame width
- Optimum designed aluminum sash reinforcement
- Long reach interlock. No colliding or missing
- Sweep lock, no keeper needed. Passes forced entry



PERFORMANCE

THERMAL IN	SULATION	1	
GLASS	Uc Value	R Value	SHGC
Low-E 270	0.29	3.49	0.27
Low-E 366	0.29	3.49	0.20
Low-E 366 w/ i89	0.25	4.00	0.20

STRUCTURAL DATA	
Air Infiltration @ 25mph	0.10 cfm/ft ²
Water Penetration	7.50 psf
Uniform Loads	+/- 75.00 psf

AAMA RATING: PG50-HS













KEYSTONE CERTIFICATIONS, INC. 564 OLD YORK ROAD, SUITE 5 ETTERS, PA 17319 / PHONE 717-932-8500

Notice of Product Certification Authorization

National Fenestration Rating Council

Issued To:

Manufacturer: Custom Vinyl Products LLC

Address: 260 Enterprise Drive

New Port News

VA

23603

Man'f Code CST

Cert Date: 6/14/2012

Certification Number
8425
Product Line Number
CST - K - 005
Revision Date
8/27/2015

The Following NFRC Product Line Has Been Authorized For Certification:

Model / Series: SS46 Single Slider

Operator Type: HSOX

Frame Type: VI

Sash Type: VI

Exp. Date: 7/18/2018

Ratings Authorized For Certification:

Rating	Property	Authorized
NFRC 100		V
NFRC 200	Solar Heat Gain Coefficient	V
NFRC 200	Visible Light	V
NFRC 400	Air Leakage	V
NFRC 500	Condensation Resistance	V

Fenestration products are not NFRC Certified unless manufactured and labeled in accordance with the current version of NFRC-700, Product Certification Program requirements.

This is a cover sheet for an NFRC Certification Authorization Report (CAR) the corresponding CAR may be downloaded for printing at www.nfrc.org. The Manufacturer is authorized to label the options listed in the corresponding CAR Please notify Keystone of any errors or omissions within 10 days of receipt.

Due diligence was used in authorizing these products for certification. By accepting this report the licensee agrees to hold harmless and indemnify Keystone Certifications, Inc. from all claims or liabilities which may arise based on this certification authorization. Certification authorization is based on NFRC program requirements and simulation and test reports from accredited laboratories.



NFRC Product Certification Authorization Report

Manufacturer:	: Custom Vinyl Products, LLC	Pro	Product Series:	ries: SS46 Single Slider		Simulation Lab:	Lab: SATI		Initial Cert. Date:	. Date:	06/14/2012	112		
Street: 260	260 Enterprise Drive	Pro	Product Type:	Ï		Sim. Report #:	t#: D9546.04-116-45		Re-Certification Date:	cation		08/27/2015	2	
City/State/Zip:	Newport News, VA 23603	Air	Air Leakage:	e: ≤ 0.3	Sin	Sim. Report Date:	: Date: 06/29/2015	_	Revised Date:		06/29/2015			
Print Date:	08/27/2015				Te	Test Date:	05/03/2013	_	Expiration Date:	Date:	07/18/2018	918		
CPD Number: CST-														
Status Product Num	Status Product Num. Manufacturer Code	Frame/ Sash	Glaz	Low-E (Surface)	Gap Width(s)	Spacer Gap Fill	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC VT	5	Cond. Res.
00019-00001	E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG	NIMI	2	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	z	ALL DESCRIPTION OF THE PROPERTY OF THE PROPERT	C T	0.30	0:30	0.57	29
00019-00002	E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG	NIVI	7	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	O	0.75	CL	0.30	0.27	0.51	29
00019-00003	E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG	NIVI	7	0.037(2)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	S	0.75	CL	0.30	0.27	0.51	29
00020-00001	E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG	NIVI	7	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	z		C C	0.29	0.22	0.53	09
00020-00002	E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG	NIVI	7	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	O	0.75	7	0.29	0.20	0.47	09
00020-00003	E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG	NIVI	7	0.022(2)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	S	0.75	CL	0.29	0.20	0.47	09
00021-00001	E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG	NIVI	7	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	z		ر ا	0.29	0:30	0.56	29
00021-00002	E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG	NIVI	7	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	O	0.75	C T	0.29	0.27	0.50	29
00021-00003	E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG	VIVI	7	0.037(2)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	S	0.75	5	0.29	0.27	0.50	29
00022-00001	E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG	NIVI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	z		ر ا	0.29	0.22	0.52	59
00022-00002	E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG	NIVI	2	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	O	0.75	5	0.29	0.20	0.46	69
00022-00003	E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG	NIV	7	0.022(2)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	S	0.75	C	0.29	0.20	0.46	29
00023-00001	E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG	NIVI	7	0.022(2),0.149(4)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	z		CL	0.25	0.22	0.51	48
00023-00002	E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG	NIVI	2	0.022(2),0.149(4)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	ŋ	0.75	ر ا	0.25	0.20	0.46	48
00023-00003	E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG	NIVI	2	0.022(2),0.149(4)	0.563	SS-D	Fill 1: ARG/AIR (90/10)	S	0.75	CL	0.25	0.20	0.46	48
00024-00001	E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG	NIVI	2	0.022(2),0.149(4)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	z		7 7	0.25	0.22	0.51	47
00024-00002	E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG	NIVI	7	0.022(2),0.149(4)	0.500	SS-D	Fill 1: ARG/AIR (90/10)	O	0.75	ر ا	0.25	0.20	0.45	47

NFRC Product Certification Authorization Report



citizentialist incompositions, v. 20000	All Leo	All Leakage:	≥ 0.3	,	т. керо	oim. Report Date: 06/29/2015	01/07/67/00	_	Kevised Date: 06/29/2015	.: 00/28	1/2015		
Print Date: 08/27/2015				-	est Date:	Test Date: 05/03/2013	13		Expiration Date: 07/18/2018	ate: 07	7/18/2018		
						ions, Inc.							
Status Product Num. Manufacturer Code	Frame/ G Sash L	Slaz L	Frame/ Glaz Low-E (Surface) Sash Lyrs	Gap Width(s) Spacer Gap Fill	Spacer	Gap Fill		Grids	Grids Dividers Tint U-Factor SHGC VT	nt U-Fa	ctor SHC	SC VT	Cond. Res.
00024-00003 E366 / ARG90 / i89 (3MM/3MM) - 3/4" VIV/I	(4	0	0.022(2),0.149(4)	0.500	SS-D	Fill 1: ARG	SS-D Fill 1: ARG/AIR (90/10) S 0.75 CL 0.25	S	0.75 CI	0.25		0.20 0.45 47	47

Baseline Information

Test Report Number	C6242.08-116-46
Standard U-Value	0.266
Tested U-Value	0.273
Test Size	1200mm x 1499mm
Test Date	05/03/2013
Test Lab	TATI

Comments: 90% Argon, Single Probe.

I hereby certify that all requirements for NFRC Certification Authorization have been met and that the above information is true and correct, to the best of my knowledge.

Authorized IA Signature:

-04'00'





TEST REPORT

Report No.: E8504.01-501-47

Rendered to:

VEKA INC. Fombell, Pennsylvania

PRODUCT TYPE: PVC Horizontal Sliding Window, Type XO **SERIES/MODEL**: SS46/57WW

SPECIFICATION(S): AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights

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

Title	Summary of Results
AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11	Class R-PG50 1829 x 1219 (72 x 48)-HS
Design Pressure	±2400 Pa (±50.13 psf)
Air Infiltration	$0.5 \text{ L/s/m}^2 (0.10 \text{ cfm/ft}^2)$
Canadian Air Infiltration/Exfiltration Level	A2
Water Penetration Resistance Test Pressure	360 Pa (7.52 psf)

Test Completion Date: 08/05/15

Reference must be made to Report No. E8504.01-501-47, dated 08/18/15 for complete test specimen description and detailed test results.



Test Report No.: E8504.01-501-47
Architectural Testing Revision 1: 08/31/15

Report Date: 08/18/15 Page 1 of 8

1.0 Report Issued To: Veka Inc.

100 Veka Drive

Fombell, Pennsylvania 16123-0250

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 Horizontal Sliding Window, Type XO

3.2 Series/Model: SS46/57WW

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimen tested successfully met the performance requirements for a **Class R-PG50 1829 x 1219 (72 x 48)-HS** rating.

3.4 Test Dates: 06/01/15 - 08/05/15

3.5 Test Record Retention End Date: All test records for this report will be retained until August 5, 2019.

- **3.6 Test Location**: Veka Inc. test facility in Fombell, Pennsylvania. Calibration of test equipment was performed by Intertek-ATI in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories".
- **3.7 Test Specimen Source**: The test specimen was provided by the client. Representative samples of the test specimen(s) will be retained 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 C. Any deviations are documented herein or on the drawings.

Company

3.9 List of Official Observers:

Nama

Name	Company
Doug Merry	Veka Inc.
Cornell Charles	Veka Inc.
Joe Allison	Intertek-ATI



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4.0 Test Specification(s):

AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights

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:

Overall Area:	Wie	dth	Hei	ght
1.8 m ² (19.3 ft ²)	millimeters	inches	millimeters	inches
Overall size	1829	72	1219	48
Sash size	911	35-7/8	1162	45-3/4
Screen size	870	34-1/4	1137	44-3/4

5.2 Frame Construction:

Frame Member	Material		Description
Head, sill, sill extender, jambs, fixed stile, roller track	PVC	Extruded	

	Joinery Type	Detail
All corners	Mitered	Thermally welded
Fixed stile	Coped/butt type	Fastened with four #8 x 3" truss head screws, two at each end and sealed with a silicone sealant
Sill extender	Square-cut	Sealed with a silicone sealant
Roller track	Square-cut	Snap-in

5.3 Sash Construction:

Sash Member	Material	Description
All rails and stiles	PVC	Extruded



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5.0 Test Specimen Description: (Continued)

5.3 Sash Construction: (Continued)

	Joinery Type	Detail
All corners	Mitered	Thermally welded

5.4 Weatherstripping:

Description	Quantity	Location
0.187" backed x 0.270" high center fin pile	1 Row	Sash rails and stiles, fixed meeting stile

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.

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
3/4" IG	Rectangular shaped steel, single sealed	1/8" annealed	1/8" annealed	The sash glass was exterior glazed and the fixed lite was interior glazed. The glass was set against a silicone sealant and secured with rigid vinyl glazing beads.

T Ai	Ourantitus	Dayligh	Glass Bite	
Location	Quantity	millimeters	inches	Glass bite
Sash	1	822 x 1073	32-3/8 x 42-1/4	1/2"
Frame	1	819 x 1105	32-1/4 x 43-1/2	1/2"

5.6 Drainage:

Drainage Method	Size	Quantity	Location
YAYl - 4i +l- flore	1-1/4" wide	2	Exterior sill face, one 3-1/2" in from
Weepslot with flap	by 5/32" high		each end
Weepslot	1-1/4" wide by 1/4" high	2	Interior sill track, one at each end
Weepslot	1" wide by 3/8" high	2	Intermediate sill wall, one at each end



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5.0 Test Specimen Description: (Continued)

5.7 Hardware:

Description	Quantity	Location
Metal cam lock	2	Lock stile, one 9-1/2" in from each end mating with metal keeper on the fixed stile
Dual metal rollers with plastic housing	2	Bottom rail, one at each end

5.8 Reinforcement:

Drawing Number	Location	Material
S-065	Fixed meeting stile	Extruded aluminum
RFSE4646AOM	All stiles and rails	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		Nominally spaced at 7-1/2" on
		center, beginning at each corner





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

Title of Test	Results	Allowed	Note
	Initiate motion:		
	67 N (15 lbf)	Report Only	
Operating Force,	Maintain motion:		
per ASTM E 2068	62 N (14 lbf)	90 N (20 lbf) max.	
	Locks:		
	22 N (5 lbf)	100 N (22.5 lbf) max.	
Air Leakage,			
Infiltration per ASTM E 283	0.5 L/s/m ²	1.5 L/s/m ²	
at 75 Pa (1.57 psf)	(0.10 cfm/ft^2)	$(0.3 \text{ cfm/ft}^2) \text{ max.}$	1
Air Leakage,			
Exfiltration per ASTM E 283	0.8 L/s/m ²	1.5 L/s/m ²	
at 75 Pa (1.57 psf)	(0.15 cfm/ft^2)	$(0.3 \text{ cfm/ft}^2) \text{ max.}$	11
Canadian Air			
Infiltration/Exfiltration Level	A2	N/A	
Water Penetration,			
per ASTM E 547	N/A	N/A	3
Uniform Load Deflection,			
per ASTM E 330	N/A	N/A	3
Uniform Load Structural,			
per ASTM E 330	N/A	N/A	3
Forced Entry Resistance,			
per ASTM F 588,			
Type: A - Grade: 10	Pass	No entry	
Thermoplastic Corner Weld	Pass	Meets as stated	
Deglazing,			
per ASTM E 987			
Operating direction,			
320 N (72 lbf)	Pass	Meets as stated	
Remaining direction,			
230 N (52 lbf)	Pass	Meets as stated	



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7.0 Test Results: (Continued)

Title of Test	Results	Allowed	Note		
Optional Performance					
Water Penetration,					
per ASTM E 547					
at 360 Pa (7.52 psf)	Pass	No leakage	2		
Uniform Load Deflection,					
per ASTM E 330					
Deflections taken at the fixed					
meeting stile					
+2400 Pa (+50.13 psf)	25.0 mm (0.99")				
-2400 Pa (-50.13 psf)	19.8 mm (0.78")	Report Only	4, 5, 6		
Uniform Load Structural,					
per ASTM E 330					
Permanent sets taken at					
the fixed meeting stile					
+3600 Pa (+75.19 psf)	4.0 mm (0.16")	4.3 mm (0.17") max.			
-3600 Pa (-75.19 psf)	0.8 mm (0.03")	4.3 mm (0.17") 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.





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Intertek-ATI will service this report for the entire test record retention period. Test records 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 ARCHITECTURAL TESTING, INC.

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: Alteration Addendum (1) Appendix-B: Location of Air Seal (1)

Appendix-C: Drawing(s) (2) Complete drawings packet on file with Intertek-ATI.



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Revision Log

<u>Rev. #</u>	<u>Date</u>	Page(s)	Revision(s)
1	08/31/15	Page 4	Corected reinforcement drawing
			numbers



Test Report No.: E8504.01-501-47
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Appendix A

Alteration Addendum

Note: No alterations were required.

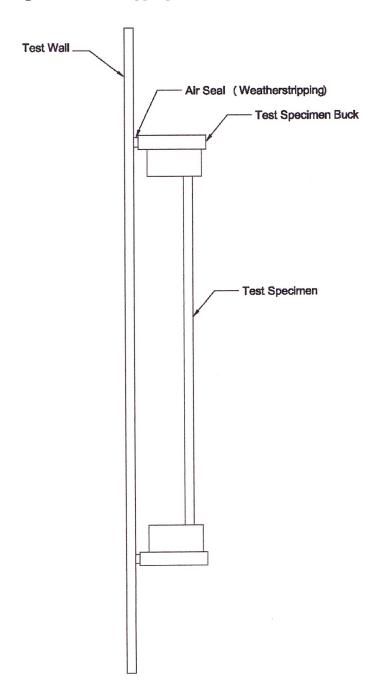




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Appendix B

Location of Air Seal: The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.





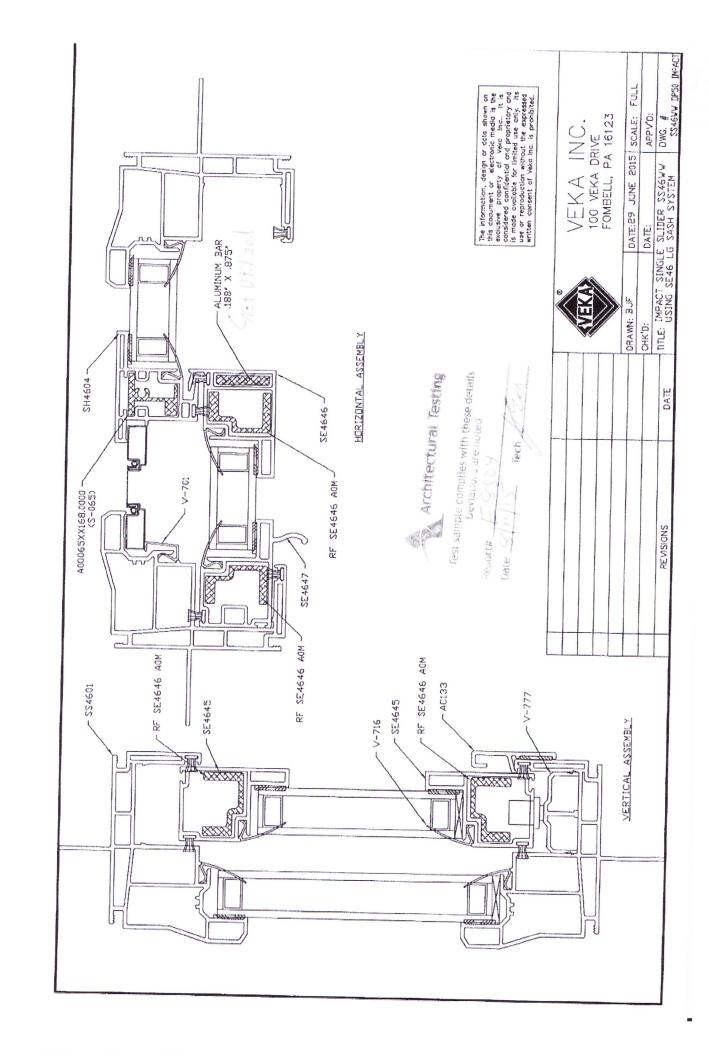


Report Date: 08/18/15

Appendix C

Drawing(s)

Note: Complete drawings packet on file with Intertek-ATI



CVP WINDOWS & DOORS

Limited Lifetime Warranty

Windows and sliding patio doors manufactured by *Custom Vinyl Products, LLC Windows and Doors* are guaranteed to be free of defects in material and workmanship under normal use and conditions. This Limited Warranty extends from the first date of purchase to the original owner and is subject to the terms and conditions stated herein:

- Vinyl components will be free from blistering, peeling, flaking, rotting, yellowing, or corrosion for the life of the product with the following exception:
 - Painted vinyl finishes 10 years
 - Euroview vinyl products 25 years
- ❖ There will be no material obstruction of vision on the internal surfaces of the insulated glass unit caused by seal failure for a period of 25 years with the following exceptions:
 - Laminated glass 5 years
 - Architectural shaped glass 10 years
 - Euroview product glass 10 years
- Component parts will be covered for a period of 2 years with the following exceptions:
 - Motorized awning operators 1 year
 - Screens 90 days

The terms of this Limited Warranty exclude failures which are a result of or involve:

- Improper installation
- ❖ Accident, negligence, abuse, alteration, or improper use
- Excessive exposure to heat and cold outside of normal conditions
- Exposure to caustic agents
- Torn or damaged screens
- Glass breakage for any reason
- Corrosion of non-vinyl components in coastal areas, unless product is assembled with appropriate stainless steel hardware
- Condensation on external surfaces
- * Failures caused by movement, expansion, or contraction of building or building components

This Limited Warranty covers materials only, and Custom Vinyl Products, LLC does not assume any expense or responsibility involved with the removal or reinstallation of replacement parts or any indirect, consequential, or incidental damage.



CUSTOM VINYL PRODUCTS, LLC

WINDOW INSTALLATION INSTRUCTIONS

- 1) Check that rough opening is between ½" to ¾" larger than the dimensions of the window, height and width.
- 2) Cut house wrap at 45 degree angle from top corners, about 6", and tack up out of the way.
- 3) Place wood shims in bottom right hand corner of the window opening.
- 4) Apply continuous "" bead of silicone based caulk to the inside of the nailing flange on the sides and top only.
- 5) Place window unit in the opening. **Sash must be locked during installation.** Rest window against shims in the right hand corner.
- 6) Attach the window using 1 ½" galvanized roofing nails through upper right side of nail fin. Use pre-punched nail slots. Never use automated nailing devices.
- 7) Place 2 foot level against left side of jamb and lift left side of window into level position.
- 8) Fasten head jamb.
- 9) Shim left and right side of jambs as to maintain a 1/16" continuous margin between sash and frame.
- 10) Fasten left side of jamb.
- 11) Attach the remainder of the unit approximately every other nail slot.
- 12) Check sash for easy operation. Check margins between sash and frame along the sides as well as top and bottom.
- 13) Apply 4" window flashing tape around the perimeter of the window, sides first then top. **Do not tape the bottom of the window.**
 - **FOR FURTHER FLASHING INSTRUCTIONS GO TO CUSTOMVINYL.NET

CAUTION: GENERAL CONTRACTORS

- Keep sill area free of all debris. Do not allow brick or mortar to touch edges of window frame. Allow 1/8" gap and seal with caulk.
- Never use expandable foam insulation between window and rough opening. Use bat insulation.
- Window sash must always be locked during installation.

OPERATING INSTRUCTIONS

- 1) ALWAYS raise the sash before attempting to tilt.
- 2) Sash removal: Raise sash, tilt 90 degrees, and lift at each corner.
- 3) If the sash will not move up or down, remove sash as instructed above and repeat the process.

DuPont™ Flashing Systems Installation Guidelines

Installation Methods for DuPont™ Flashing System <u>AFTER</u> Water-Resistive Barrier (WRB) is Installed

Integral Flanged Window AFTER Water-Resistive Barrier (WRB)

Method applies to following product:

- DuPont™ StraightFlash™
- DuPont™ FlexWrap™

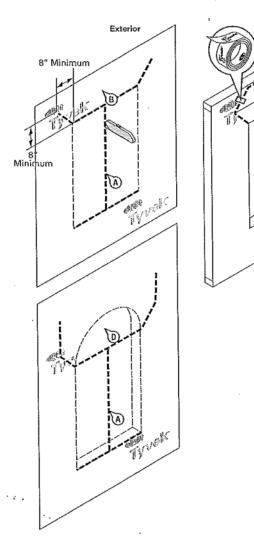
STEP 1

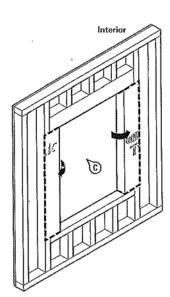
Prepare water-resistive barrier for window installation:

- A. Make an "I-Cut" (Standard I-Cut) in the WRB (modified I-Cut is also accepted). For an "I-Cut" begin with a horizontal cut across the bottom and the top of the window frame (for round top windows, the cut should begin 2" above the muli joint [see D]). From the center cut straight down to the sill.
- B. Cut two 45 degree slits a minimum of 8" from the corner of the header to create a flap above the rough opening to expose sheathing or framing members to allow head flashing installation (see step 5). Flip head flap up and temporarily secure with DuPont** Tyvek® Tape. Some windows and flashing widths may require longer slits.**

Exterior

C. Fold side flaps into rough opening, cut excess flaps, and secure. Note: Side flaps should cover interior facing framing stud.

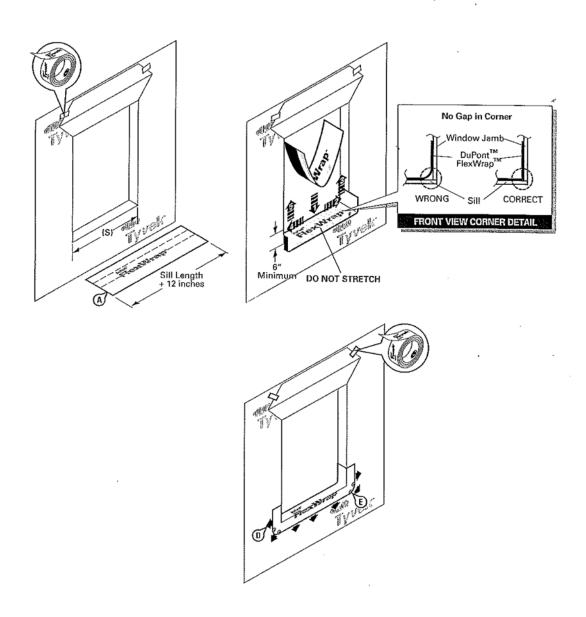




STEP 2 (optional / not required)

- A. Cut DuPont™ FlexWrap™ at least 12" longer than width of rough opening sill (S).
- B. Remove first piece of release paper, cover horizontal sill by aligning inside edge of sill, and adhere into rough opening along sill and up jambs (min. 6" on each side).
- C. Remove second release paper.
- D. Flex DuPont™ FlexWrap™ at bottom corners onto face of wall.
- E. SECURE EDGES OF DUPONT™ FLEXWRAP™ WITH MECHANICAL FASTENERS. i.e., DuPont™ Tyvek® Wrap Caps (nails, screws, staples).

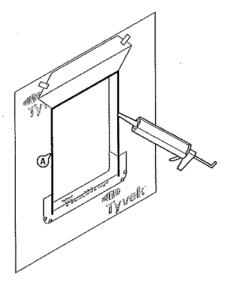
Note: Secure fastener along the bottom outer edge of the DuPont™ FlexWrap™ at flexed corners.



DuPont™ Flashing Systems Installation Guidelines

STEP 3

A. Apply continuous bead of caulk at the window head and jambs to wall or back side of window mounting flange. DO NOT APPLY CAULK ACROSS BOTTOM SILL FLANGE to allow for drainage.

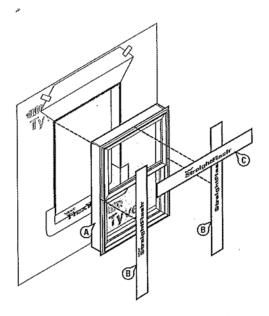


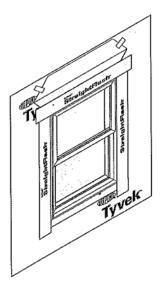
FOR RECTANGULAR WINDOWS

STEP 4

A. Install window according to manufacturer's instructions.

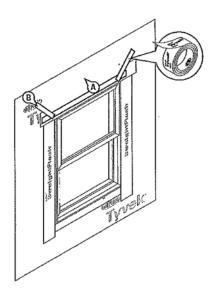
- B. Cut two pieces of DuPont[™] StraightFlash[™] or DuPont[™] FlexWrap[™] for jamb flashing extending 1" above window head flange and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame.
- C. Cut a piece of DuPont™ StraightFlash™ or DuPont™ FlexWrap™ for head flashing, which extends beyond outer edges of jamb flashings. Remove release paper and install completely covering mounting flange and adhering to exposed sheathing or framing members. (see C)





STEP 5

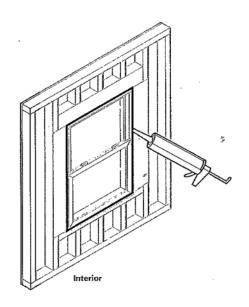
- A. Flip down upper flap of water-resistive barrier so it lays flat across head flashing.
- B. Tape along all cuts in water-resistive barrier and tape across head of the window with DuPont™ Tyvek® Tape.



STEP 6 (optional / not required)

Final Step

Seal around the window opening at the interior, using caulk (and backer rod as necessary). Caulk and backer rod will also serve as a back dam.

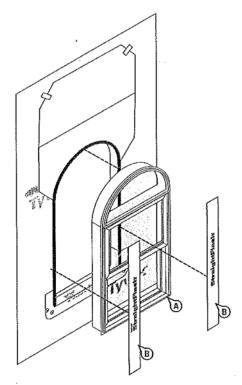


FOR ROUNDTOP WINDOWS

STEP 4

A. Install window according to manufacturer's instructions.

B. Cut two pieces of DuPont™ StraightFlash™ or DuPont™ FlexWrap™ for jamb flashing extending 1" above window head flange and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame.

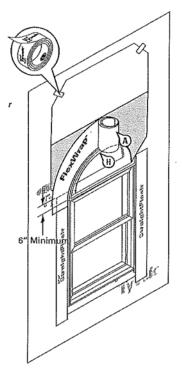


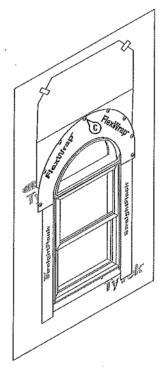
DuPont™ Flashing Systems Installation Guidelines

STEP 5

Install head flashing

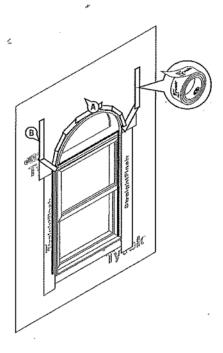
- A. Cut head flashing at least 12" longer than the arc length (H) of round-top window.
- B. Remove both release papers and install to conform around top of window, covering entire mounting flange and adhering to exposed sheathing or framing members. Head flashing should overlap jamb flashings at least 6".
- C. Secure outer edges of head flashing using mechanical fasteners. e.g. DuPont™ Tyvek® Wrap Caps (nails, screws, staples). SECURE every 6" to 12" along outer perimeter.





STEP 6

- A. Flip down upper flap of WRB so it lays flat across head flashing.
- B. Tape along all cuts in WRB and across head of the window with DuPont™ Tyvek® Tape.



STEP 7

Final Step

Seal around the window opening at the interior, using caulk (and backer rod as necessary). Caulk and backer rod will also serve as a back dam.

