

Fenestration Testing Laboratory, Inc.

10235 8th Street, Rancho Cucamonga, CA 91730

Report #: T17-036

REPORT SUMMARY:

REPORT #:

T17-036

TESTED FOR:

Value Windows and Doors
1830 Flower Ave.
Duarte, CA 91010

SERIES & PRODUCT TYPE:

Eurotek 70 - PVC FIXED WINDOW

CONFIGURATION:

0

FRAME SIZE:

1500.12 mm x 1500.12 mm (59.06" x 59.06")

SPECIFICATION:

NAFS - North American Fenestration Standard/specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/I.S.2/A440-11

Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-11 North American Fenestration
Standard/Specification for windows, doors, and skylights

PRIMARY DESIGNATOR:

CLASS CW-PG70 1500.12 x 1500.12 mm (59.06 x 59.06 in) Type: FW

TEST COMPLETION DATE: August 11, 2017

REPORT DATE: August 23, 2017

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1.0 Tested For: Value Windows and Doors
1830 Flower Ave.
Duarte, CA 91010

2.0 Purpose:

The purpose of this report is to present the testing methods employed and the test results obtained during the performance testing of one (1) PVC FIXED WINDOW described in paragraph 4.0 of this report.

3.0 Test References:

3.1 NAFS - North American Fenestration Standard/specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/I.S.2/A440-11

3.2 ASTM F 588-14 Forced Entry Resistance Tests for Windows

3.3 CAWM 301-90(1995) Forced Entry Test for Windows (CMBSO 1-79)

3.4 Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-11 North American Fenestration Standard/Specification for windows, doors, and skylights

4.0 Compliance Statement: The test results in paragraph 6.0 indicate that the test sample described in paragraph 5.0 of this report met the performance requirements of the above specifications for the performance grade shown in 4.1 below.

4.1 CLASS CW-PG70 1500.12 x 1500.12 mm (59.06 x 59.06 in) Type: FW

5.0 Sample Submitted:

5.1 Product Type: PVC FIXED WINDOW

5.2 Series: Eurotek 70

5.3 Configuration: 0

5.4 Product Dimensions:	Millimeters	Inches
Total Frame:	1500.12 x 1500.12	59.06 x 59.06
Fixed DLO:	1358.90 x 1358.90	53.50 x 53.50

5.5 Glass and Glazing:

<i>IGU Thickness</i>	<i>Spacer Type</i>	<i>Interior Lite</i>	<i>Exterior Lite</i>	<i>Glazing method</i>
1.0" overall wide	TPS	1/8" Tempered	1/8" Tempered	Inside glazed –the frame contained coextruded glazing gasket facing inward and snap-in glazing stops were applied full perimeter on the inside. The glazing stops contained pull-in glazing gasket facing out. The IGU sat on 3/16" x 1.5" x 4.125" PVC setting blocks at ¼ points on the sill. Setting blocks were also set at ¼ points on the jambs and head.

5.6 Weepage:

<i>Drainage Method</i>	<i>Size</i>	<i>Quantity</i>	<i>Location</i>
Rectangular weep	1" x 3/16"	One (1) at each end	Sill outside face
Rectangular weep	1" x 0.2"	One (1) at each end	Sill glazing pocket on the glazing leg web draining into a hollow

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5.7 Pressure balancing:

<i>Hole Size</i>	<i>Quantity</i>	<i>Location</i>
3/16" diameter hole	Six (6)	Three (3) on the head outboard of the IGU. Three (3) on the head in the glazing pocked on the glazing leg

5.8 Weather-stripping: None

5.9 Sealants:

<p>Sealant was applied at the following locations:</p> <ul style="list-style-type: none"> -PVC nail-on fin adapter was sealed to the frame full perimeter on the inboard and outboard side of the nail-on fin. -Screw heads of the screws fastening the nail-on fin adapter to the frame were sealed. -The nail-on fin was sealed to the rough opening.

5.10 Hardware: None

5.11 Construction:

<i>Location</i>	<i>Joinery Type</i>	<i>Number of Fasteners</i>	<i>Fastener Size</i>
Frame corners	Mitered and fusion welded	N/A	N/A
PVC nail-on fin adapter	Fastened with screws to frame	Five (5) per side	#8 x 0.75" PFH

5.12 Reinforcement:

<i>Material</i>	<i>Part #</i>	<i>Location</i>
Rolled steel tube in frame hollow	229029	Full perimeter in frame – Fastened with five screws per side under the nail-on fin adapters.

5.13 Installation:

<i>Location on frame</i>	<i>Anchor type</i>	<i>Spacing</i>
Full perimeter through the nail-on fin	#8 x 1.25" PFH	3" from each end and 5" on center

6.0 - Test procedures and results: All testing procedures were performed in accordance with the performance requirements of the test specifications referenced in paragraph 3.0 of this report. The number preceding each test listed below refer to the corresponding sections in the NAFS.

9.3.2 - Air Infiltration (ASTM E283-04(2012))

Test Description	Results	Allowed	Comments
75 Pa differential pressure	0.00 L/s*m ²	1.5 L/s*m ²	
1.57 psf differential pressure	0.00 cfm/ft ²	0.30 cfm/ft ²	
The tested specimen meets the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.			

9.3.2 - Air Exfiltration (ASTM E283-04(2012))

Test Description	Results	Allowed	Comments
75 Pa differential pressure	0.00 L/s*m ²	1.5 L/s*m ²	
1.57 psf differential pressure	0.00 cfm/ft ²	0.30 cfm/ft ²	
The tested specimen meets the Fixed Level Canadian air exfiltration performance requirements specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.			

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Report #: T17-036

9.3.3 - Water Penetration (ASTM E547-00(2016))

Test Description	Results	Allowed	Comments
720 Pa (15.04 psf)	No water penetration	No water penetration	1, 2

9.3.4.2 - Uniform Load Deflection at Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
DP70 - 3360 Pa (70.18 psf) Pos	0.00 mm (0.00")	8.64 mm (0.34")	2
DP70 - 3360 Pa (70.18 psf) Neg	0.00 mm (0.00")	8.64 mm (0.34")	2

9.3.4.3 - Uniform Load Deflection at Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
OL for DP70 - 5040 Pa (105.26 psf) Pos	0.00 mm (0.00")	8.64 mm (0.34")	2
OL for DP70 - 5040 Pa (105.26 psf) Neg	0.00 mm (0.00")	8.64 mm (0.34")	2

9.3.5 - Forced Entry Resistance (ASTM F588-14 & CAWM 301-90(1995))

Test Description	Results	Allowed	Comments
ASTM F588 Type A and CAWM 301 Type I	No Entry	No Entry	

9.3.6.2 - Thermoplastic Weld Test

Test Description	Results	Allowed	Comments
Frame Corner	Passed	Break shall not extend along the entire weld line	

Comment #1 - Insect screen not applicable - fixed window

Comment #2 - Opted to start at a level above the gateway level.

Testing was witnessed by: Jason Ye.

For a complete description of the tested sample, refer to the attached five (5) pages consisting of bill of materials, cross section drawings, and die drawings. This report is complete only when all the above referenced bill of materials and drawings are attached.

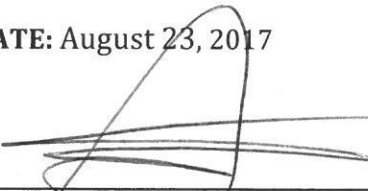
The bill of materials, cross section drawings, and die drawings of frame and sash members are on file and have been compared to the sample submitted. Test sample sections, bill of materials, drawings and a copy of this report will be retained at the test laboratory for four years.

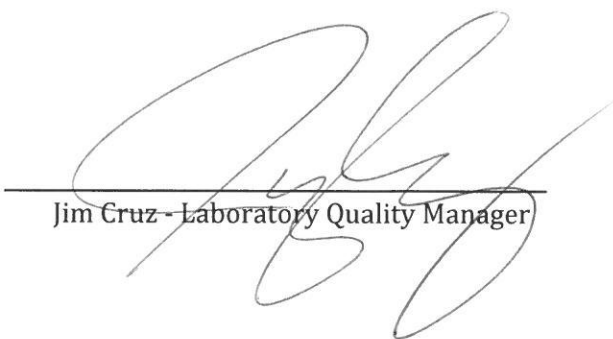
This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory, Inc (FTL).

The preceding test results relate only to the tested specimen and were obtained by using the applicable test methods listed in section 3.0 and 6.0 above. This report does not constitute certification of this product or an endorsement by this laboratory. It is the property of the client named in section 1.0 above. Certification can only be granted by an approved administrator and/or validator.

TEST COMPLETION DATE: August 11, 2017

REPORT DATE: August 23, 2017


Pete Cruz - Test Engineer


Jim Cruz - Laboratory Quality Manager

CUSTOMER NAME:

Sectional Drawing

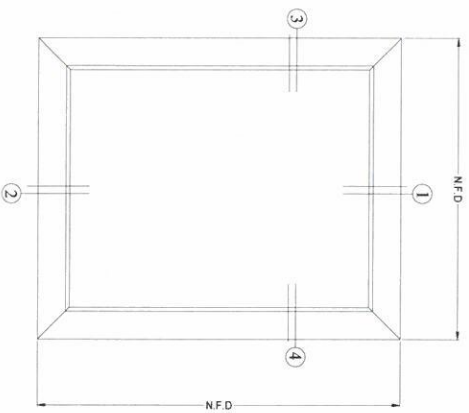
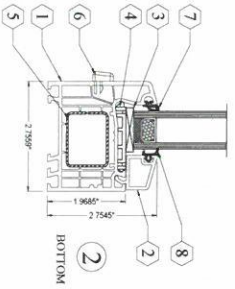
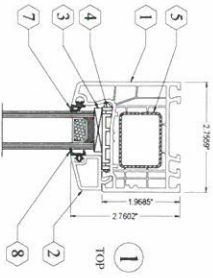
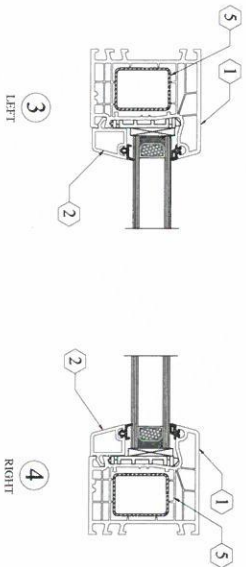
EUROTEK_WINDOW_PIC

Series #:

70

BOM

INDEX	PART NUMBER	DESCRIPTION	QTY	VENDOR	MATERIAL
1	149307	Main Frame 70mm x 70mm	4	ALUPLAST	PVC
2	130636	Glazing Bead	4	ALUPLAST	PVC
3	649908	Glazing Block - 5mm Green	8	ALUPLAST	PVC
4	670301	Compenition Block	8	ALUPLAST	PVC
5	229029	Square Reinforcement	4	ALUPLAST	Galvanized Steel
6	690923	Drain Slot Cap - White	2	ALUPLAST	PVC
7	449980	GASKET STANDARD	4	ALUPLAST	EPDM
8	429112	REPAIR GASKETS	4	ALUPLAST	EPDM



FENESTRATION TESTING LAB

REPORT NO: *T17-036*

DATE: *8/25/17*

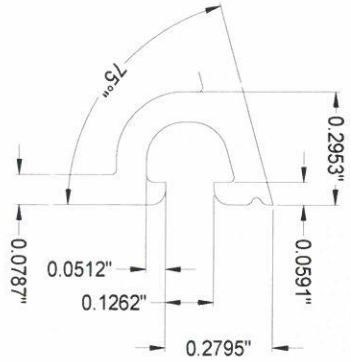
Standard		Sectional Area	Unspec	Designed	Checked	File No:	PICTURE
Material	PVC	Theor Weight	TK Tolerance	Drawn	Approved		
				Yang Jing Wen	Mapping	06/29/2017	

CUSTOMER NAME:

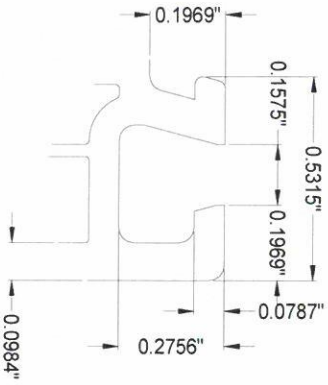
Part No.

149307

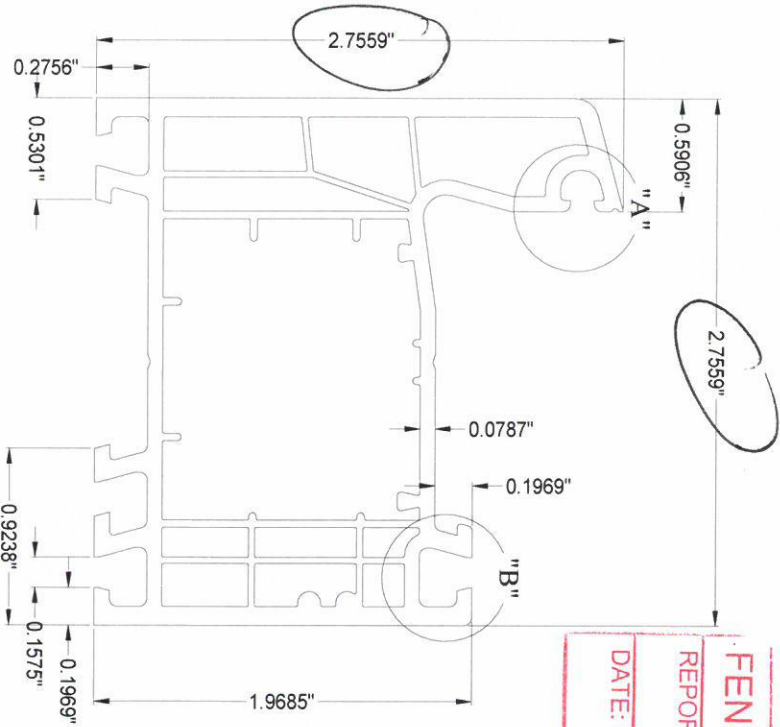
Series #:



DETAIL "A"
SCALE: 2=1



DETAIL "B"
SCALE: 2=1



FENESTRATION TESTING LAB

REPORT NO:

717-036

DATE:

8/25/17

Standard		Sectional Area	Unspec	Designed	James Ye	Checked	File No:
Material	PVC	Theor. Weight	TK Tolerance	Drawn	James Ye	Approved	

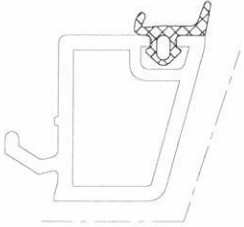


CUSTOMER NAME:

Part No.

120636

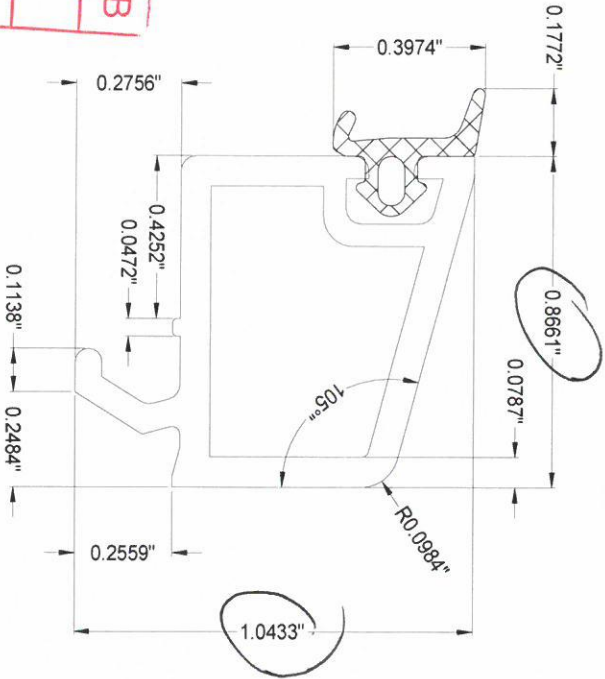
Series #:



EXPOSED SURFACE

1 : 1

FENESTRATION TESTING LAB
REPORT NO: **T17-036**
DATE: **8/25/19**

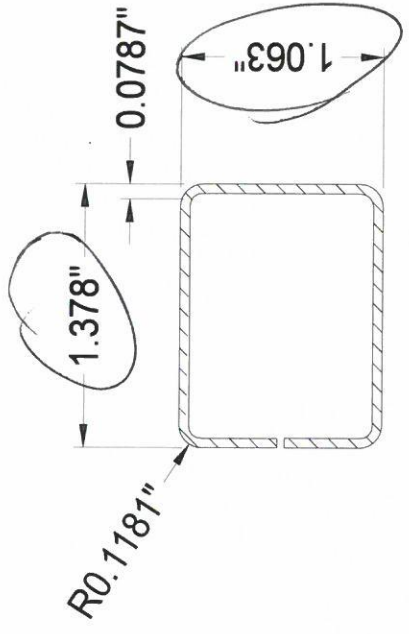


SCALE: 2 : 1

26 - 27mm

Standard	Sectional Area	Unspec	Designed	James Ye	Checked	File No:	
Material	PVC	Theor Weight	TK Talence	Drawn	James Ye	Approved	

CUSTOMER NAME:		Series #:
Part No.	229029	



FENESTRATION TESTING LAB
 REPORT NO: 777-036
 DATE: 8/25/17

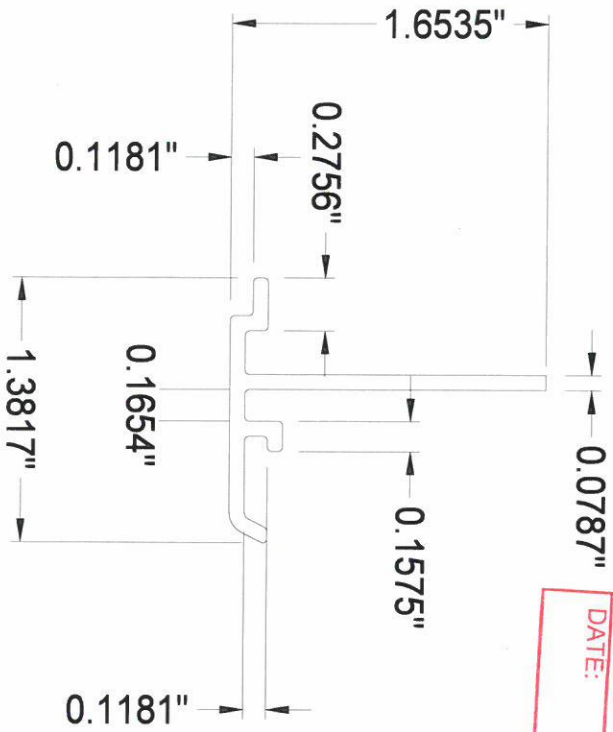
Standard	Sectional Area	Unspec	Designed	James Ye Checked	File No:
Material	Theor. Weight	TK.Tolerance	Drawn	James Ye Approved	
	PVC				

CUSTOMER NAME:

Part No.

119210

Series #:



FENESTRATION TESTING LAB
REPORT NO: 712-036
DATE: 8/25/19

Standard	Sectional Area	Unspec	Designed	James Ye Checked	File No:	
Material	PVC	Theor. Weight	TK Tolerance	Drawn	James Ye Approved	