

Viewmax Windows and Doors Co., Ltd.

TEST REPORT

SCOPE OF WORK

X2C Manual External Suspension Window + Fixed Window Assembly

REPORT NUMBER

221125007SHF-001

TEST DATE(S)

2022-12-05 - 2022-12-12

ISSUE DATE

2022-12-21

PAGES

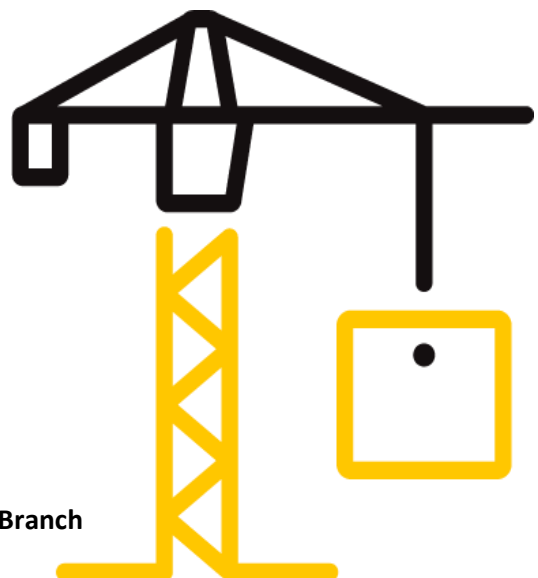
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(September 1, 2022)

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Issue Date: 2022-12-21 Intertek Report No. 221125007SHF-001

Applicant: Viewmax Windows and Doors Co., Ltd.
Applicant Address: No.297, Huaxin Road, Yanggu County, Liaocheng City, Shandong Province
Attn: Louis
Manufacturer: Viewmax Windows and Doors Co., Ltd.
Manufacturer Address: No.297, Huaxin Road, Yanggu County, Liaocheng City, Shandong Province
Product Type: Awning Window, Fixed Window
Product Model: X2C
Primary product designator: Class LC - PG30 - Size Tested 1246 × 845 mm (49.06 × 33.27 in.) - Type AP,
Class LC - PG30 - Size Tested 1568 × 1560 mm (61.73 × 61.42 in.) - Type FW
Optional secondary designator: Positive Design Pressure = +1440 Pa (30.08 psf)
Negative Design Pressure = -1440 Pa (30.08 psf)
Water penetration resistance test pressure = 290 Pa (6.06 psf)
For Canada: Fixed Window A: Canadian Air Infiltration/Exfiltration = Fixed Level
Awning Window: Canadian Air Infiltration/Exfiltration = A2 Level
SUBJECT: Performance testing
Awning Window, Fixed Window

Product Information

Product Name	X2C Manual External Suspension Window + Fixed Window Assembly	Brand	Viewmax
Sample Description	Good Condition	Sample Amount	1 set
		Received Date	2022-11-25
Sample ID	Model	Specification	
S221125007SHF.001	X2C	2814mm(W) x 1560mm(H)	

Test Methods And Standards

Test Standard	ASTM E283/E283M-2019; ASTM E547-00 (Reapproved 2016); ASTM E330/E330M-2014(R2021); ASTM F588-17; AAMA/WDMA/CSA101/I.S.2/A440-17 Clause 9.3.1, Clause 9.3.6.2 and Clause 9.3.6.5.5; CSA A440S1-19 Clause 5.2
Specification Standard	AAMA/WDMA/CSA 101/I.S.2/A440-17 (NAFS 2017 - North American Fenestration Standard / Specification for Windows, Doors and Skylights) Clause 9.3.1, Clause 9.3.2, Clause 9.3.3, Clause 9.3.4, Clause 9.3.5, Clause 9.3.6.2 and Clause 9.3.6.5.5; CSA A440S1-19 Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-17 Clause 5.2, Clause 5.3, Clause 5.4 and Clause 5.5
Test Conclusion	The results met AAMA/WDMA/CSA 101/I.S.2/A440-17 and CSA A440S1-19 requirements specified on Awning Window and Fixed Window, and the results were shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Name: Fred Bao

Title: Reviewer

Name: Gio Liu

Title: Project Engineer

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Test Items, Method and Results:

1 Test Samples

Sample was submitted to Intertek directly from the client. Sample was not independently selected for testing. Sample was received at the Evaluation Center on November 25, 2022.

A full scale sample of X2C Manual External Suspension Window + Fixed Window Assembly (Model: X2C) was provided by the manufacturer that was not weathered nor conditioned.

The description of the samples given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Table 1 Product Information

Product Name	X2C Manual External Suspension Window + Fixed Window Assembly
Model	X2C
Dimension of Window Frame	2814mm(Width) x 1560mm(Height) x 92mm(Thickness)
Dimension of Window Sash	Operable: 1246mm(Width) x 845mm(Height) x 92mm(Thickness) Fixed A: 1246mm(Width) x 715mm(Height) x 92mm(Thickness) Fixed B: 1568mm(Width) x 1560mm(Height) x 92mm(Thickness)
Profile	PVC Model: The X2C series of all PVC materials Manufacturer: Viewmax Co., Ltd. Aluminum Model: The X2C series of all ALU materials Manufacturer: Hua Jian Aluminum Industry Group Co., Ltd. Shaped Steel Model: The X2C series of all Shaped steel materials Manufacturer: Zhongde Industry and Trade Co., Ltd.
Frame Corner Construction Details: Joinery type	File welding
Reinforcement	Metal Angle code (The profile corner part is reinforced by metal angle code)
Glazing	Dimension: For Operable Part: 1066mm(Width) x 664mm(Height); For Fixed A Part: 1165mm(Width) x 633mm(Height); Type: 30mm thickness, 5mm + 20mm Ar + 5mm Tempered Double Glass with one layer of Low-E; Warm edge strip; For Fixed B Part: 1459mm(Width) x 1452mm(Height); 30mm thickness, 8mm + 14mm Ar + 8mm Tempered Double Glass with one layer of Low-E; Warm edge strip Supplier: Viewmax Co., Ltd.
Hardware	Lock Model: SC-03; Chain Model: PK-01; Hinge Model: ZXSLG Supplier: Li Sheng Co., Ltd.
Weather-strip	Not Applicable
Thermal Break	Not Applicable
Drainage	Sizes: 30mmx 5 mm (Width x Height) Quantity: 7

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Table 1 Product Information(Continued)

Gasket	Model: (1) 463214; (2) 482120; (3) 482122; (4) 449122; (5) 449522 Material: EPDM Supplier: Jiangyin Haida Co., Ltd.
Sealant of Glass	Model: 796 Neutral silicone sealant Material: Silicone Sealant Supplier: Dow Corning Co., Ltd.
Installation	The rough opening allowed for a 10 mm shim space. The exterior perimeter of the test specimen was sealed with silicon sealant.

The sample ID number was S221125007SHF.001. The drawings of the representative sample were referenced in Appendix A, the test data was referenced in Appendix B and the photo of the representative sample was referenced in Appendix C.

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Test Items, Method and Results:

2 Test Result

Table 2 Test Result

Test Description	Requirements (Class LC-PG30)		Results		Verdict
2022/12/5					
Operating Force Test AAMA/WDMA/CSA1 01/I.S.2/A440-17, Clause 9.3.1	Max Force to Initial Movement	70 N	Max Force to Initial Movement	21 N	Pass
	Max Force to Maintain Movement	45 N	Max Force to Maintain Movement	14 N	
Air Leakage Resistance Test For Awning Window AAMA/WDMA/CSA1 01/I.S.2/A440-17, Clause 9.3.2 ASTM E283/E283M-2019	Maximum air leakage at +75 Pa	1.5 L/s·m ²	Air leakage at +75 Pa	0.90 L/s·m ²	Pass
	Maximum air leakage at -75 Pa	1.5 L/s·m ²	Air leakage at -75 Pa	0.94 L/s·m ²	
Air Leakage Resistance Test For Fixed Window A AAMA/WDMA/CSA1 01/I.S.2/A440-17, Clause 9.3.2 ASTM E283/E283M-2019	Maximum air leakage at +75 Pa	0.2 L/s·m ²	Air leakage at +75 Pa	0.02 L/s·m ²	Pass
	Maximum air leakage at -75 Pa	0.2 L/s·m ²	Air leakage at -75 Pa	0.03 L/s·m ²	
Air Leakage Resistance Test For Fixed Window B AAMA/WDMA/CSA1 01/I.S.2/A440-17, Clause 9.3.2 ASTM E283/E283M-2019	Maximum air leakage at +75 Pa	0.2 L/s·m ²	Air leakage at +75 Pa	0.02 L/s·m ²	Pass
	Maximum air leakage at -75 Pa	0.2 L/s·m ²	Air leakage at -75 Pa	0.02 L/s·m ²	
Water Penetration Resistance Test AAMA/WDMA/CSA1 01/I.S.2/A440-17, Clause 9.3.3 ASTM E547-00(R2016)	Minimum water pressure	220 Pa	Test Pressure	290 Pa	Pass
			After water sprayed for complete four cycles in 24 minutes at 290 Pa, there was no water penetration.		

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Table 2 Test Result (Continued)

Test Description	Requirements (Class LC-PG30)	Results	Verdict		
2022/12/5					
Uniform Load Deflection Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.4.2 ASTM E330/E330M-2014 (R2021)	Minimum Design Pressure (DP)	1440 Pa	Design Pressure (DP)	+1440 Pa	Pass
		Maximum deflection at Stile of Awning Window	0.4 mm		
		Maximum deflection at Rail at handle side of Awning Window	0.7 mm		
		Maximum deflection at Transom	0.7 mm		
		Maximum deflection at Mullion	2.0 mm		
		Maximum deflection at Glazing	2.6 mm	Reported	
		Design Pressure (DP)	-1440 Pa	Pass	
		Maximum deflection at Stile of Awning Window	0.5 mm		
		Maximum deflection at Rail at handle side of Awning Window	1.0 mm		
		Maximum deflection at Transom	0.6 mm		
		Maximum deflection at Mullion	1.3 mm		
		Maximum deflection at Glazing	2.6 mm	Reported	

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Table 2 Test Result (Continued)

Test Description	Requirements (Class LC-PG30)	Results	Verdict	
2022/12/5				
Uniform Load Structural Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.4.3 ASTM E330/E330M-2014 (R2021)	Minimum Structural Pressure (STP)	2160 Pa		
		Structural Pressure (STP)	+2160 Pa	Pass
		No significant breakage or damage after ultimate strength was released.		
		Maximum permanent deformation at Stile of Awning Window	0.2 mm	
		Maximum permanent deformation at Rail at handle side of Awning Window	1.8 mm	
		Maximum permanent deformation at Transom	0.5 mm	
		Maximum permanent deformation at Mullion	2.7 mm	
		Maximum permanent deformation at Glazing	0.4 mm	
		Structural Pressure (STP)	-2160 Pa	Pass
		No significant breakage or damage after ultimate strength was released.		
		Maximum permanent deformation at Stile of Awning Window	0.1 mm	
		Maximum permanent deformation at Rail at handle side of Awning Window	1.3 mm	
		Maximum permanent deformation at Transom	0.5 mm	
		Maximum permanent deformation at Mullion	2.1 mm	
		Maximum permanent deformation at Glazing	0.2 mm	

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Table 2 Test Result (Continued)

Test Description	Requirements (Class LC-PG30)		Results		Verdict
2022/12/7					
Forced-entry Resistance Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.5 ASTM F588-17	Minimum Grade 10		Test Class	Grade 10	Pass
			After test, there was no damage and permanent deformation.		
Awning, hopper, projected Hardware Load Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.6.5.5	Load	70 N	Maximum deflection measured	0.55 mm	Pass
	Deflection Limit	Reported			
Insect screen serviceability Test CSA A440S1-19, Clause 5.2	Load to the Insect screens in the outward direction	60 N	No disengagement or distortion occurred.		Pass
2022/12/12					
Thermoplastic corner weld Test AAMA/WDMA/CSA101/I.S.2/A440-17, Clause 9.3.6.2	When loaded to failure, the break shall not extend along the entire weld line.		Corner Type	Load to cause breakage (N)	Pass
			Frame corner	684	
			Sash corner	862	
			No break was extended along the entire weld line at load to cause breakage.		

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Appendix A: Sample Drawings

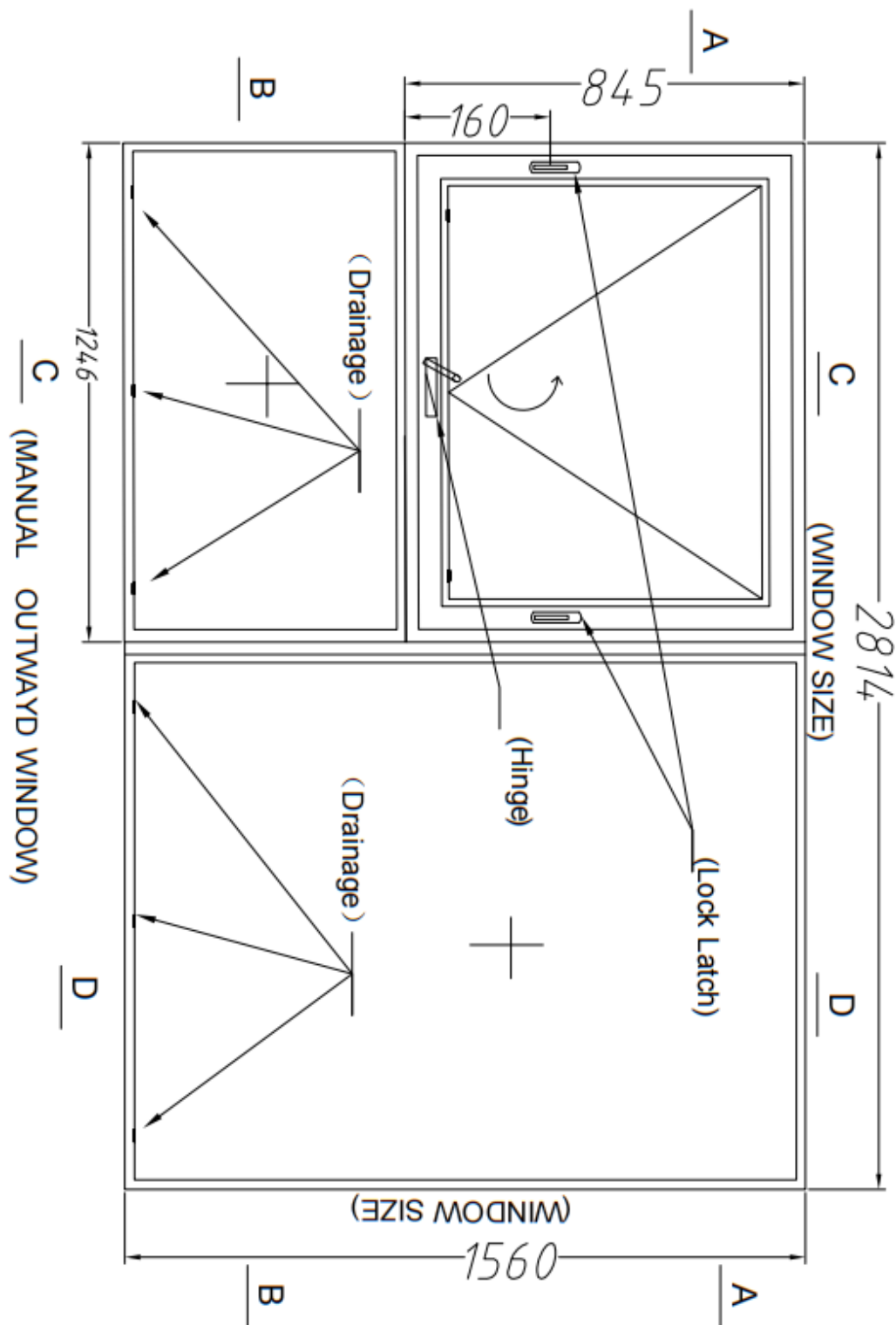


Fig.1 Drawing of Representative Sample

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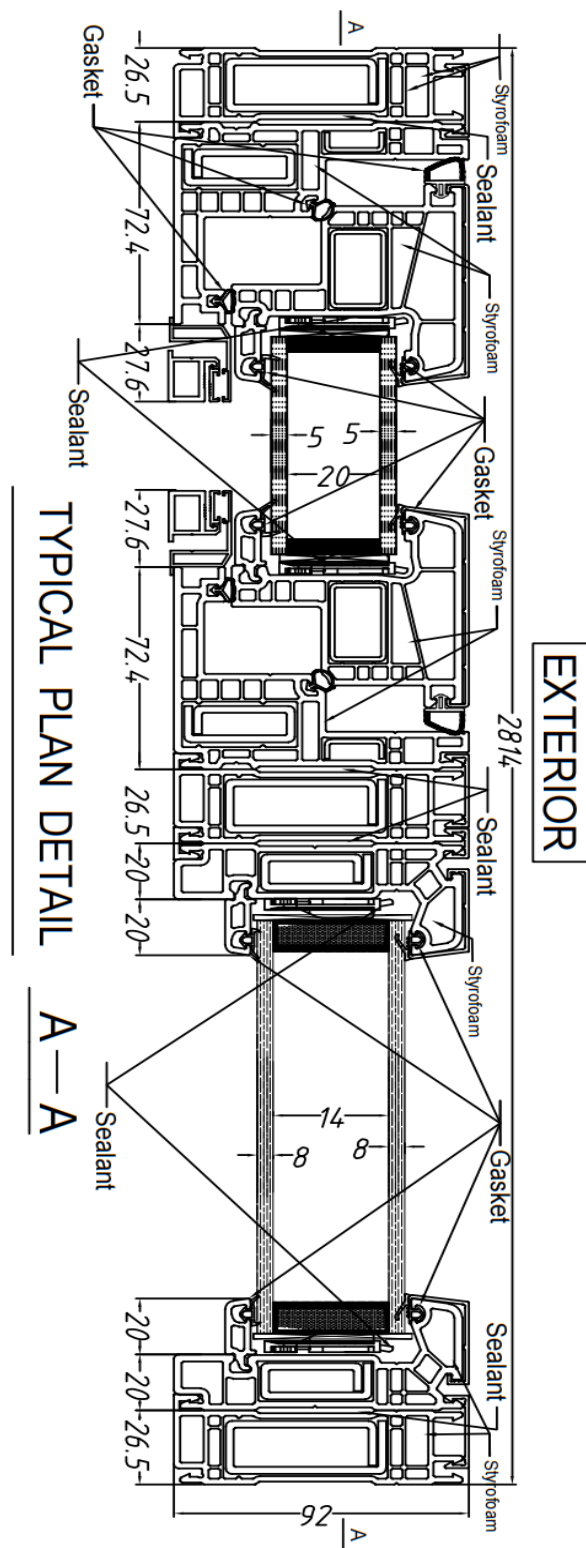


Fig.2 Drawing of Representative Sample

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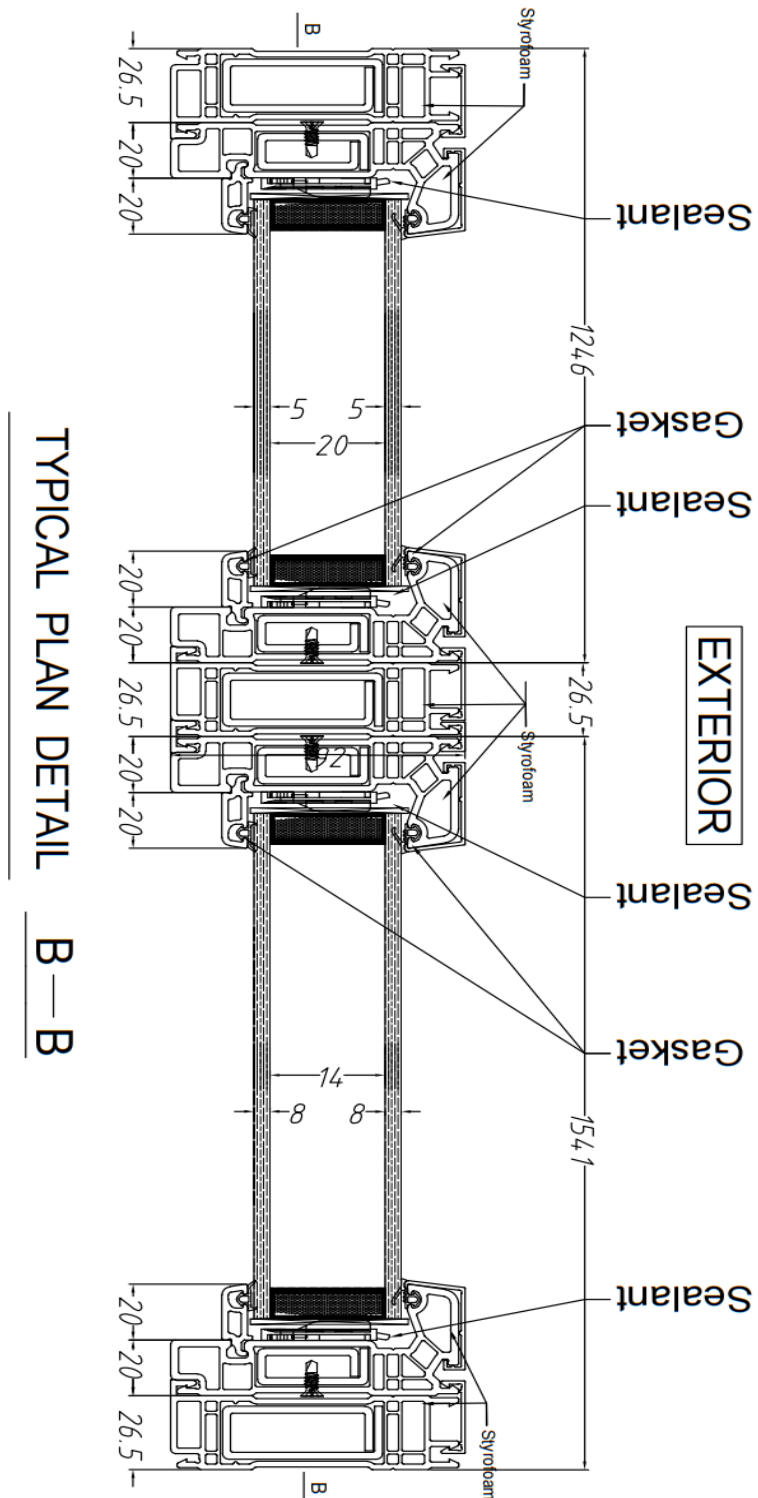


Fig.3 Drawing of Representative Sample

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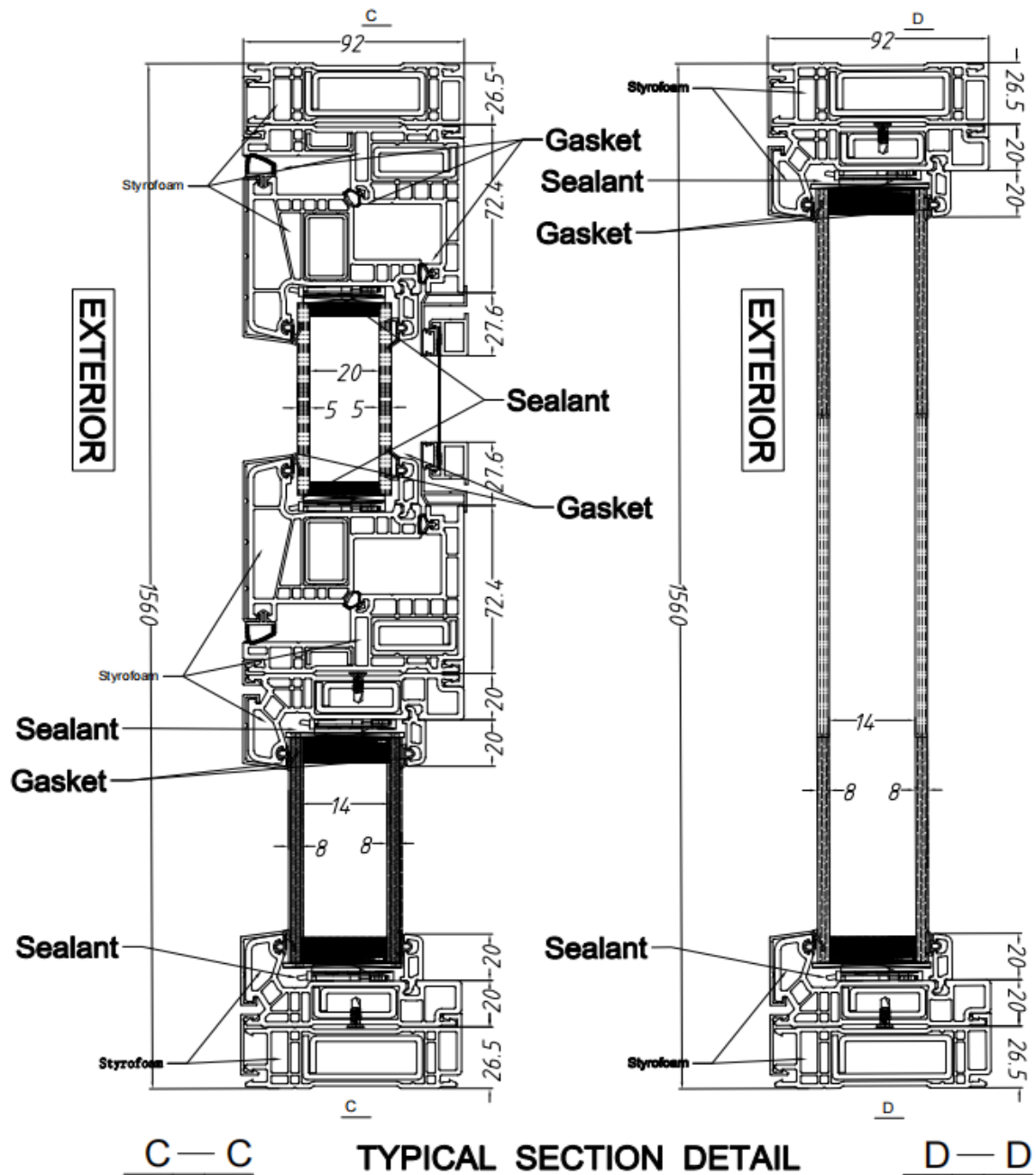


Fig.4 Drawing of Representative Sample

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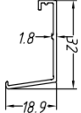
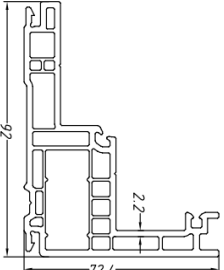
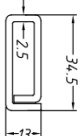
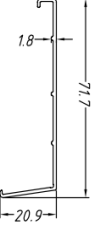
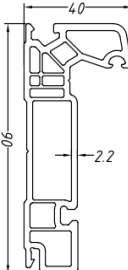
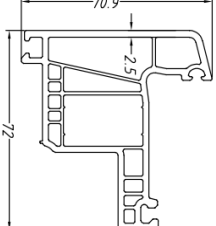
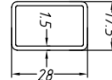
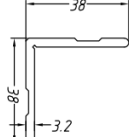
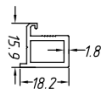
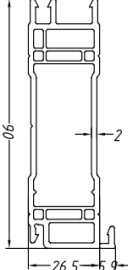
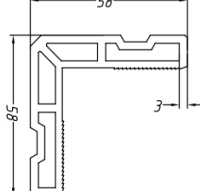
X2 FIXED FRAME ALUMINUM PLATE 	X2C OUTER FRAME 	X2 FIXED FRAME STEEL LINING 	SCREEN WINDOW FRAME 
X2C OPEN FAN ALUMINUM PLATE 	X2 FIXED FRAME 	X2C OUTER FRAME STEEL LINING 	SCREEN WINDOW FASTENER 
X2 PADDING PROFILE ALUMINUM PLATE 	X2C OPEN FAN 	X2C OPEN FAN STEEL LINING 	ALUM ANGLE 
SCREEN WINDOW SASH 	X2 PADDING PROFILE 	X2 PADDING PROFILE STEEL LINING 	ALUM ANGLE 

Fig.5 Drawing of Representative Sample

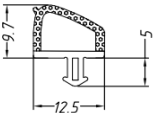
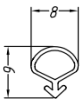
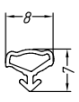
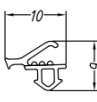
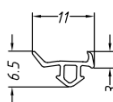
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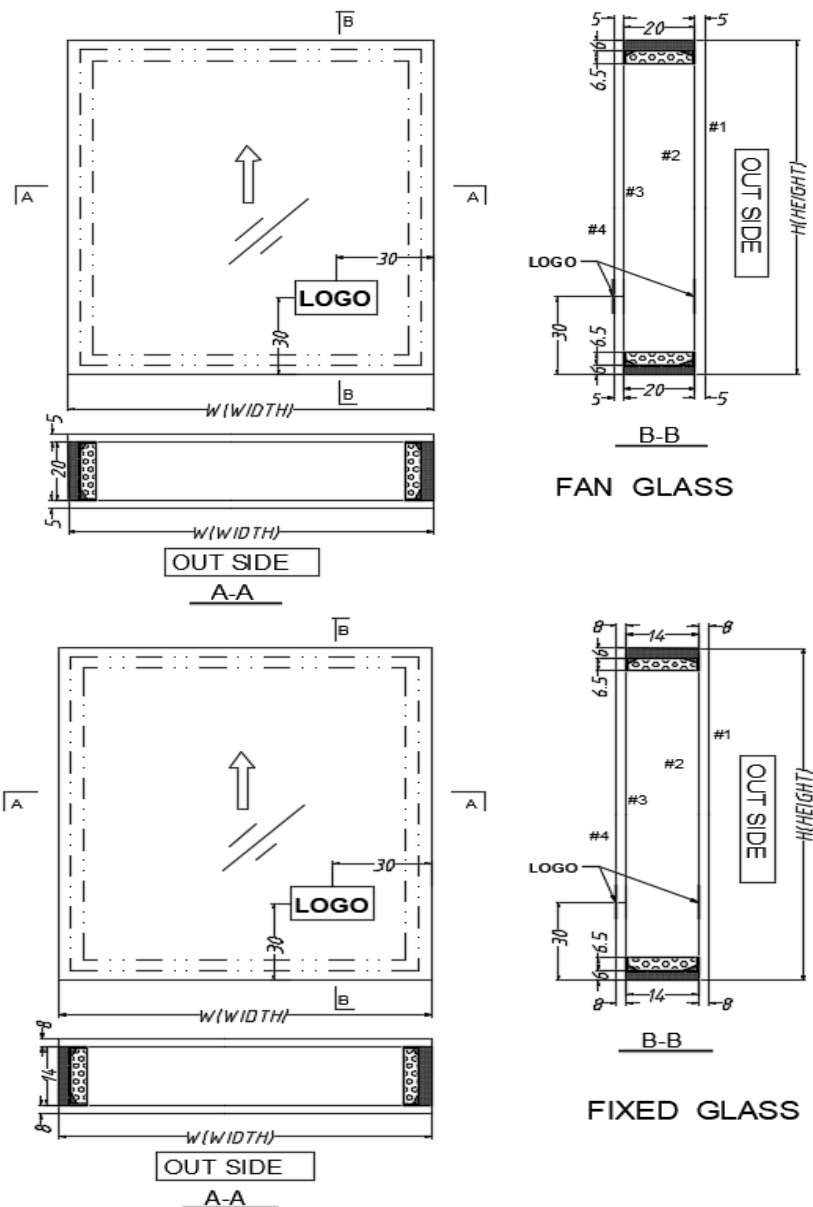


Fig.6 Drawing of Representative Sample

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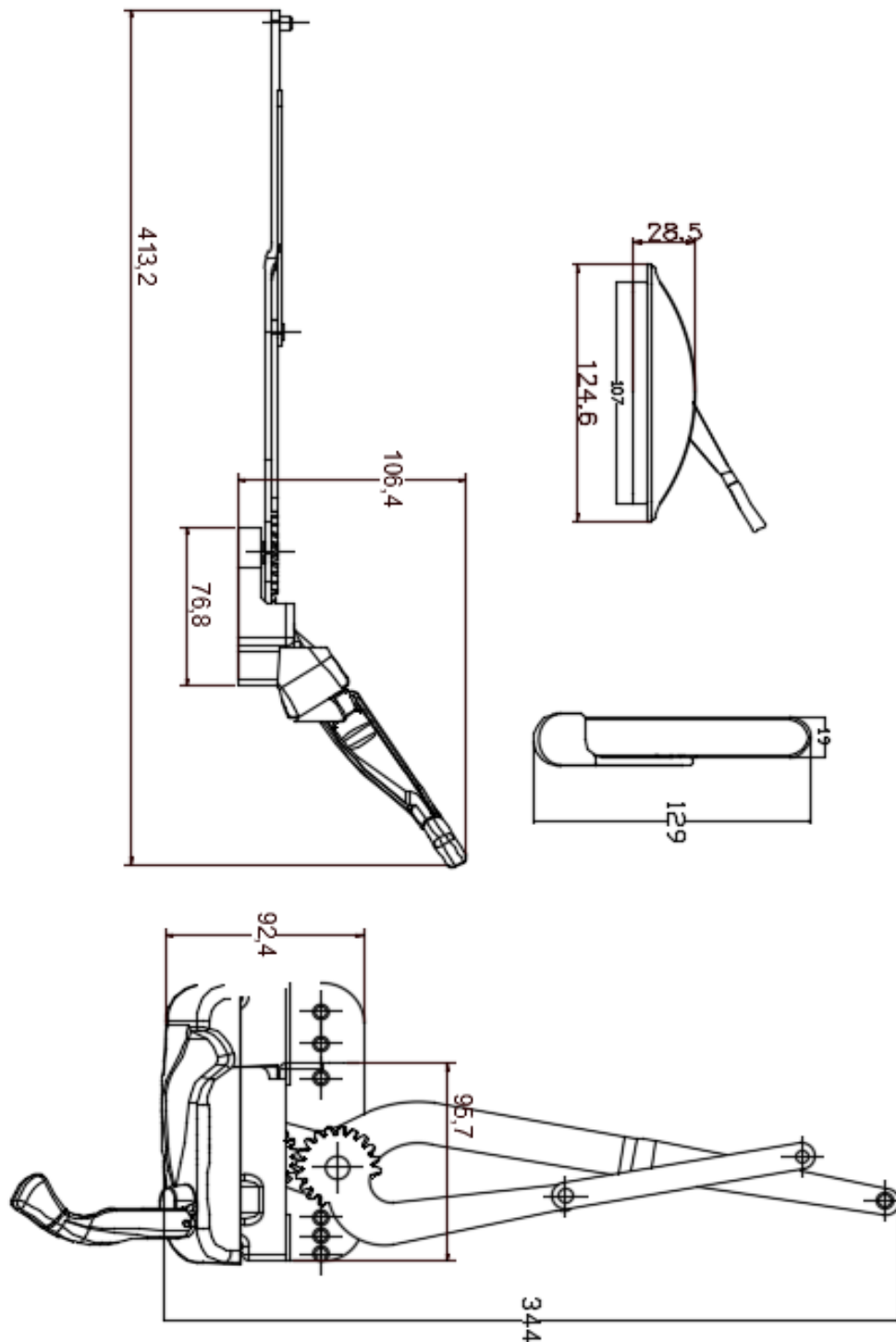


Fig.7 Drawing of Representative Sample

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Appendix B: Test Data

B.1 Air Leakage Resistance Test – Test method ASTM E283/E283M-2019

Area of Awning Window: 1.05 m²

Table B.1 Test Data of Air Leakage Resistance Test

Infiltration rate (75 Pa)	0.90 L/s·m ²	0.18 cfm/ft ²
Exfiltration rate (75 Pa)	0.94 L/s·m ²	0.18 cfm/ft ²
Average air leakage rate (75 Pa)	0.92 L/s·m ²	0.18 cfm/ft ²
Requirements (75 Pa): U.S. (only) maximum allowable leakage for Class LC Windows; Canadian (only) air Infiltration / Exfiltration levels for Class LC Windows (Operable): A2 Level	1.5 L/s·m ²	0.3 cfm/ft ²

The Awning Window met the requirements for Class LC Windows for Air Leakage Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

The Awning Window met the requirements for Canadian (only) Air Infiltration / Exfiltration levels for Class LC Windows (Operable): A2 Level for Air Leakage Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

Area of Fixed Window A: 2.40 m²

Table B.2 Test Data of Air Leakage Resistance Test

Infiltration rate (75 Pa)	0.02 L/s·m ²	<0.01 cfm/ft ²
Exfiltration rate (75 Pa)	0.03 L/s·m ²	0.01 cfm/ft ²
Average air leakage rate (75 Pa)	0.03 L/s·m ²	0.01 cfm/ft ²
Requirements (75 Pa): U.S. (only) maximum allowable leakage for Class LC Windows; Canadian (only) air Infiltration / Exfiltration levels for Class LC Windows (Fixed): Fixed Level	0.2 L/s·m ²	0.04 cfm/ft ²

The Fixed Window A met the requirements for Class LC Windows for Air Leakage Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

The Fixed Window A met the requirements for Canadian (only) Air Infiltration / Exfiltration levels for Class LC Windows (Fixed): Fixed level for Air Leakage Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

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Area of Fixed Window B: 0.89 m²

Table B.3 Test Data of Air Leakage Resistance Test

Infiltration rate (75 Pa)	0.02 L/s·m ²	<0.01 cfm/ft ²
Exfiltration rate (75 Pa)	0.02 L/s·m ²	<0.01 cfm/ft ²
Average air leakage rate (75 Pa)	0.02 L/s·m ²	<0.01 cfm/ft ²
Requirements (75 Pa): U.S. (only) maximum allowable leakage for Class LC Windows; Canadian (only) air Infiltration / Exfiltration levels for Class LC Windows (Fixed): Fixed Level	0.2 L/s·m ²	0.04 cfm/ft ²

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Appendix B: Test Data

B.2 Water resistance test – Test method ASTM E547-00 (Reapproved 2016)

No water penetration occurred when the pressure was 290 Pa (6.06 psf)

After water sprayed for complete four cycles in 24 minutes at 290 Pa (6.06 psf), there was no water penetration.

Test result: $P_{\max} = 290 \text{ Pa}$ (6.06 psf).

The tested specimen met the requirements for Class LC-PG30 for Water Penetration Resistance Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

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Appendix B: Test Data

B.3 Uniform Load Deflection Test – Test method ASTM E330/E330M-2014(R2021), Procedure A

Span length, L = 730 mm	Set Points (1-3)
Span length, L = 1110 mm	Set Points (3-5)
Span length, L = 1110 mm	Set Points (6-8)
Span length, L = 1450 mm	Set Points (9-11)
Span length, L = 1380 mm	Set Points (12-14)

Test Pressure (DP), P = 1440 Pa (30.08 psf)

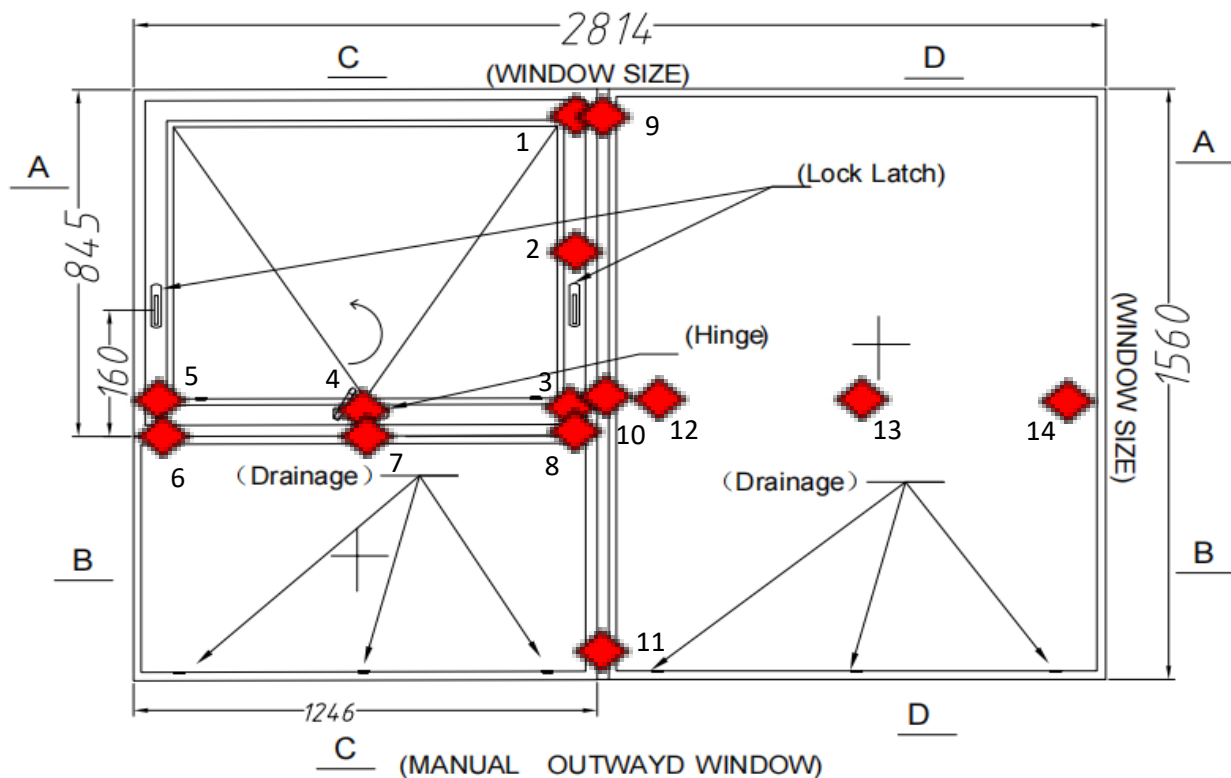


Fig.8 Locations of Displacement Measuring Devices

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Table B.4 Test Data of Uniform Load Deflection Test

Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		1	2	3	
Stile of Awning Window	730	+P = 1440	1.3	2.9	3.7	0.4
		0	0.3	0.3	0.5	<0.1
		-P = -1440	1.9	3.8	4.7	0.5
		0	0.4	0.6	1.8	<0.1
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		3	4	5	
Rail at handle side of Awning Window	1110	+P = 1440	3.7	3.3	1.6	0.7
		0	0.5	2.0	0.6	1.5
		-P = -1440	4.7	4.6	2.6	1.0
		0	1.8	1.7	0.6	0.5
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		6	7	8	
Transom	1110	+P = 1440	1.1	2.8	3.1	0.7
		0	0.6	1.9	2.4	0.4
		-P = -1440	1.2	2.6	2.8	0.6
		0	0.4	1.6	1.9	0.5
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		9	10	11	
Mullion	1450	+P = 1440	1.2	2.9	0.7	2.0
		0	0.3	2.4	0.1	2.2
		-P = -1440	1.7	2.5	0.7	1.3
		0	0.4	1.9	0.1	1.7
Member (mm)		Test Pressure (Pa)	Deflection (mm)			Maximum Deflection(mm)
Item	Span Length		12	13	14	
Glazing	1380	+P = 1440	3.3	5.1	1.7	2.6
		0	2.4	1.8	0.6	0.3
		-P = -1440	3.2	5.2	2.0	2.6
		0	1.9	1.4	0.6	0.2

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Table B.5 Test Data of Uniform Load Deflection Test for Stile of Awning Window

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
1440 Pa (30.08 psf)	0.4	(0.02)	0.5	(0.02)
Span length, L =	730 mm	(28.74 in.)	Deflection limit L/175 =	4.2 mm (0.16 in.)

Table B.6 Test Data of Uniform Load Deflection Test for Rail at handle side of Awning Window

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
1440 Pa (30.08 psf)	0.7	(0.03)	1.0	(0.04)
Span length, L =	1110 mm	(43.70 in.)	Deflection limit L/175 =	6.3 mm (0.25 in.)

Table B.7 Test Data of Uniform Load Deflection Test for Transom

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
1440 Pa (30.08 psf)	0.7	(0.03)	0.6	(0.02)
Span length, L =	1110 mm	(43.70 in.)	Deflection limit L/175 =	6.3 mm (0.25 in.)

Table B.8 Test Data of Uniform Load Deflection Test for Mullion

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
1440 Pa (30.08 psf)	2.0	(0.08)	1.3	(0.05)
Span length, L =	1450 mm	(57.09 in.)	Deflection limit L/175 =	8.3 mm (0.33 in.)

Table B.9 Test Data of Uniform Load Deflection Test for Glazing

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Maximum Deflection		Maximum Deflection	
1440 Pa (30.08 psf)	2.6	(0.10)	2.6	(0.10)
Span length, L =	1380 mm	(54.33 in.)	No Deflection limit.	

The tested specimen met the requirements for Class LC-PG30 for Uniform Load deflection Test at design pressure as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

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Appendix B: Test Data

B.4 Uniform Load Structural Test – Test method ASTM E330/E330M-2014(R2021), Procedure A

Design Pressure, P = 1440 Pa (30.08 psf)

Structural Pressure, P = 2160 Pa (45.11 psf)

Table B.10 Test Data of Uniform Load Structural Test

Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		1	2	3	
Stile of Awning Window	730	+P = 2160	–	–	–	–
		0	0.5	0.7	0.5	0.2
		-P = -2160	–	–	–	–
		0	0.9	1.0	0.9	0.1
Permanent Deformation limit, L x 0.4% = 2.9 mm						
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		3	4	5	
Rail at handle side of Awning Window	1110	+P = 2160	–	–	–	–
		0	0.5	2.5	0.9	1.8
		-P = -2160	–	–	–	–
		0	0.9	2.2	1.0	1.3
Permanent Deformation limit, L x 0.4% = 4.4 mm						
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		6	7	8	
Transom	1110	+P = 2160	–	–	–	–
		0	0.7	2.3	2.9	0.5
		-P = -2160	–	–	–	–
		0	0.7	2.1	2.6	0.5
Permanent Deformation limit, L x 0.4% = 4.4 mm						
Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		9	10	11	
Mullion	1450	+P = 2160	–	–	–	–
		0	0.5	3.0	0.2	2.7
		-P = -2160	–	–	–	–
		0	0.6	2.5	0.2	2.1
Permanent Deformation limit, L x 0.4% = 5.8 mm						

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Table B.10 Test Data of Uniform Load Structural Test (Continued)

Member (mm)		Test Pressure (Pa)	Permanent deformation(mm)			Maximum permanent deformation(mm)
Item	Span Length		1	2	3	
Glazing	1380	+P = 2160	—	—	—	—
		0	3.0	2.3	0.8	0.4
		-P = -2160	—	—	—	—
		0	2.6	1.9	0.8	0.2
No Permanent Deformation limit.						

Table B.11 Test Data of Uniform Load Structural Test For Stile of Awning Window

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
2160 Pa (45.11 psf)	0.2	(0.01)	0.1	(<0.01)

Table B.12 Test Data of Uniform Load Structural Test For Rail at handle side of Awning Window

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
2160 Pa (45.11 psf)	1.8	(0.07)	1.3	(0.05)

Table B.13 Test Data of Uniform Load Structural Test For Transom

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
2160 Pa (45.11 psf)	0.5	(0.02)	0.5	(0.02)

Table B.14 Test Data of Uniform Load Structural Test For Mullion

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
2160 Pa (45.11 psf)	2.7	(0.11)	2.1	(0.08)

Table B.15 Test Data of Uniform Load Structural Test For Glazing

Test Pressure	Deflection Measurements, mm (in.)			
	Positive		Negative	
	Perm. Set		Perm. Set	
2160 Pa (45.11 psf)	0.4	(0.02)	0.2	(0.01)

After the test loads were released, there was no failure or permanent deformation of any part of the window system that would cause the test specimen to be inoperable. There was no permanent deformation which was in excess of 0.4% of its span.

The tested specimen met the requirements for Class LC-PG30 for Uniform Load Structure Test as per AAMA/WDMA/CSA 101/I.S.2/A440-17.

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Appendix C: Sample Received Photo



Revision:

NO.	Date	Changes
221125007SHF-001	2022-12-21	First issue