Grand International Procurement Pty Ltd

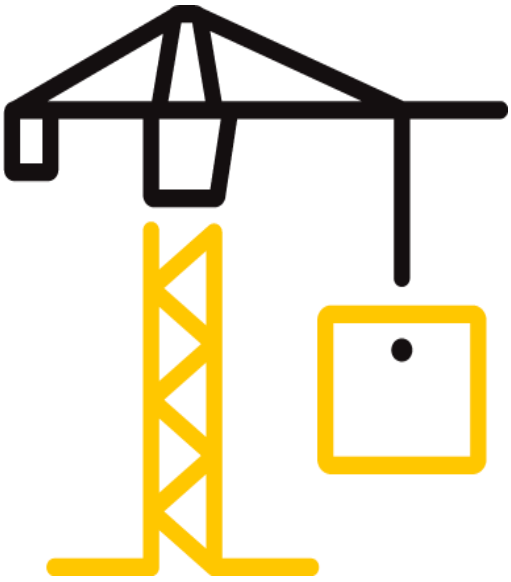
TEST REPORT

SCOPE OF WORK
WINDOWS AND DOORS

REPORT NUMBER
230519206GZC-001

ISSUE DATE
2023/6/25

PAGES
13



Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Issue Date: 2023/6/25 Intertek Report No. : 230519206GZC-001

Applicant:	Grand International Procurement Pty Ltd
Applicant Address:	21 Ingleston Road, Wakerley QLD 4154 Australia
Attn:	gordon@giprocurement.com

Manufacturer:	Foshan Hanhui Door and Window Technology Co., Ltd
Manufacturer Address:	Buxin Industrial Zone, Buxin Avenue, Lishui Town, Nanhai District, Foshan City
Attn:	ying@gzliufeng.com.cn

SUBJECT: Performance testing
< Sliding Window >

Dear Sir,
This test report for represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS
AS 2047:2014 Windows and external glazed doors in buildings

SAMPLE ID	MODEL	SPECIFICATION
S230519206GZU.001	GI-WIN-1212	1208 mm (Width) × 1200 mm (Height) × 48 mm (Thickness)

SAMPLE RECEIVED: 2023/5/19
TESTED FROM: 2023/5/13 TO 2023/6/7

TEST LOCATION: C2-1 Building Heping Fair, Yongning Street, Zengcheng District, Guangzhou, China

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Test Items, Method and Results：

1 Test Samples

A full scale of sample 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

1	Product Name	Sliding Window
2	Model	GI-WIN-1212
3	Dimension of Window Frame	1208 mm (Width) × 1200 mm (Height) × 48 mm (Thickness)
4	Dimension of Window Sash	Operable Sash: 596 mm (Width) × 1135 mm (Height) × 24 mm (Thickness) Fixed Sash: 600 mm (Width) × 1135 mm (Height) × 24 mm (Thickness)
5	Aluminum Profile	Model: HH-AU-48 Material: 6063-T5 Manufacturer: FOSHAN NANHAI JINGZI METAL CO., LTD.
6	Frame Corner Construction Details	Mechanically assembled: Glued & screwed
7	Reinforcement	Not applicable
8	Glazing	Dimension: 580mm (Width) × 1126mm (Height); Quantity: 2 Structure: 5 mm Tempered Glass Supplier: FOSHAN YICHUANG GLASS PRODUCTS CO., LTD
9	Hardware	Specify type: Flush lock; Model: HH-GITLS-000; Supplier: Foshan Hanhui Door and Window Technology Co., Ltd. Specify type: Window pulley; Model: HH-GIS3616 Supplier: Foshan Hanhui Door and Window Technology Co., Ltd.
10	Weather-strip	Model: 5×7 Supplier: Foshan Guantian door and Window Fittings Co., Ltd.
11	Thermal Break	Not applicable
12	Drainage	Size: 25 mm (Width) × 3 mm (Height) Quantity: 2
13	Gasket (between glazing and frame)	Model: (1)GS-UP-5 (2)LA-VP1 Material: PVC Supplier: Guangdong Meirun New Materials Technology Co., Ltd.
14	Sealant of Glass	Not applicable
15	Installation	The exterior perimeter of the test specimen was sealed with silicone sealant.

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Test Items, Method and Results：

2 Test Result

Table 2 Test Results

Test Description	Test Result				Rating	Verdict
Deflection / Span Ratio AS/NZS 4420.1-2016 section 3	Serviceability Design Wind Pressure		± 800 Pa		C2 (General)	Pass
	Structural member #1: ***Mullion***		1/786			
	Structural member #2: ***Sliding sash stile at frame side***		1/440			
Operating Force AS/NZS 4420.1-2016 section 4	Initial Movement Requirement: < 110N		Open	44N	/	Pass
			Close	24N		
	Maintain Movement Requirement: < 90N		Open	23N		
			Close	21N		
Air Infiltration at ±75 Pa AS/NZS 4420.1-2016 section 5	Overall area: 1.45 m^2	at +75Pa:	2.57	$L/s \cdot m^2$	High	Pass
		at -75Pa:	2.32	$L/s \cdot m^2$		
Water Penetration AS/NZS 4420.1-2016 section 6	No water penetration at:		200	Pa	C2 (Non-exposed)	Pass
	Description: Water overflowed beyond the innermost edge of frame when tested at 300Pa.					
Ultimate Strength Test AS/NZS 4420.1-2016 section 7		±	2700	Pa with no collapse	C2 (General)	Pass
	Description: No significant breakage, permanent deformation or operational malfunction after ultimate strength was released.					

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Appendix A: Test Data and Sample Drawings:

A.1 Deflection Test – Test method AS/NZS 4420.1-2016

Test Pressure (Serviceability design wind pressure), P=800 Pa, rating C2 (General).

Note : No structural members in a completely assembled and glazed window shall deflect by an amount greater than the following, when tested at the serviceability design wind pressure:

(a) Span/250 for windows and sliding doors

(b) Span/100 for doors other than sliding

Table 3 Test Data of Deflection Test

Member (mm)		Test Pressure (Pa)	Displacement(mm)			Actual Deflection	Deflection/Span Ratio
Item	Span Length		1	2	3		
Mullion	1100	+P/4=200	0.0	0.4	0.1	0.4	/
		+2P/4=400	0.1	0.8	0.2	0.7	/
		+3P/4=600	0.4	1.4	0.4	1.0	/
		+4P/4=800	0.8	2.0	0.6	1.3	1:846
		0	0.2	0.2	0.2	<0.1	/
Mullion	1100	-P/4=-200	0.0	0.3	0.0	0.3	/
		-2P/4=-400	0.1	0.8	0.2	0.7	/
		-3P/4=-600	0.5	1.5	0.5	1.0	/
		-4P/4=-800	1.0	2.4	1.0	1.4	1:786
		0	0.4	0.3	0.2	0.1	/

Table 4 Test Data of Deflection Test

Member (mm)		Test Pressure (Pa)	Displacement(mm)			Actual Deflection	Deflection/Span Ratio
Item	Span Length		4	5	6		
Sliding sash stile at frame side	1100	+P/4=200	0.0	1.3	0.0	1.3	/
		+2P/4=400	0.0	1.7	0.1	1.7	/
		+3P/4=600	0.2	2.0	0.1	1.9	/
		+4P/4=800	0.4	2.3	0.2	2.0	1:550
		0	0.4	0.4	0.1	0.2	/
Sliding sash stile at frame side	1100	-P/4=-200	0.0	0.8	0.0	0.8	/
		-2P/4=-400	0.0	1.4	0.0	1.4	/
		-3P/4=-600	0.1	1.9	0.1	1.8	/
		-4P/4=-800	0.3	2.7	0.1	2.5	1:440
		0	0.1	0.2	0.1	0.1	/

A.2 Sample Drawings

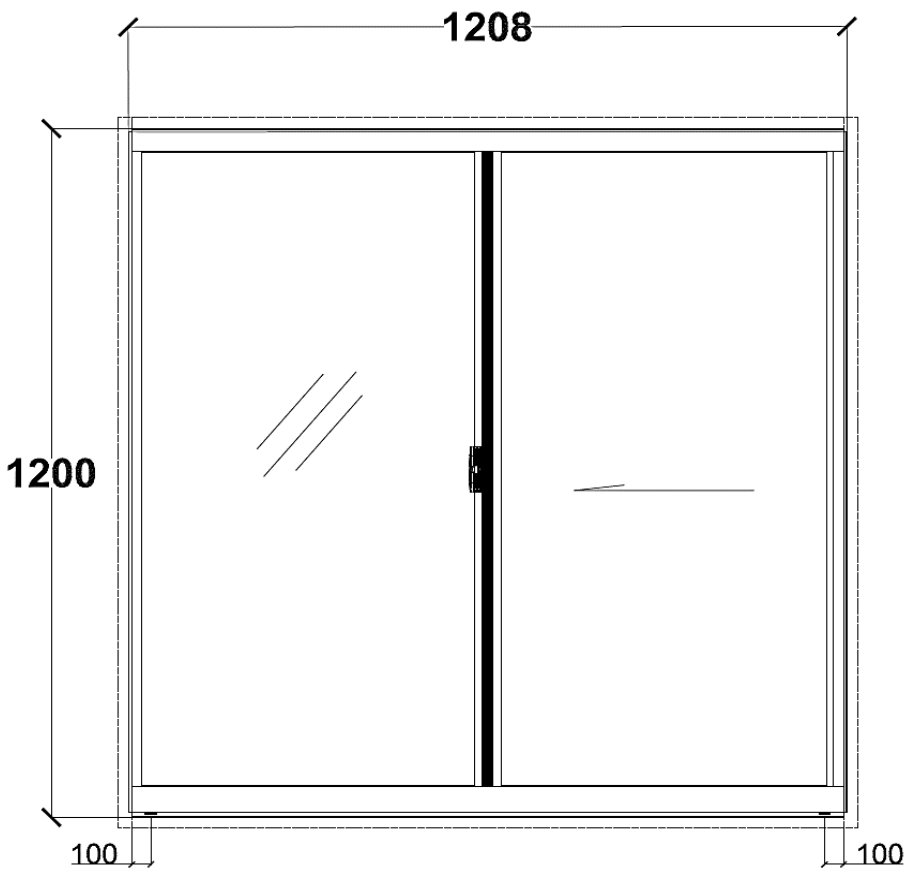


Fig.1 Drawing of Representative Sample (View from interior)

A.2 Sample Drawings(Cont.)

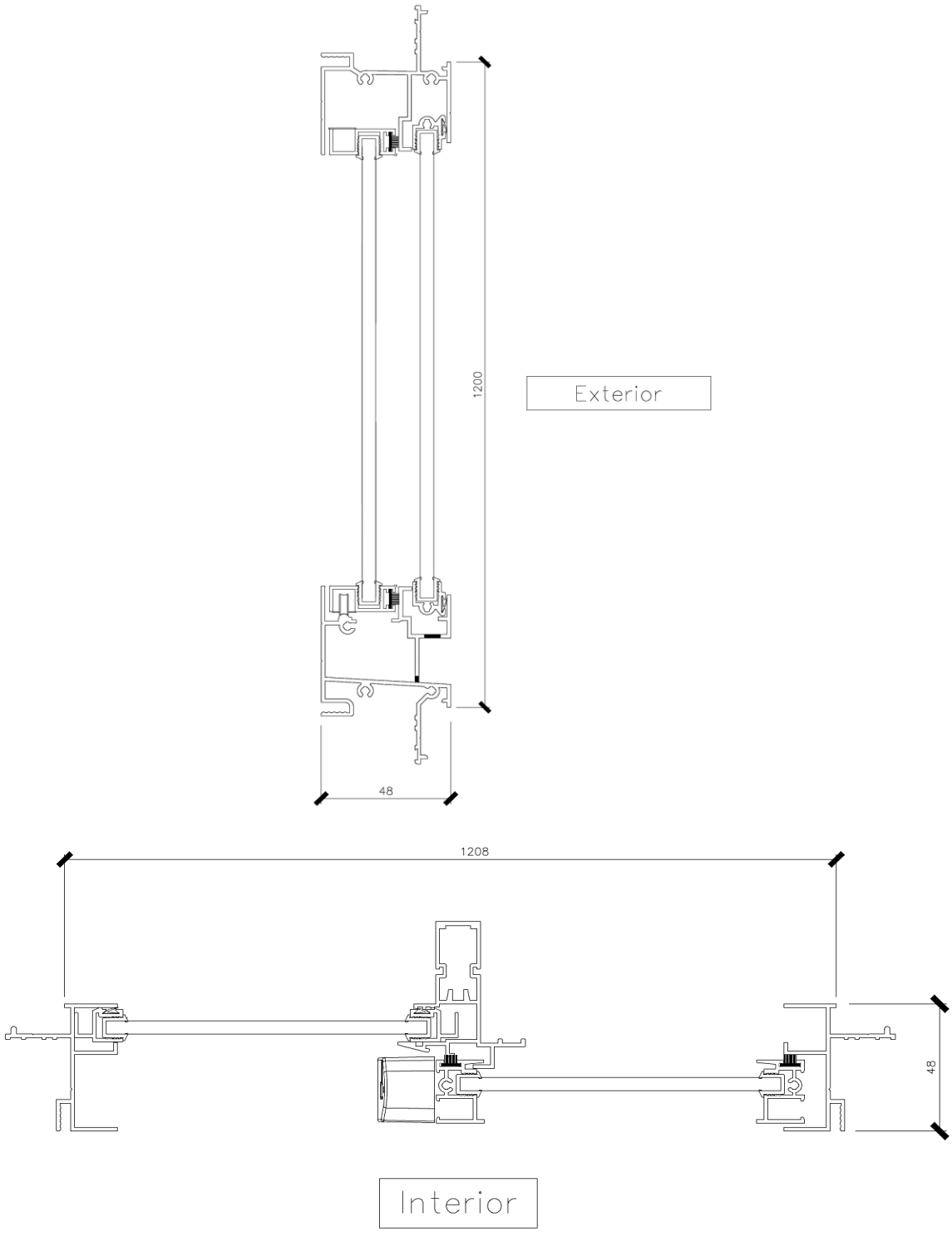


Fig.2 Drawing of Representative Sample

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A.2 Sample Drawings(Cont.)

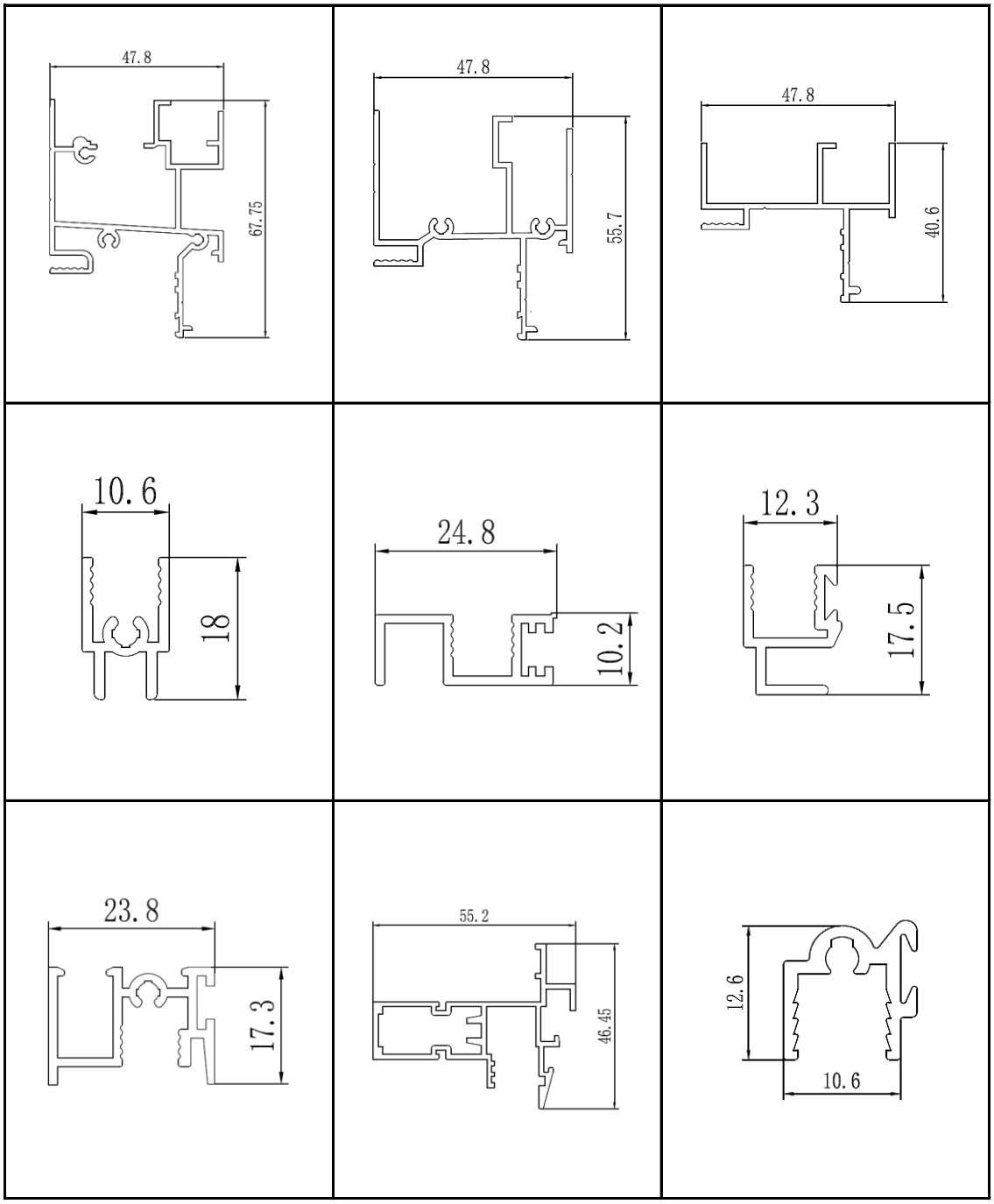


Fig.3 Drawing of profile

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A.2 Sample Drawings(Cont.)

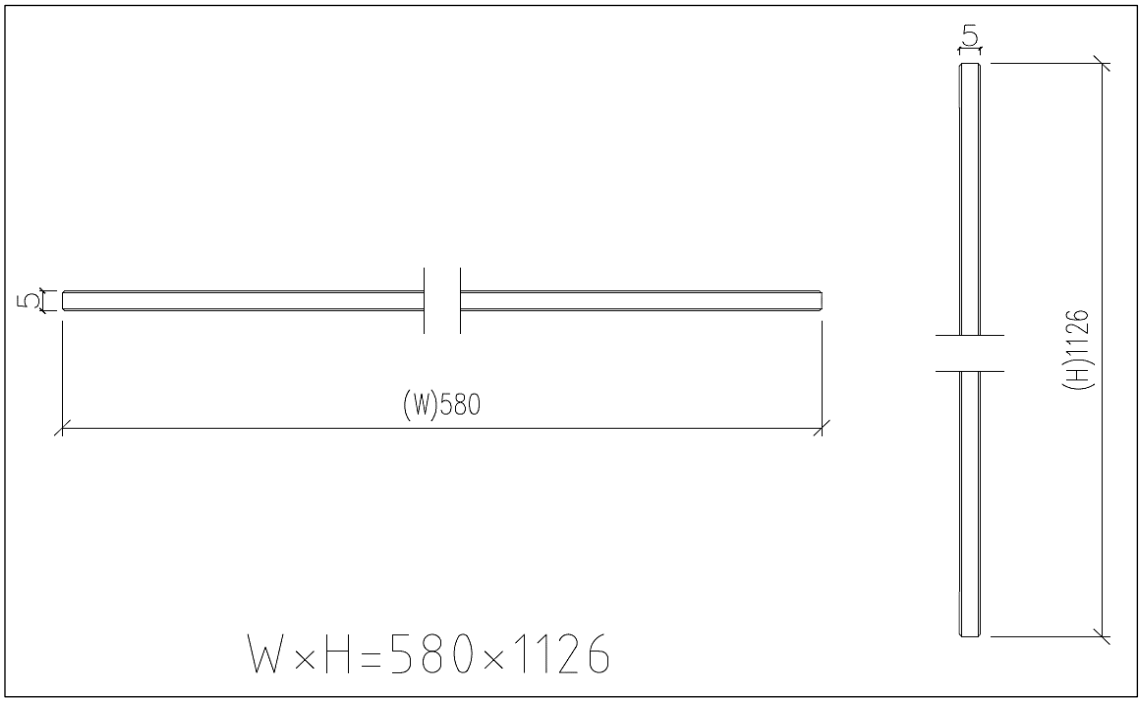


Fig.4 Drawing of glazing

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A.2 Sample Drawings(Cont.)

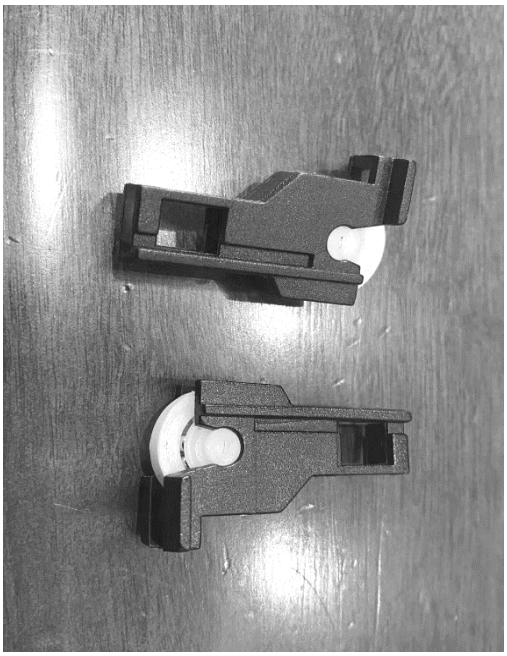
	
Flush lock	Window pulley

Fig.5 Photo of hardware

A.2 Sample Drawings(Cont.)

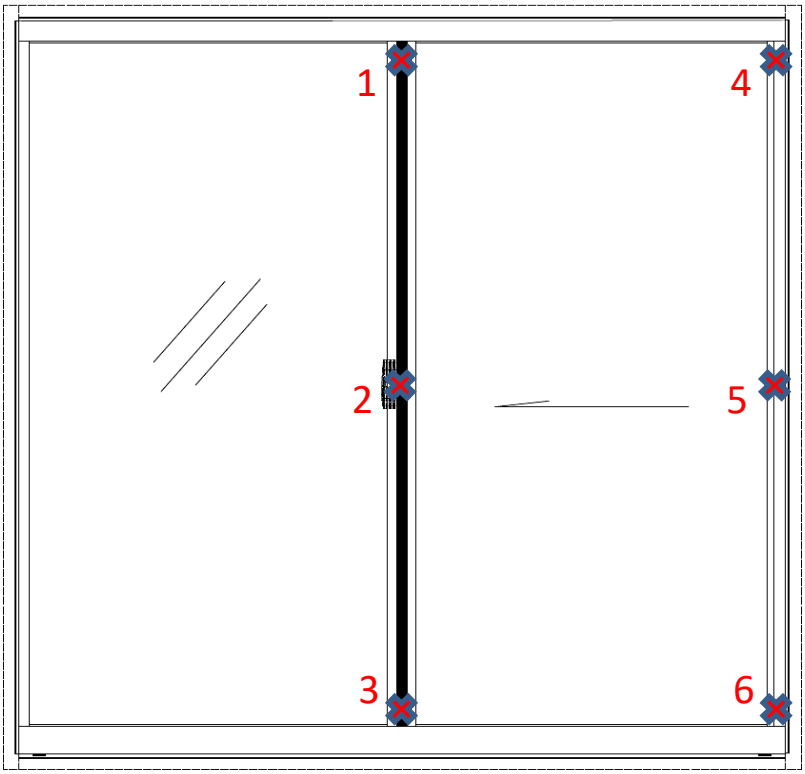


Fig.6 Locations of Displacement Measuring Devices

A.2 Sample Drawings(Cont.)

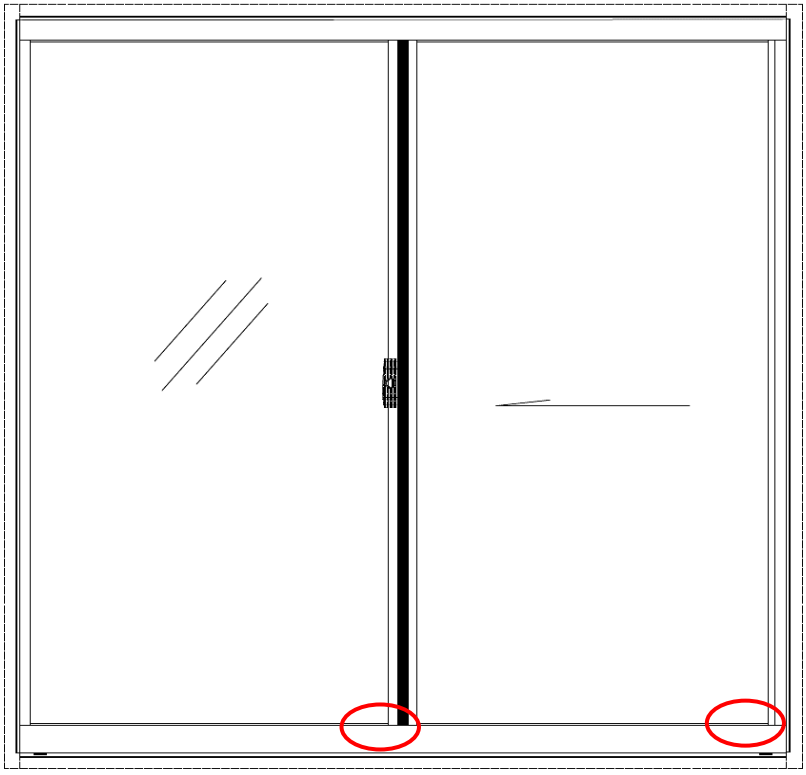
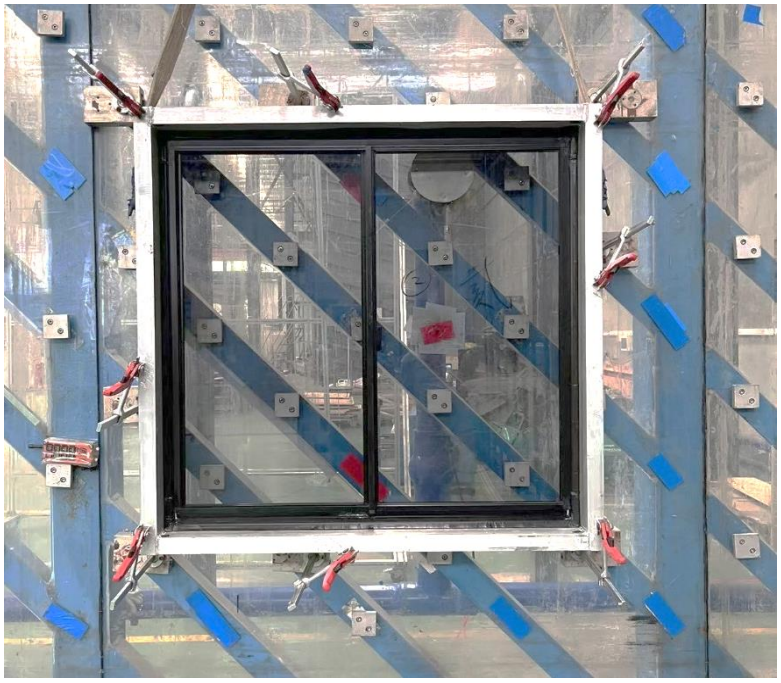


Fig.7 Locations of water penetration

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APPENDIX B: Sample Received Photo



REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

Approved by:	**Prepared by:**
Ziqing Chen	Oliver zhu
Name: Ziqing Chen	Name: Oliver Zhu
Title: Reviewer	Title: Project Engineer

Revision:

Revision No.	Date	Revision Reason	Revision Summary	Author	Reviewer
R0	/	/	Original Report Issue	/	/

End of Test Report