Guangzhou Liufeng Trading Co., Ltd.

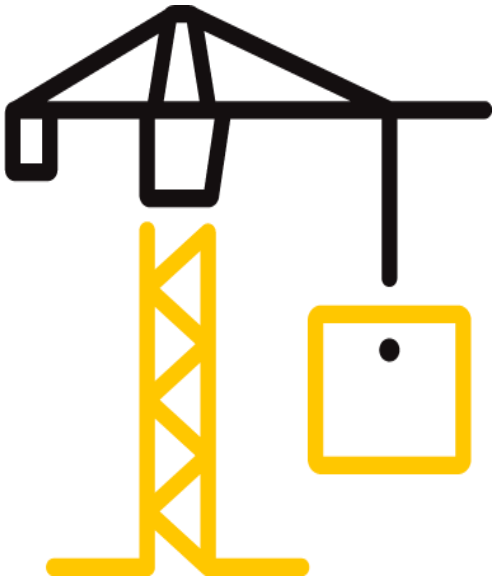
TEST REPORT

SCOPE OF WORK
WINDOWS AND DOORS

REPORT NUMBER
250915235GZC-001

ISSUE DATE
2025/11/14

PAGES
15



Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

DOCUMENT CONTROL NUMBER
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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
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Website: www.intertek.com

Test Report

Issue Date: 2025/11/14 Intertek Report No. : 250915235GZC-001

Applicant:	Guangzhou Liufeng Trading Co., Ltd.
Address:	Room 811, No. 316 Huanshi Mid- way Road, Yuexiu District, Guangzhou, Guangdong, P.R. China
Attn:	ying@gzliufeng.com.cn

Manufacturer:	Foshan Hanhui Door and Window Technology Co., Ltd
Address:	Buxin Industrial Zone, Buxin Avenue, Lishui Town, Nanhai District, Foshan
Attn:	13909959306

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+A1:2016+A2:2017 Windows and external glazed doors in buildings

SAMPLE ID	MODEL	SPECIFICATION
S250915235GZU.001	GI-WIN1212-C2-450	1210 mm (Width) × 1210 mm (Height) × 48 mm (Thickness)

SAMPLE RECEIVED: 2025/9/18
TESTED FROM: 2025/9/28 TO 2025/9/28

TEST LOCATION: C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China.

****

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Test Report

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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-WIN1212-C2-450
3	Dimension of Window Frame	1210 mm(Width) x 1210 mm(Height) x 48 mm(Thickness)
4	Dimension of Window Sash	Operable sash: 596 mm(Width) x 1131 mm(Height) x 24 mm(Thickness)
5	Aluminum Profile	Model: HH-AU-48-300 Material code: 6063-T5 Manufacturer: Foshan Hanhui Door and Window Technology Co., Ltd.
6	Frame Corner Construction Details	Mechanically assembled: Glued & screwed
7	Reinforcement	Not Applicable
8	Glazing	Dimension: 580 mm(Width) x 1116 mm(Height); Quantity: 2 Structure: 5 mm Tempered Glass Supplier: Guangdong Qiangye Glass Products Co., Ltd.
9	Hardware	Flush lock Model: HH-GITLS-000 Supplier: Foshan Hanhui Door and Window Technology Co., Ltd. Pulley Model: HH-GIS3616 Supplier: Foshan Hanhui Door and Window Technology Co., Ltd.
10	Weather-strip	Model: 5×7 Supplier: Guangdong Meirun New Materials Technology Co., Ltd.

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Table 1 Product Information

11	Thermal Break	Not Applicable
12	Drainage	Sizes: 15 mmx 5mm (Width x Height) quantity: 7 Sizes: 30 mmx 3mm (Width x Height) quantity: 6
13	Gasket	Model: LA-VP1 Material: PVC Supplier: Guangdong Meirun New Materials Technology Co., Ltd.
14	Sealant of Glass	Model: GS-UP-5 Material: PVC Supplier: Guangdong Meirun New Materials Technology Co., Ltd.
15	Installation	The rough opening allowed for a 10mm shim space. 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		N4/C2 (General) N3/C1 (Corner windows)	Pass
	Structural member #1: ***Operable sash stile***		1/647			
	Structural member #2: ***Interlocking stile***		1/793			
Operating Force AS/NZS 4420.1-2016 section 4	Initial Movement Requirement: < 110N		Open	32 N	NA	Pass
			Close	36 N		
	Maintain Movement Requirement: < 90N		Open	18 N		
			Close	16 N		
Air Infiltration AS/NZS 4420.1-2016 section 5	Overall area: 1.46 m^2	at +75Pa:	2.10	$L/s \cdot m^2$	High	Pass
		at -75Pa:	2.10	$L/s \cdot m^2$		
Water Penetration AS/NZS 4420.1-2016 section 6	No water penetration at:		450 Pa		N6/C4 (Non-exposed) N5/C3 (Exposed)	Pass
	Description: Water overflowed beyond the innermost profile edge and flowed into interior when tested at 600Pa for 20 seconds.					
Ultimate Strength AS/NZS 4420.1-2016 section 7			± 2700	Pa with no collapse	N4/C2 (General) N3/C1 (Corner windows)	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: N4 (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		
Operable sash stile	1100	+P/4=200	0.1	0.3	0.0	0.3	/
		+2P/4=400	0.1	0.3	0.0	0.3	/
		+3P/4=600	0.1	0.4	0.0	0.4	/
		+4P/4=800	0.2	0.5	0.1	0.4	1:2750
		0	0.1	0.1	0.0	0.1	/
Operable sash stile	1100	-P/4=-200	0.1	0.6	0.0	0.6	/
		-2P/4=-400	0.1	1.0	0.0	1.0	/
		-3P/4=-600	0.1	1.4	0.0	1.4	/
		-4P/4=-800	0.1	1.8	0.1	1.7	1:647
		0	0.0	0.3	0.1	0.3	/

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		
Interlocking stile	1110	+P/4=200	0.0	0.4	0.1	0.4	/
		+2P/4=400	0.0	0.8	0.2	0.7	/
		+3P/4=600	0.1	1.2	0.3	1.0	/
		+4P/4=800	0.3	1.8	0.5	1.4	1:793
		0	0.1	0.1	0.1	<0.1	/
Interlocking stile	1110	-P/4=-200	0.0	0.4	0.1	0.4	/
		-2P/4=-400	0.0	0.8	0.2	0.7	/
		-3P/4=-600	0.2	1.3	0.4	1.0	/
		-4P/4=-800	0.5	1.9	0.7	1.3	1:854
		0	0.1	0.1	0.1	<0.1	/

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A.2 Sample Drawings

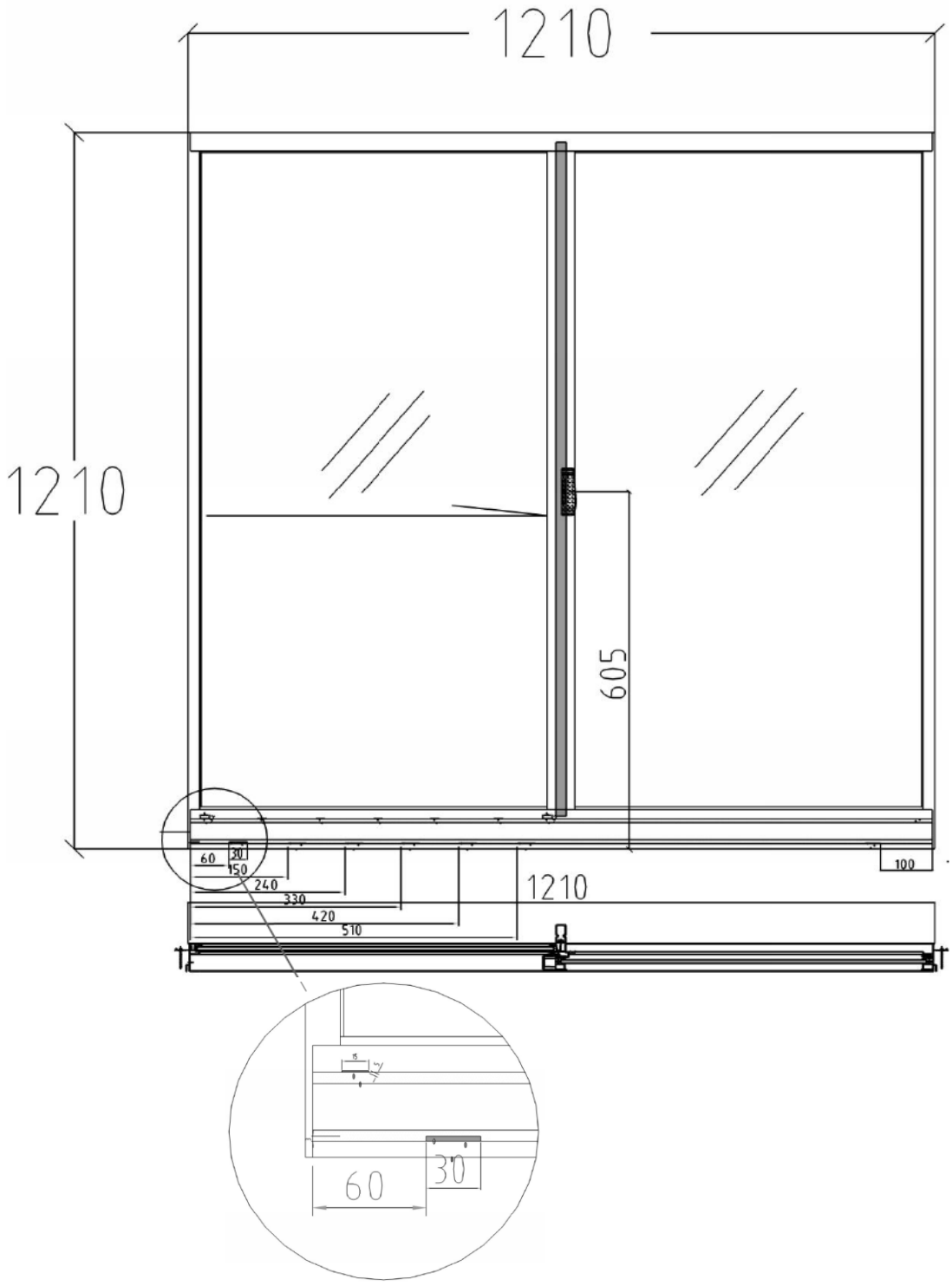


Fig.1 Drawing of Representative Sample (View from outside)

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A.2 Sample Drawings(Cont.)

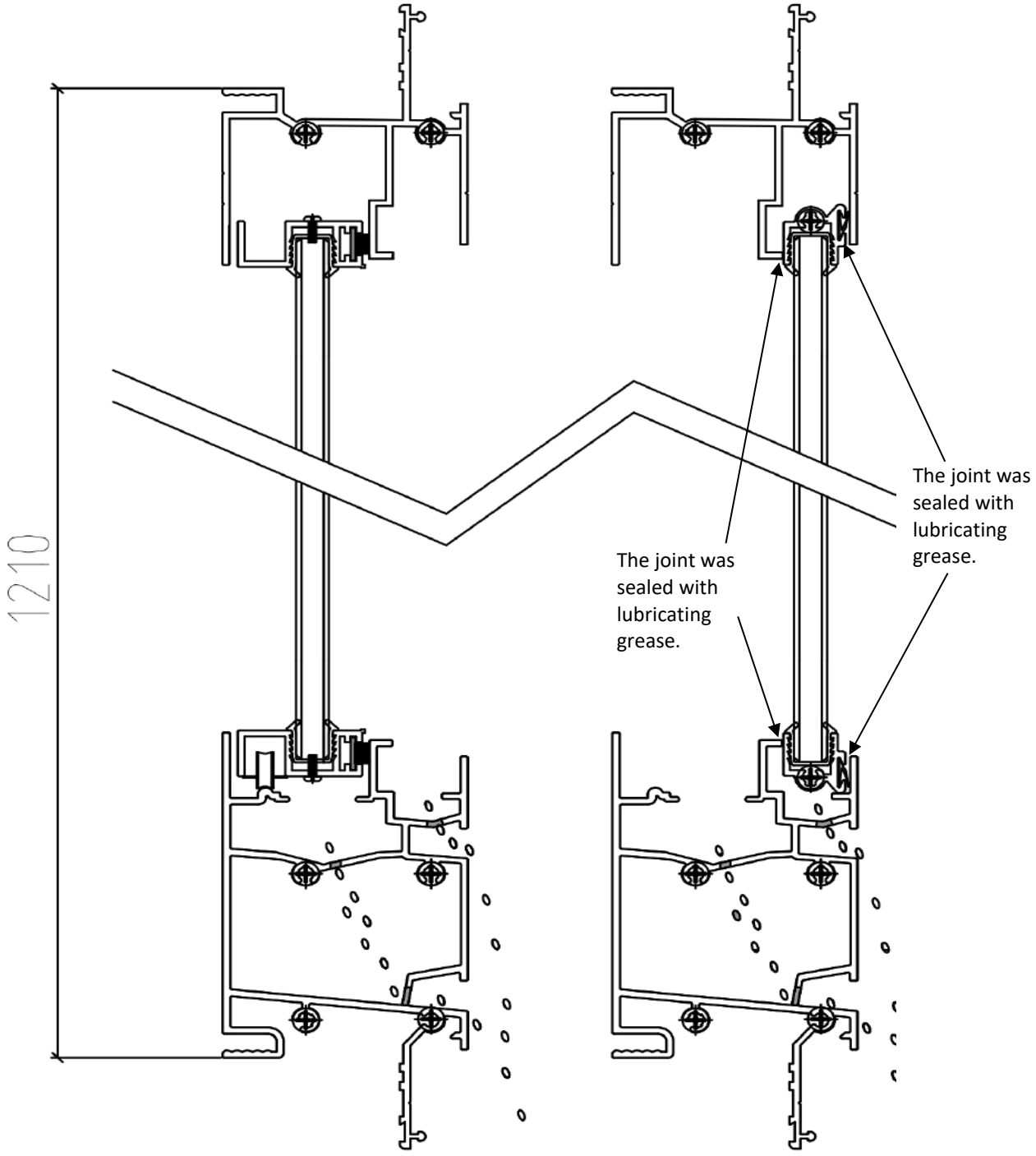


Fig.2 Drawing of Representative Sample

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A.2 Sample Drawings(Cont.)

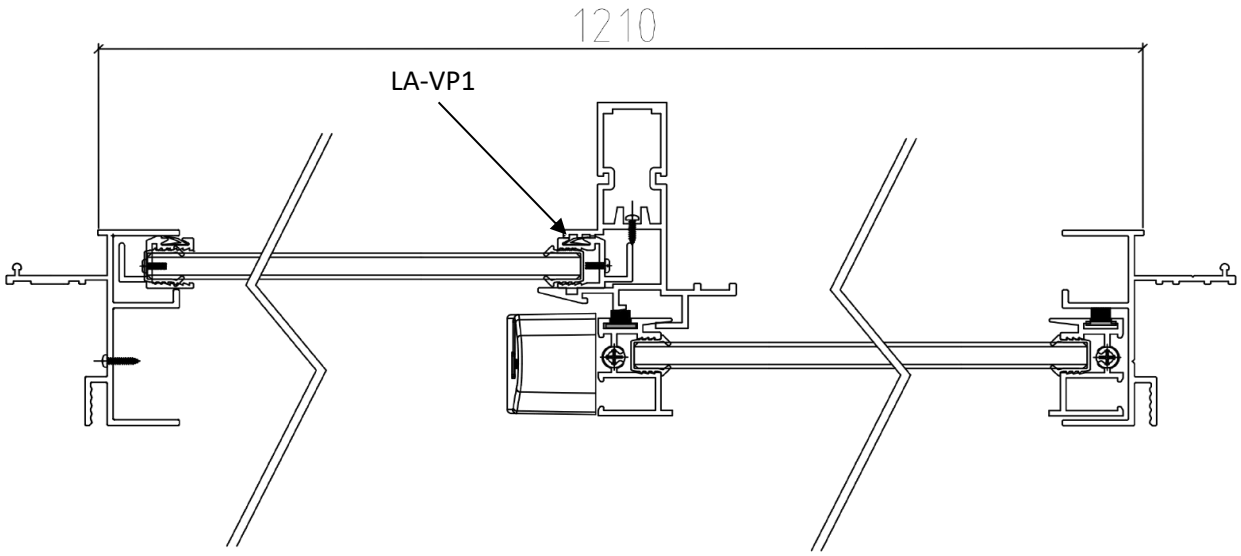


Fig.3 Drawing of Representative Sample

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A.2 Sample Drawings(Cont.)

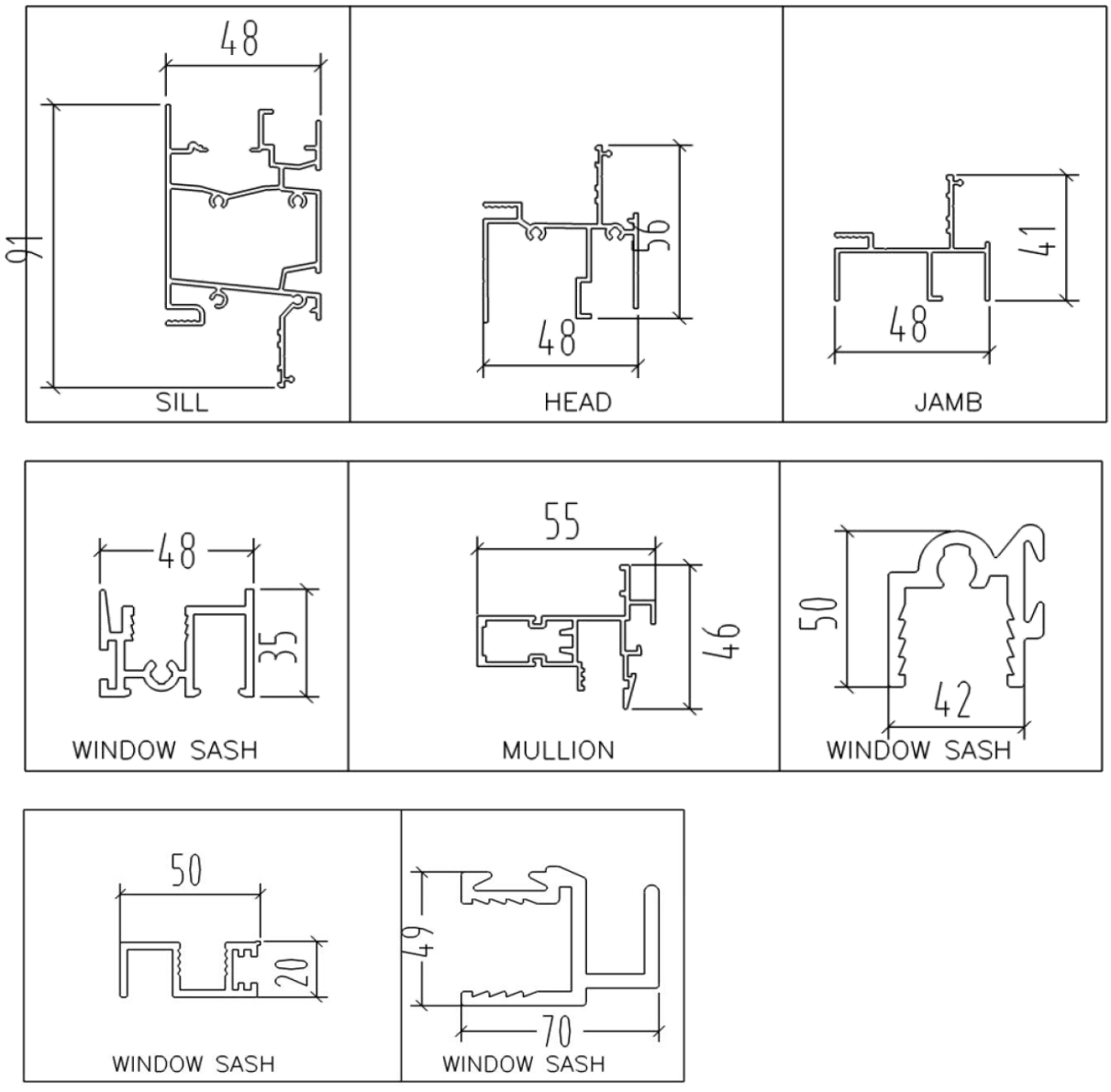


Fig.4 Drawing of Aluminum Profile

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A.2 Sample Drawings(Cont.)

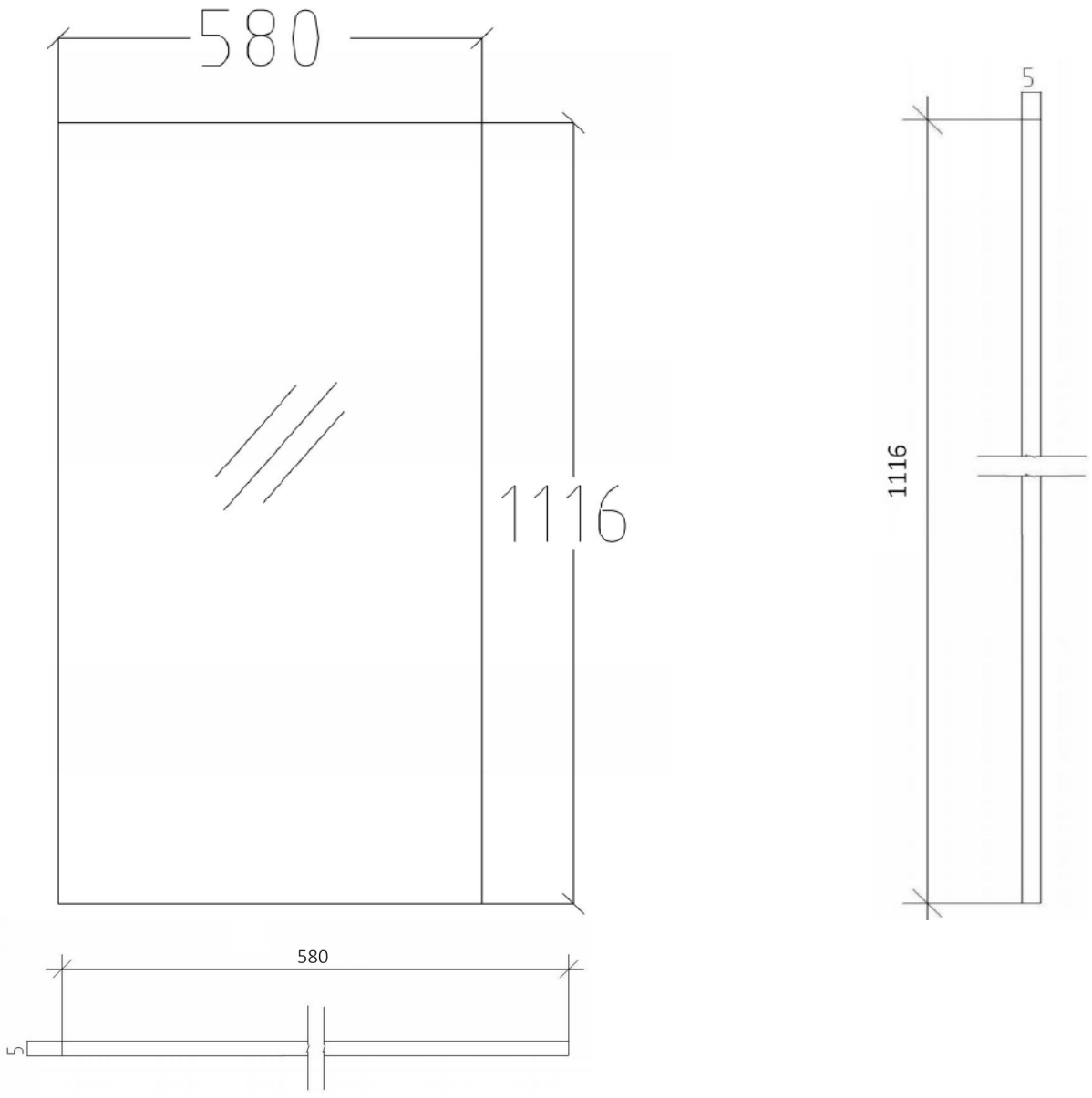
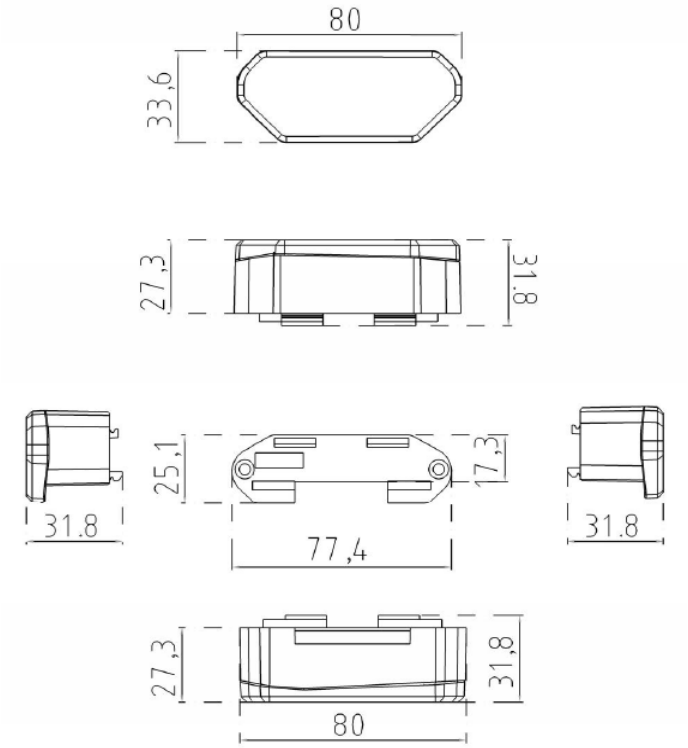


Fig.5 Drawing of Glazing

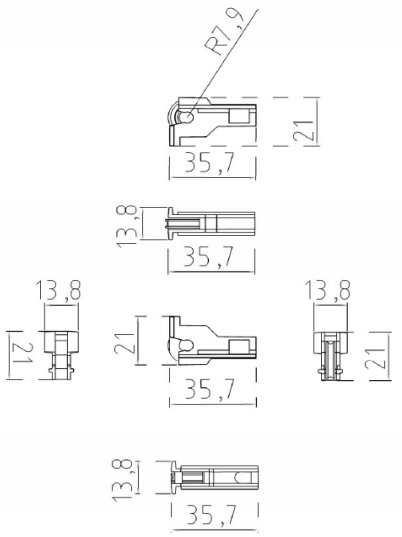
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A.2 Sample Drawings(Cont.)



Lock



Pulley

Fig.6 Drawing of Hardware

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A.2 Sample Drawings(Cont.)

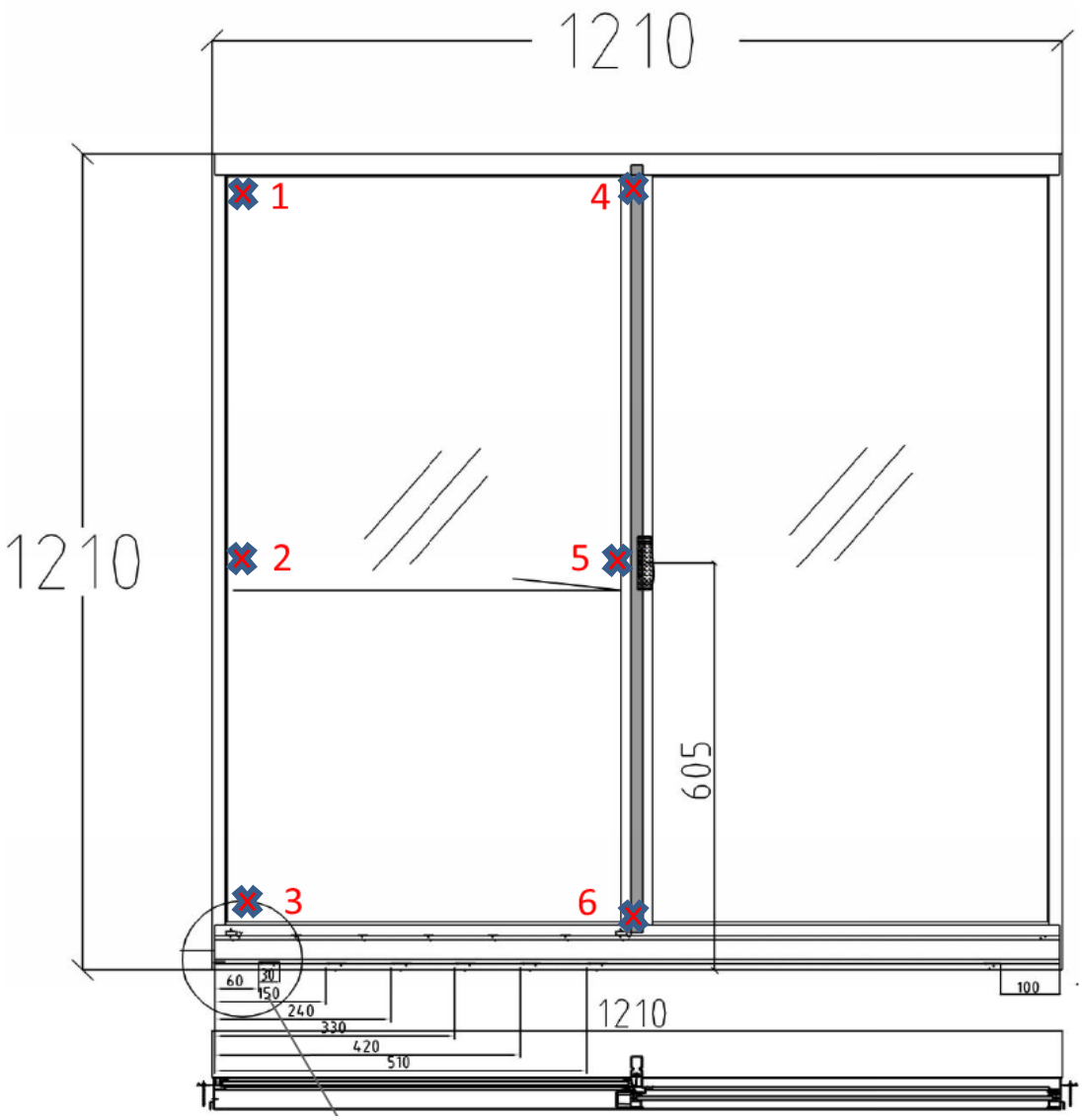


Fig.7 Locations of Displacement Measuring Devices

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A.2 Sample Drawings(Cont.)

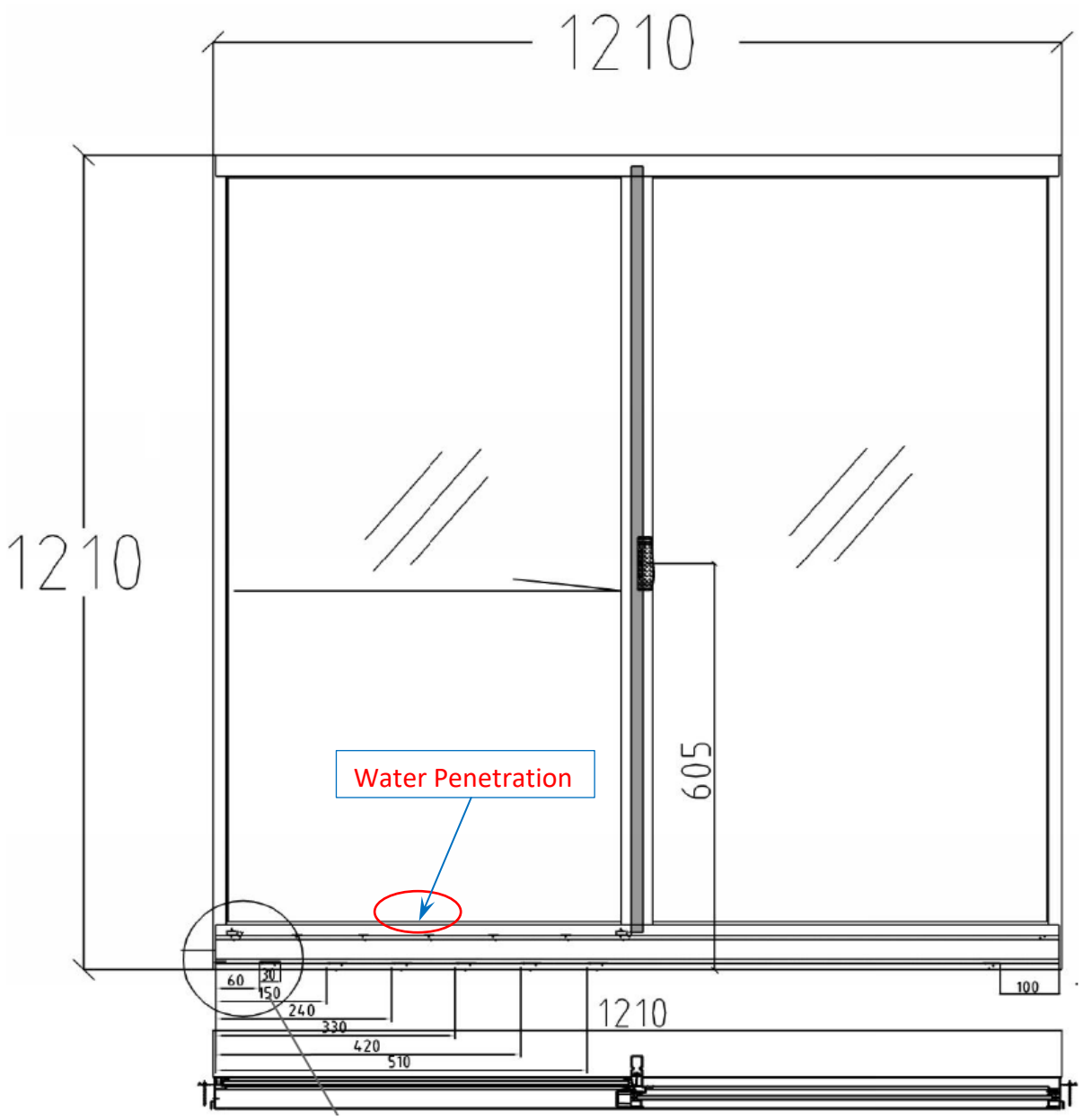


Fig.8 Location of Water Penetration

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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:**
Oliver zhu	leo. Li
Name: Oliver Zhu	Name: Leo Li
Title: Reviewer	Title: Project Engineer

Revision:

Revision No.	Date	Revision Summary	Author	Reviewer
R0	2025/11/14	Original Report Issue	/	/

End of Test Report