

Fengdu New Material (Yancheng) Co., Ltd.

TEST REPORT

SCOPE OF WORK

Lift-Sliding Door

REPORT NUMBER

240821010SHF-002

TEST DATE(S)

2024-10-09

ORIGINAL ISSUE DATE

2024-12-11

PAGES

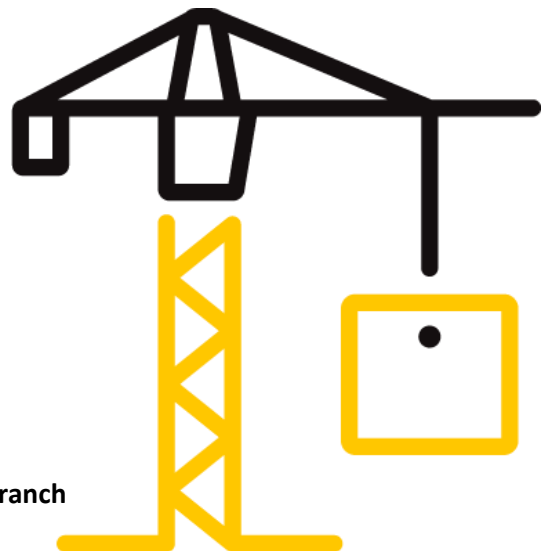
14

DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10I(February 1, 2024)

© 2024 INTERTEK

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

Statement

- 1.This report is invalid without company's special seal for testing on the assigned page.
- 2.This report is invalid without an authorized person's signature.
- 3.This report is invalid if altered.
- 4.Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Don't copy this report in partial without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.
- 5.This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- 6.Except for the obligation, responsibility and liability (if any) for the appropriateness and professionalism of afore-mentioned testing itself within the scope and amount of the testing fee received, Intertek does not and will not accept any other obligation or liability.
- 7.If the Client has any questions about the test results, Intertek B&C should be informed within the storage period of the samples. The sample storage period ends 5 working days after the official report issue date. Samples of certification program are retained for the period required by the certification rules. The samples storage period shall be calculated according to the issue date of the original report in the case of quoting results and modifying reports.
- 8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
- 9.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.

Test Report

Original Issue Date: 2024-12-11 Intertek Report No. 240821010SHF-002

Applicant: Fengdu New Material (Yancheng) Co., Ltd.
Address: Block 4#-6#, Changzhou Road, Changzhou Industry Park, Dafeng District, Yancheng City, Jiangsu Province, China
Attn: Wu Yifeng
Manufacturer: Fengdu New Material (Yancheng) Co., Ltd.
Address: Block 4#-6#, Changzhou Road, Changzhou Industry Park, Dafeng District, Yancheng City, Jiangsu Province, China
Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
Lift-Sliding Door	140 Series	3000mm(Width) x 2400mm(Height)
Sample ID	Sample Amount	Sample Received Date
S240821010SHF.002	1 Set	2024-10-08
Sample ID	Sample Description	
FengDu	The sample was a completely assembled, glazed, functional product (including hardware) and fully operable, fitted in the test apparatus in accordance with documented instructions.	

Test Methods And Standards

Test Standard	AS/NZS 4420.1-2016 Windows, external glazed, timber and composite doors - Methods of test Part 1: Test sequence, sampling and test methods
Specification Standard	AS 2047-2014 Windows and external glazed doors in buildings (Amdt 2-2017)
Test Conclusion	The results met the applicable requirements specified in AS 2047-2014 (Amdt 2-2017), and the results were shown in the following page.

Note: 1. This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized


Name: Gio Liu Title: Reviewer

Name: John Zhang Title: Project Engineer



Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002

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	Lift-Sliding Door
2	Model	140 Series
3	Dimension of Door Frame	3000mm(Width) x 2400mm(Height) x 140mm(Thickness)
4	Dimension of Door Leaf	Operable Sash: 1487mm(Width) x 2296 mm(Height) x 60mm(Thickness) Fixed Sash: 1487mm (Width) x 2296mm(Height) x 60mm(Thickness)
5	Profile	Model: 140 Series Material: Glass Fiber Reinforced Polyurethane Composite Profile Supplier: Chongqing Fengdu New Materials Co., Ltd.
6	Corner Construction Details: Joinery Type	45° cut, assembly with corners keys and glued;
7	Reinforcement	None
8	Glazing	Dimension: 1339mm(Width) x 2148mm(Height) x 2 Pieces Structure: 39mm thickness, 5mm Low-E + 12mm Ar + 5mm Low-E + 12mm Ar + 5mm Tempered Glass; Supplier: CSG Holding
9	Hardware	Specify Type: Push-pull Patio Lift Series (See Fig.6) Supplier: German Roto
10	Weather Strip	Not Applicable
11	Thermal Break	Not Applicable
12	Drainage	Sizes: 32mm(Width) x 6mm(Height); Quantity: 4
13	Sealing Strip	Model: JT5091, JT5071, JT5052, JT5011; Material: EPDM Supplier: Haida Model: 7*9; Material: Brush Seal Supplier: Hebei Lidejia
14	Sealant	Model: 166 Neutral Silicone Sealant; Material: Silicone Sealant Supplier: German Weiss
15	Installation	The rough opening allowed for a 6mm shim space. The perimeter of the tested specimen was fixed by screws every 300mm and sealed with silicone sealant.

Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002

Test Items, Method and Results:

2 Test Result

Table 2 Test Results

Test Description	Test Result		Verdict
Serviceability Design Wind Pressure AS/NZS 4420.1-2016 Section 3	±	1200 Pa	Pass
Deflection / Span Ratio Framing Member 1	Mullion	1/376	
Deflection / Span Ratio Framing Member 2	Stile at handle side	1/822	
Operating Force AS/NZS 4420.1-2016 Section 4	Initial Movement	Required ≤ 180 N	Pass
		Open 99 N	
		Close 97 N	
	Maintain Movement	Required ≤ 110 N	
		Open 63 N	
		Close 61 N	
Air Infiltration at ±75 Pa AS/NZS 4420.1-2016 Section 5	at +75Pa	0.30 L/s·m ²	Pass
	at -75Pa	0.32 L/s·m ²	
	Air Infiltration Level	Low	
Water Penetration AS/NZS 4420.1-2016 Section 6	No water penetration at	200 Pa	Pass
	Description: After water sprayed for 2 minutes at 300 Pa, the water overflowed from the slider.		
Ultimate Strength Test Pressure AS/NZS 4420.1-2016 Section 7	+	3000 Pa with no collapse	Pass
	-	3000 Pa with no collapse	
	Description: No significant breakage, permanent deformation or operational malfunction after ultimate strength was released.		

Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002

Appendix A: Test Data and Sample Drawings:

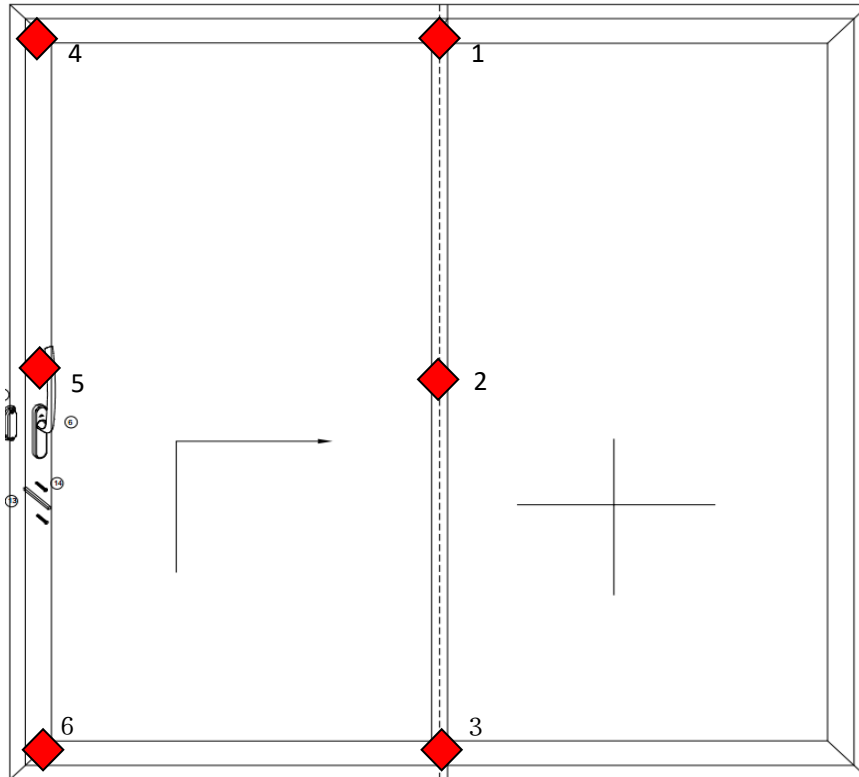
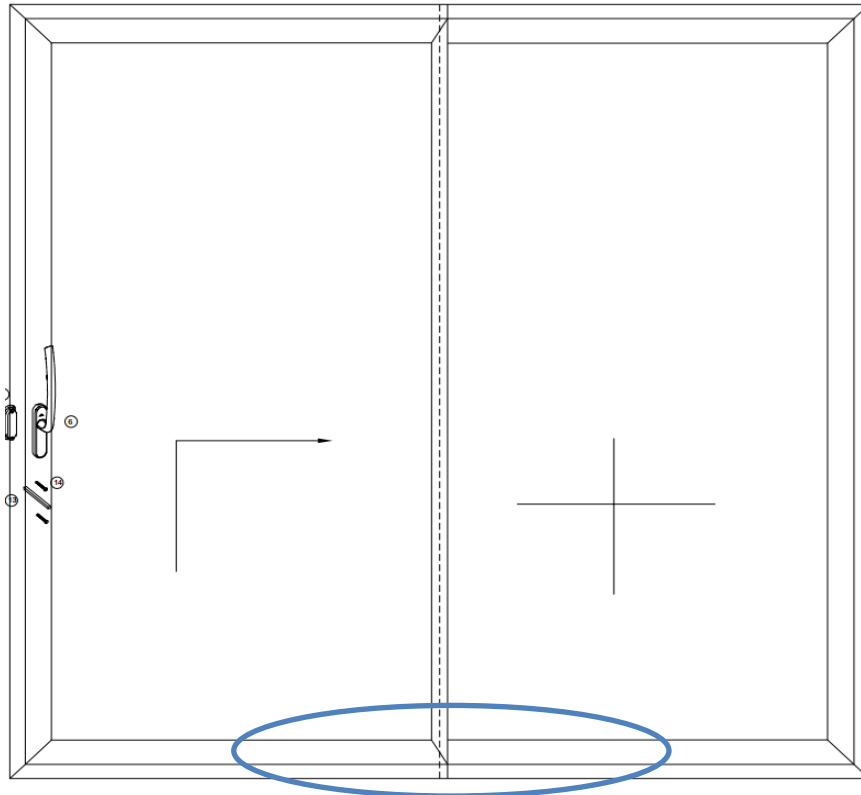


Fig.1 Locations of Displacement Measuring Devices

Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002



○ : Water penetration positions at 300 Pa

Fig.2 Location of Water Penetration

Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002

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 = 1200 Pa.

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:

Span/250 for windows and sliding doors.

Span/100 for doors other than sliding.

Table 3 Test Data of Deflection Test

Member (mm)		Test Pressure (Pa)	Deflection (mm)			Actual Deflection	Deflection /Span Ratio
Item	Span Length		1	2	3		
Mullion	2220	+P/4 = 300	0.9	2.2	0.3	1.6	1:1388
		+2P/4 = 600	1.7	4.3	0.9	3.0	1:740
		+3P/4 = 900	2.6	6.7	2.1	4.4	1:505
		+4P/4 = 1200	3.2	8.8	2.7	5.9	1:376
		0	0.2	0.6	1.1	0.5	1:4440
Mullion	2220	-P/4 = -300	0.9	2.4	0.3	1.8	1:1233
		-2P/4 = -600	2.0	4.6	0.8	3.2	1:694
		-3P/4 = -900	3.1	7.0	1.9	4.5	1:493
		-4P/4 = -1200	3.7	8.9	2.7	5.7	1:389
		0	0.4	0.7	1.1	0.4	1:5550

Table 4 Test Data of Deflection Test

Member (mm)		Test Pressure (Pa)	Deflection (mm)			Actual Deflection	Deflection /Span Ratio
Item	Span Length		4	5	6		
Stile at handle side	2220	+P/4 = 300	0.6	1.0	0.2	0.6	1:3700
		+2P/4 = 600	1.2	2.1	0.4	1.3	1:1708
		+3P/4 = 900	1.9	2.8	0.7	1.5	1:1480
		+4P/4 = 1200	2.5	3.5	0.9	1.8	1:1233
		0	1.2	0.2	0.1	0.6	1:3700
Stile at handle side	2220	-P/4 = -300	0.2	0.9	0.1	0.8	1:2775
		-2P/4 = -600	0.4	2.0	0.4	1.6	1:1388
		-3P/4 = -900	0.8	2.9	0.7	2.2	1:1009
		-4P/4 = -1200	1.1	3.7	0.9	2.7	1:822
		0	0.5	0.2	0.2	0.2	1:11100

Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002

Appendix A: Test Data and Sample Drawings:
A.2 Sample Drawings

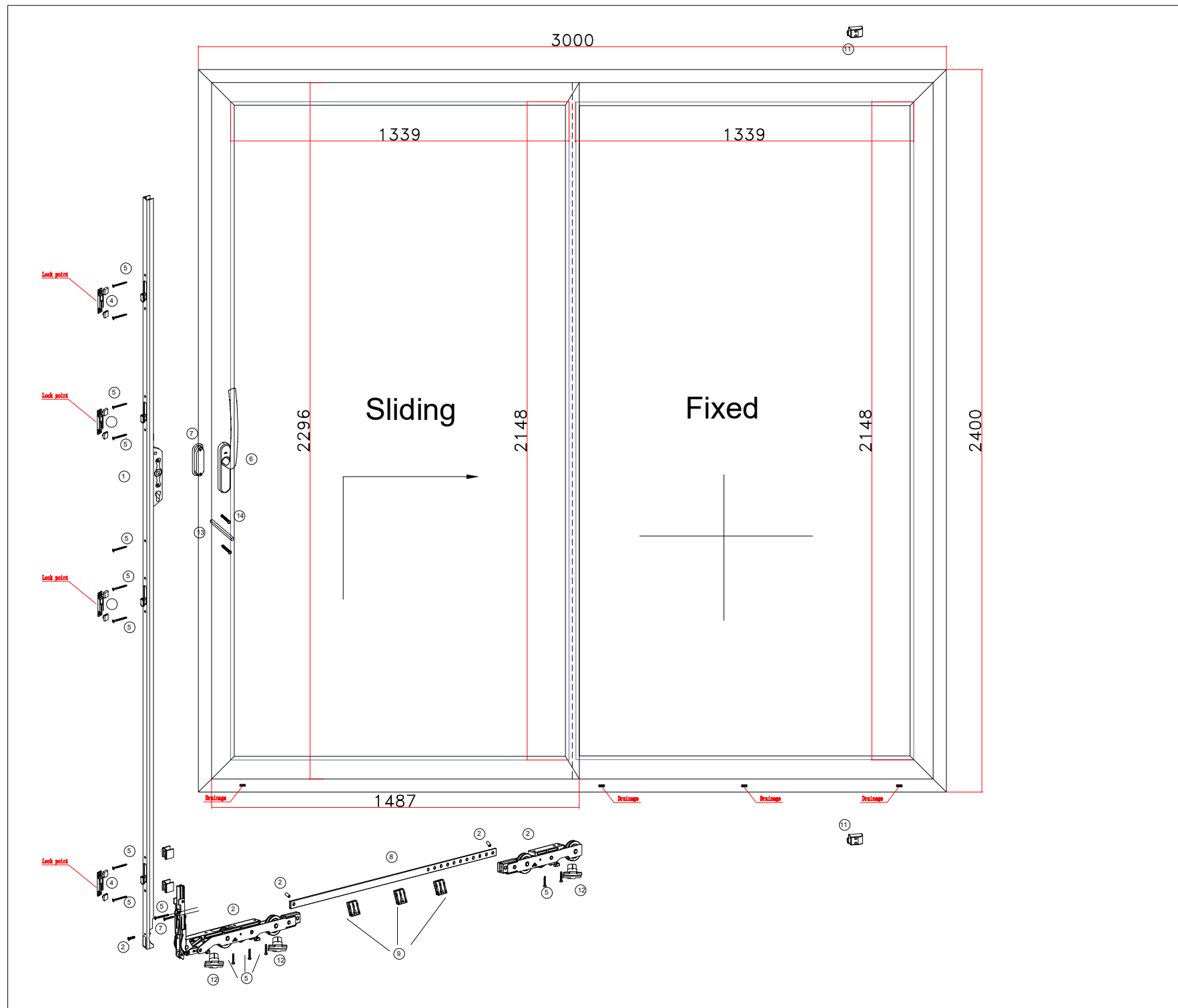


Fig.3 Drawing of Representative Sample

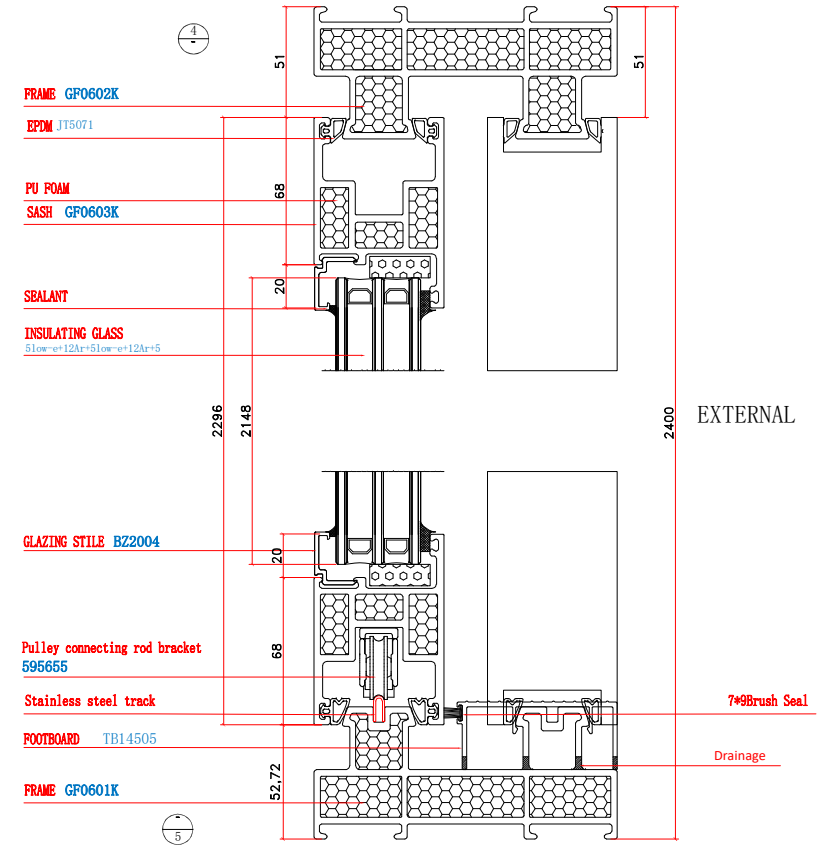
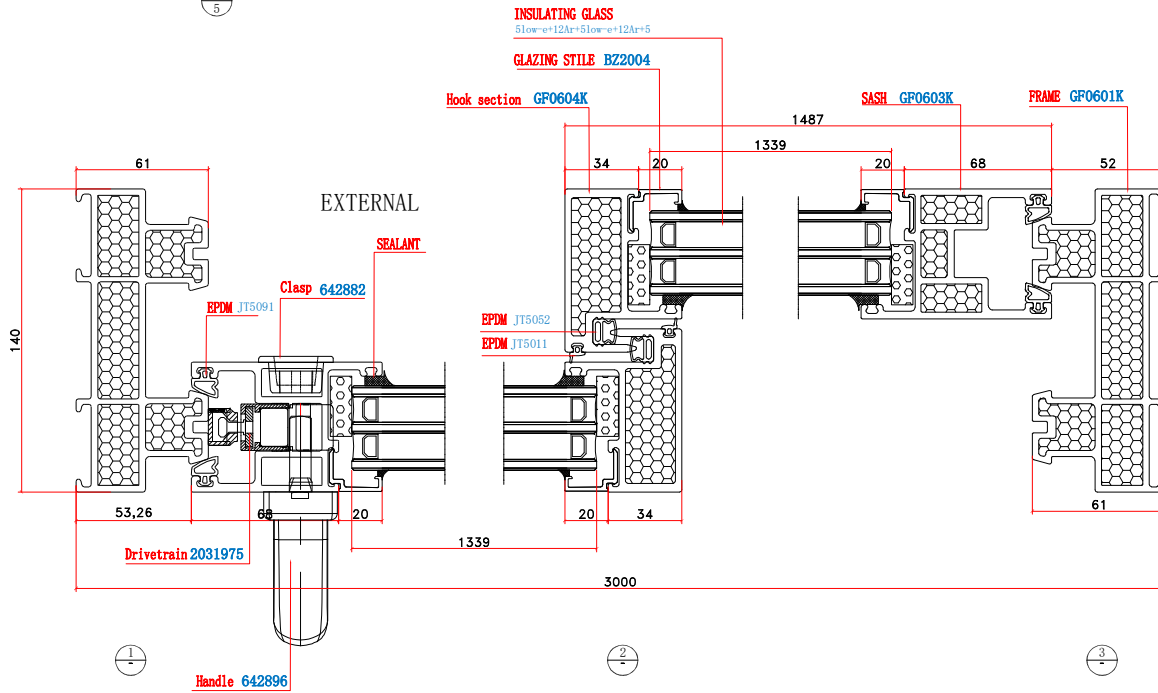
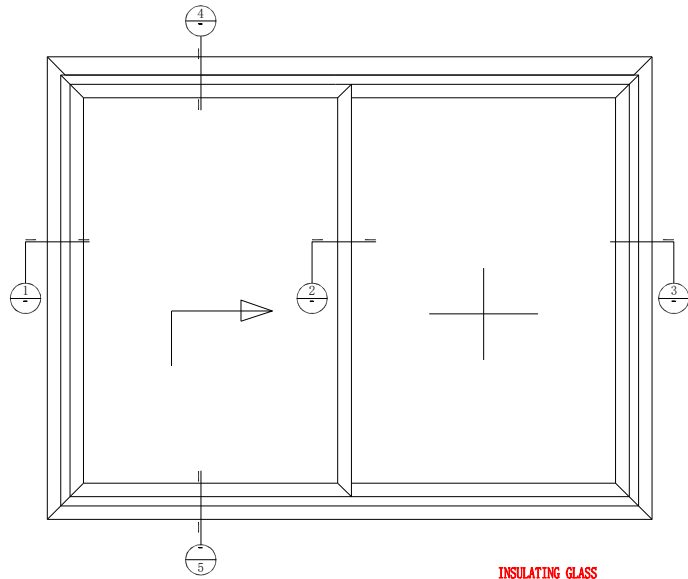


Fig.4 Drawing of Representative Sample

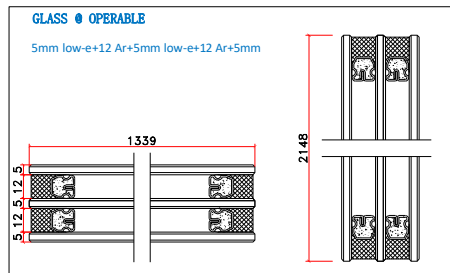
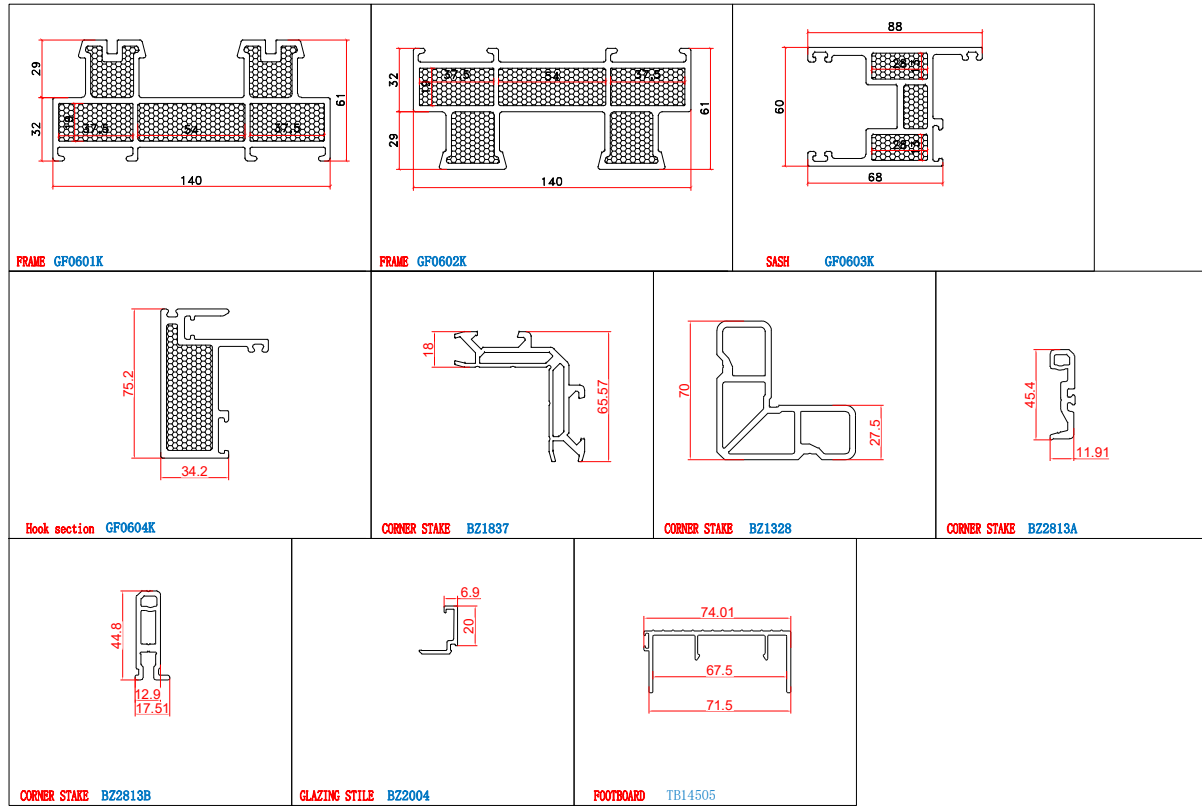
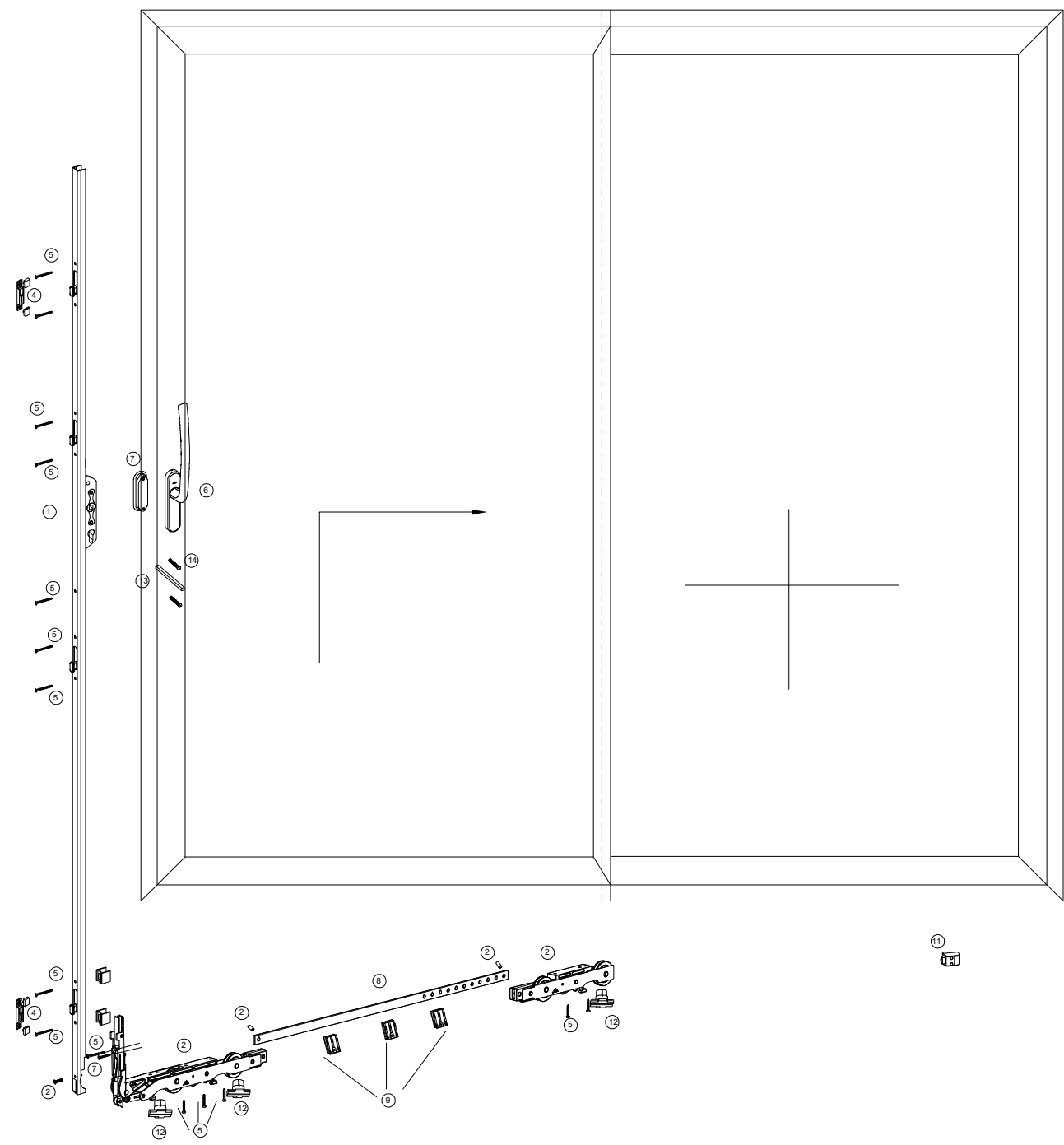


Fig.5 Drawing of Representative Sample



NO.	material code	name	DESCRIPTION	UNIT	QUANTITY
1	2031918	Drive Pin PL200	1207 5 FH201-2600	piece	1
2	2020509	Pulley assembly	3" dia 11mm diam with rope hole	piece	1
3	2020501	Pulley assembly	PL150E_PL200E W/16mm	piece	1
4	811482	Locking Piece	Model P2 G51	piece	2
5	643122	Screw	10x100 1/4" dia x 1/4" x 30	piece	1
6	355655	Hand assembly set with	PL150/PL200	piece	1
7	634268	Stopper	RAL6005M	piece	2
8	805329	Bracket Piece	PL150	piece	2
9	642896	Handle	Black PL300 /RAL6002F	piece	1
10	642892	Clamp	Black PL200	piece	1
11	644120	Square Shaft	10*10*80mm	piece	1
12	735124	Screw	M6*90	piece	2

Fig.6 Drawing of Representative Sample

Test Report

Original Issue Date: 2024-12-11

Intertek Report No. 240821010SHF-002

Appendix B: Sample Received Photo



Revision:

NO.	Date	Changes
240821010SHF-002	2024-12-11	First issue