

Liongate Facade Solution PTY LTD

TEST REPORT

SCOPE OF WORK

Side-hinged Door + Fixed Window

REPORT NUMBER

240426005SHF-002

TEST DATE(S)

2024-05-24

ORIGINAL ISSUE DATE

2024-06-05

PAGES

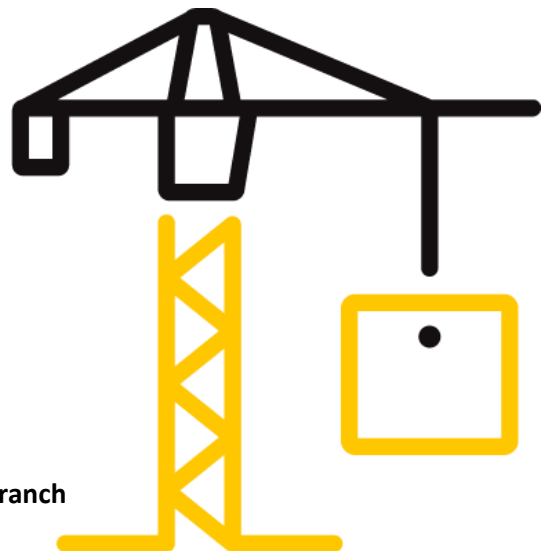
23

DOCUMENT CONTROL NUMBER

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

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

Original Issue Date: 2024-06-05 Intertek Report No. 240426005SHF-002
Applicant: Liongate Facade Solution PTY LTD
Address: Suite 105, 50 Clarence Street, Sydney, NSW 2000
Attn: Feng Jian
Manufacturer: Tianjin Zhongxin Curtain Wall Decoration Engineering Co., Ltd.
Address: Tianjin Baodi District, NiuDaoKou Town, PangGeZhuang, North Bridge East
Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
Side-hinged Door + Fixed Window	PE04	1590mm(Width) x 2980mm(Height)
Sample ID	Sample Amount	Sample Received Date
S240426005SHF.002	1 Set	2024-04-26
Sample Description		
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 Name: Martin Zhu
Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2024-06-05

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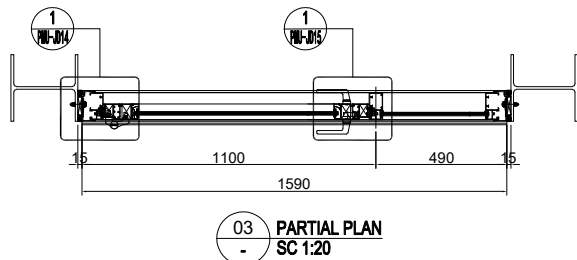
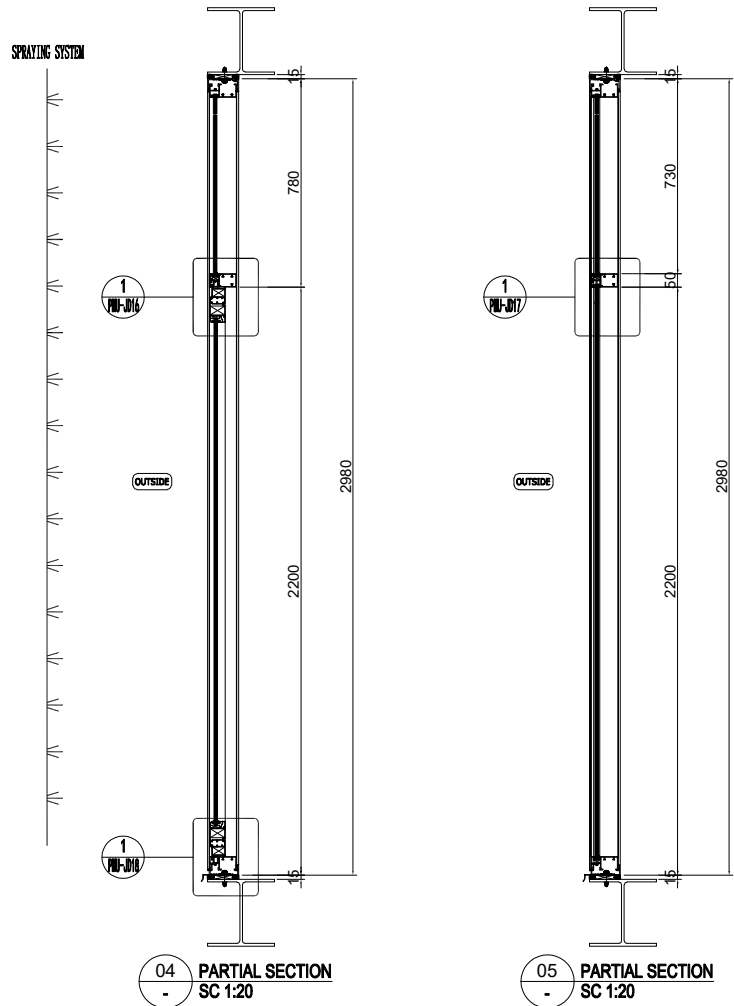
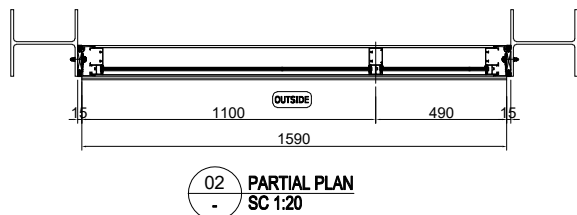
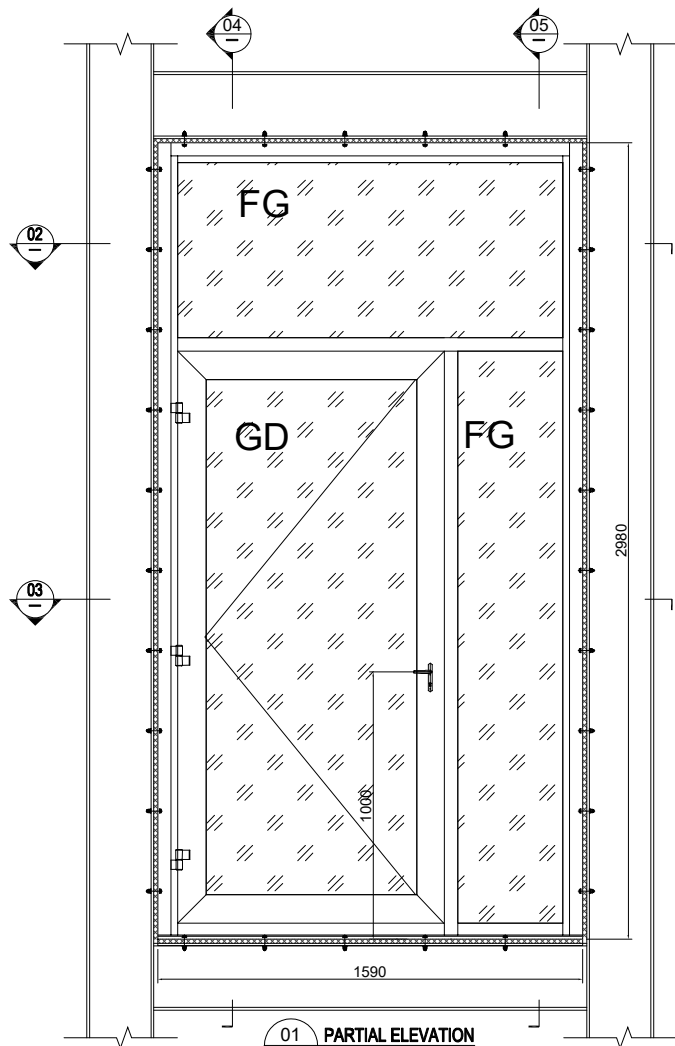
Test Items, Method and Results:

2 Test Result

Table 2 Test Results

Test Description	Test Result			Verdict
Serviceability Design Wind Pressure AS/NZS 4420.1-2016 Section 3	+		1280 Pa	Pass
	-		1440 Pa	
Deflection / Span Ratio Framing Member 1	Stile at handle side		1/714	
Deflection / Span Ratio Framing Member 2	Mullion		1/955	
Deflection / Span Ratio Framing Member 3	Transom		1/824	
Deflection / Span Ratio Framing Member 4	Glazing		1/689	Reported ¹
Operating Force AS/NZS 4420.1-2016 Section 4	Initial Movement	Required	≤ 60 N	Pass
		Open	25 N	
		Close	25 N	
	Maintain Movement	Required	≤ 20 N	
		Open	15 N	
		Close	15 N	
Air Infiltration at ±75 Pa AS/NZS 4420.1-2016 Section 5	at +75Pa		1.81 L/s·m ²	Pass
Overall area: 4.74 m ²	at -75Pa		2.02 L/s·m ²	
	Air Infiltration Level		High	
Water Penetration AS/NZS 4420.1-2016 Section 6	No water penetration at		450 Pa	Pass
	Description: After water sprayed for 3 minutes at 600 Pa, the water penetration started at the profile joint of door leaf.			
Ultimate Strength Test Pressure AS/NZS 4420.1-2016 Section 7	+	1980 Pa with no collapse		Pass
	-	2230 Pa with no collapse		
	Description: No significant breakage, permanent deformation or operational malfunction after ultimate strength was released.			

Notes: 1. The deflection of the glazing is recorded for reference only.



CNYD						AYD			PHASE
REV	DATE	DRAWN	APP	ENG	COST	PM	TG	CLIENT ISSUE DATE	

NOTES :

- DRAWINGS TO BE READ IN CONJUNCTION WITH TECHNICAL NOTES DRAWINGS
- ALL FIXINGS REFER TO TECHNICAL NOTES UNLESS NOTED OTHERWISE
- DO NOT SCALE FROM DRAWINGS

CLIENT

Fig.3 Drawing of Representative Sample

MAIN CONTRACTOR

FACADE MANUFACTURER

PROJECT

DRAWING TITLE

DRAWING STATUS

LAYOUT
A3

SCALE
1:20

DRAWING NO.

REV.

Test Report

Original Issue Date: 2024-06-05

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Appendix B: Sample Received Photo



Revision:

NO.	Date	Changes
240426005SHF-002	2024-06-05	First issue