

Liongate Facade Solution PTY LTD

TEST REPORT

SCOPE OF WORK

100 Window Louver

REPORT NUMBER

240729003SHF-002

TEST DATE(S)

2024-08-15 - 2024-08-16

ORIGINAL ISSUE DATE

2024-09-14

PAGES

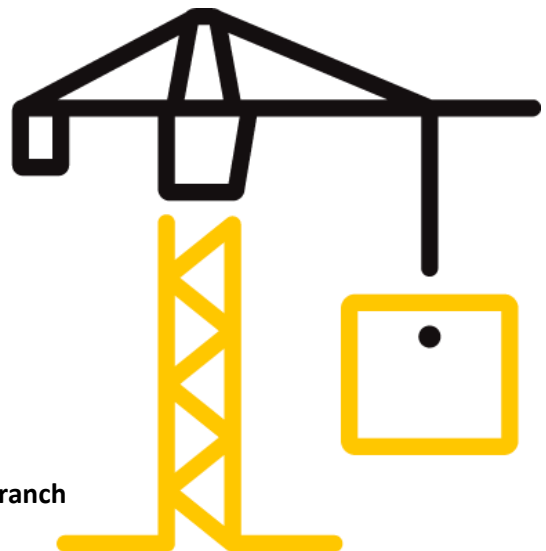
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DOCUMENT CONTROL NUMBER

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

Original Issue Date: 2024-09-14 Intertek Report No. 240729003SHF-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
100 Window Louver	PE07	740mm(Width) x 2820mm(Height)
Sample ID	Sample Amount	Sample Received Date
S240729003SHF.002	1 Set	2024-07-29
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 Title: Reviewer
Name: John Zhang Title: Project Engineer

Test Report

Original Issue Date: 2024-09-14

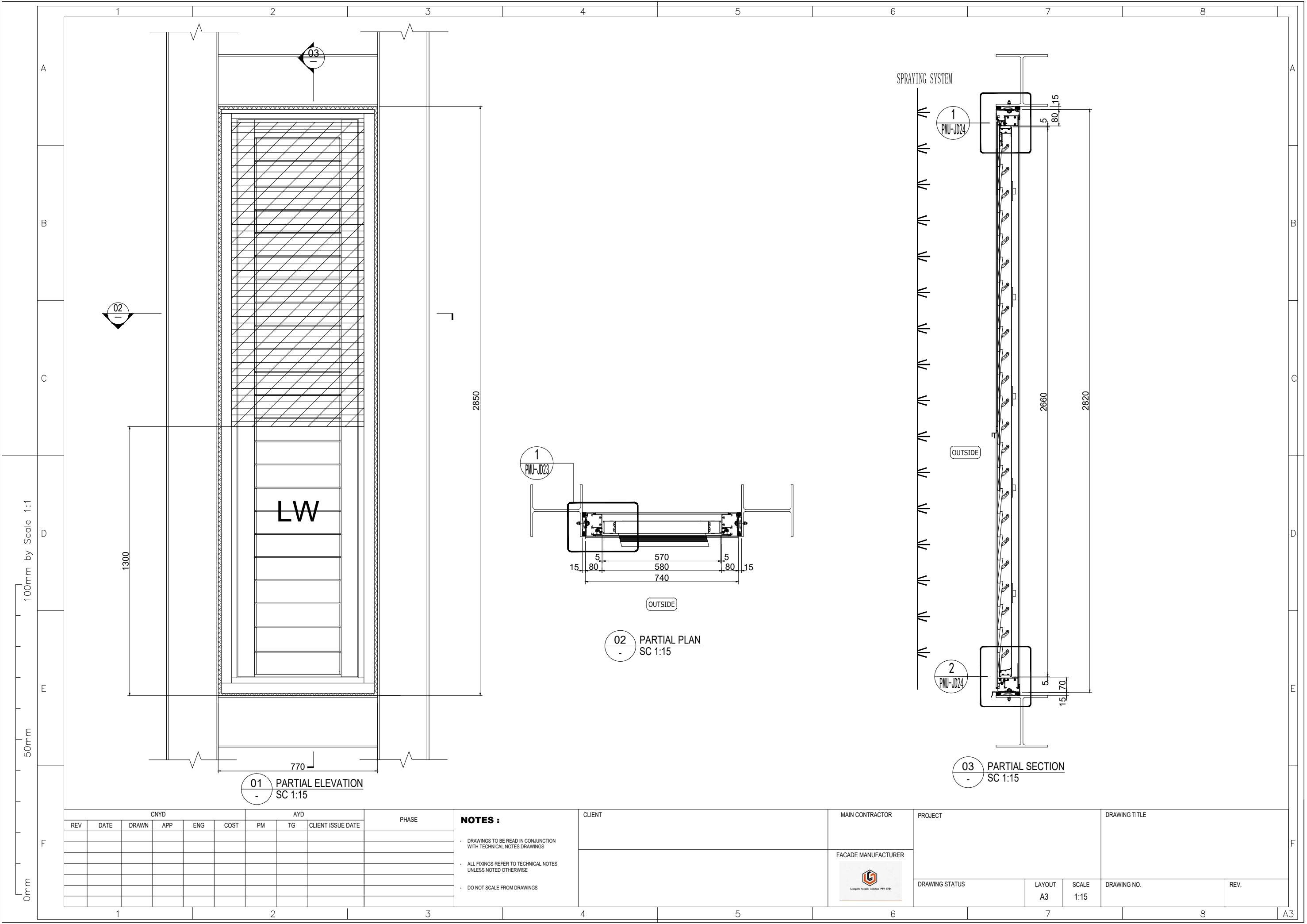
Intertek Report No. 240729003SHF-002

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	+		1010 Pa	Pass
	-		910 Pa	
Deflection / Span Ratio Framing Member 1	Stile		1/2000	
Operating Force AS/NZS 4420.1-2016 Section 4	Initial Movement	Required	≤ 160 N	Pass
		Open	65 N	
		Close	59 N	
	Maintain Movement	Required	≤ 80 N	
		Open	52 N	
		Close	51 N	
Air Infiltration at ±75 Pa AS/NZS 4420.1-2016 Section 5 Overall area: 2.09 m ²	at +75Pa		3.96 L/s·m ²	Pass
	at -75Pa		5.26 L/s·m ²	
	Air Infiltration Level		High	
Water Penetration AS/NZS 4420.1-2016 Section 6	No water penetration at		303 Pa	Pass
	Description: After water sprayed for 1 minute at 380 Pa, the water splashed into interior from louvers.			
Ultimate Strength Test Pressure AS/NZS 4420.1-2016 Section 7	+	1560 Pa with no collapse		Pass
	-	1400 Pa with no collapse		
	Description: No significant breakage, permanent deformation or operational malfunction after ultimate strength was released.			



100mm by Scale 1:1

50mm

0mm

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Appendix B: Sample Received Photo



Revision:

NO.	Date	Changes
240729003SHF-002	2024-09-14	First issue