

Test Summary Report Building Façade Testing

Hose Testing (CWCT Section 9.0)

CONFIDENTIAL

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1 Introduction

This test summary briefly outlines the weathertightness tests carried out on the abovementioned building. The testing was commissioned by Nick Condon on behalf of City of London Corporation.

The areas tested are identified on the drawings in this test summary. The testing was carried out by Build Check Ltd at Crescent House The testing was conducted on 6th of March 2023. The testing was witnessed by Nick Condon.

The objective of the test was to establish any water leakage patterns in the sample areas tested.

The test methods were in general accordance with CWCT Standard Test – sections 9 and Technical Note 41 methods for testing building envelopes BS EN 13051:2001.

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2 Test Procedure

The test procedure and equipment used complies with the requirements set down in the following standards,

CWCT Section 9 and Technical Note 41 methods for building envelopes for Watertightness.

For hose testing - this involved a flow of water directed at each joint in the sample area(s) using the equipment specified in the standards above. The nozzle gauge and valve assembly was connected to a ¾ inch diameter plastic hose; the water pressure at the nozzle was adjusted to produce 22 +/- 2 litres /min, with the water pressure at the inlet 220KPa +/- 20KPa. The nozzle produced a cone angle of 30 degrees and held 300mm away from the face of the joints with the joints tested in 1.5m steps. This resulted in the nozzle been moved at a rate of approximately 1.5m every 30 second period to achieve 10 passes over five minutes over each 1.5m section.

The test started at the lowest point of the test area and worked upwards. The internal face of the test area was constantly monitored during the test for any water ingress. This continued for a period no less than 30 minutes post completion of the water spraying.

All areas of testing are pre-selected by the client. Reveals around the internal perimeter of the test area were not in place to allow adequate viewing, and therefore the determination of a Pass/Fail criteria was possible.

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3 Summary of Test Results

Test Zone No	Test Date	Start Time	Finish Time	Test Location	Joint Length (M)	Result
1	6/3/2023	11.27	11.28	No. 347, 3 rd Floor, Rear, Kitchen - Sill	1.5	Fail
2	6/3/2023	11.28	11.29	No. 347, 3 rd Floor, Rear, Kitchen – L/H jamb	0.6	Fail
3	6/3/2023	11.34	11.35	No. 347, 3 rd Floor, Rear, Lounge - Sill	1.5	Fail
4	6/3/2023	11.37	11.37	No. 347, 3 rd Floor, Rear, Lounge – Head	1.5	Fail
5	6/3/2023	11.44	12.19	No. 347, 3 rd Floor, Front, Lounge – Sill	1.5	Pass
6	6/3/2023	11.49	12.24	No. 347, 3 rd Floor, Front, Lounge – Sill	1.5	Pass
7	6/3/2023	11.54	11.55	No. 347, 3 rd Floor, Front, Lounge – R/H jamb	1.5	Fail
8	6/3/2023	11.55	11.56	No. 347, 3 rd Floor, Front, Lounge – L/H jamb	1.5	Fail
9	6/3/2023	12.00	12.02	No. 347, 3 rd Floor, Front, Lounge – Head	1.5	Fail
10	6/3/2023	12.03	12.06	No. 347, 3 rd Floor, Front, Lounge - Head	1.5	Fail

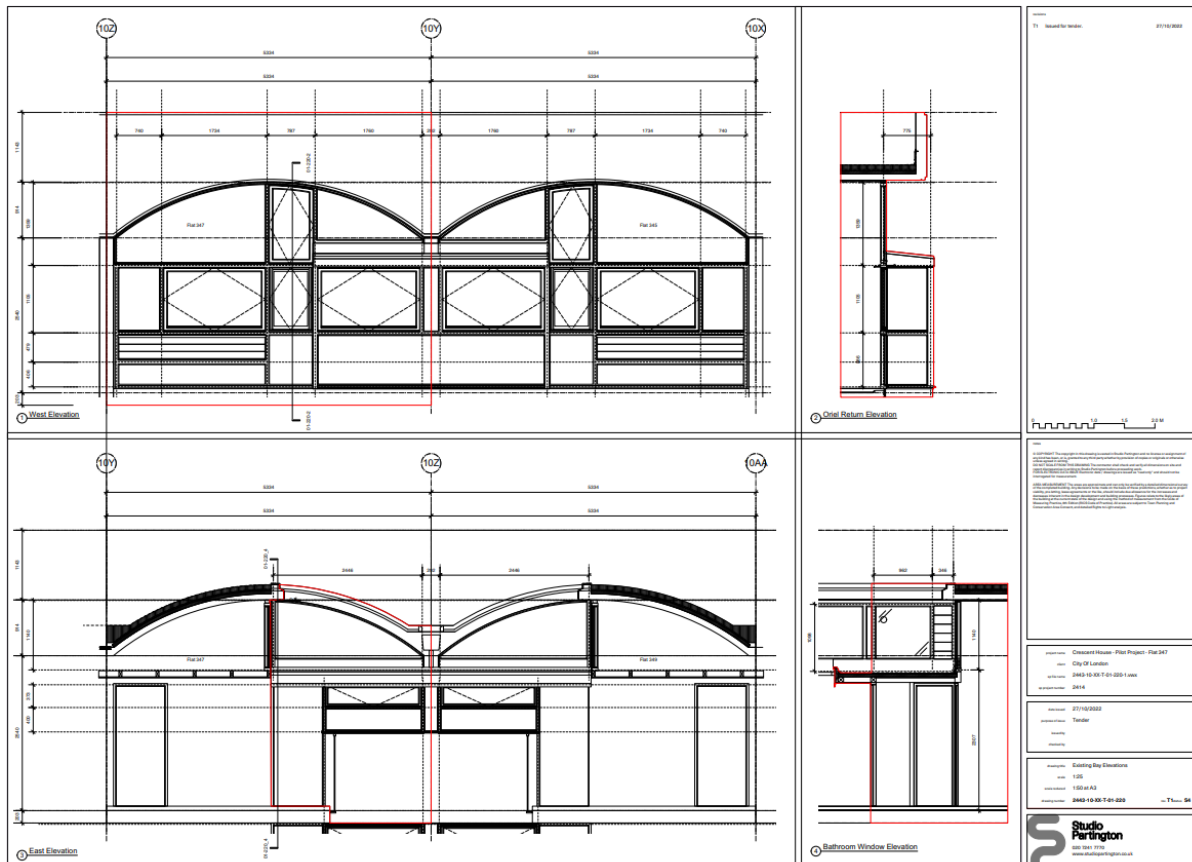
For guidance on the leakage definition as per pass and fail criteria regarding water leakage please see CWCT section 9- 9.6.3 (Closed Joints) and 9.8.3 (Openable Joints)

Test Comments/Observations	Photos
Test 1 – Water ingress noted from Sill	Appendix
Test 2 – Water ingress noted from L/H jamb	Appendix
Test 3 – Water ingress noted from Sill	Appendix
Test 4 – Water ingress noted from central beam	Appendix
Test 7 – Water ingress noted from R/H jamb	Appendix
Test 8 – Water ingress noted from R/H jamb	Appendix
Test 9 – Water ingress noted from Head	Appendix
Test 10 – Water ingress noted from Head	Appendix

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4 Test Specimen

The following description was supplied by the client and not verified by Build Check – for further information see drawings.



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5 Authorisation

	Issued by:	Checked by:
Signature:		
Name:	James Laycock	Lee Dearman
Title:	Test Engineer	Technical Manager

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Appendix – Further notes and Photographs

Observation: Water ingress

Location: Test 1



Observation: Water ingress

Location: Test 2



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Observation: Water ingress

Location: Test 3



Observation: Water ingress

Location: Test 4



Observation: Water ingress

Location: Test 7



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Observation: Water ingress

Location: Test 8



Observation: Water ingress

Location: Test 9



Observation: Water ingress

Location: Test 10



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