



JAMES HARDIE
RESEARCH

PRODUCT DEVELOPMENT TECHNICAL SUPPORT GROUP
10 COLQUHOUN STREET, ROSEHILL, N.S.W. 2142.



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TEST CERTIFICATE

Weathertightness Testing of Vertical Orientation Stria Fibre Cement Cladding System on CAVIBAT Battens in a/w Verification Method E2 / VM1 of the New Zealand Building Code

Certificate Number 524A

Test Report Number TS052-11

Date of Re-Issue 16-03-2021

Original Issue Date: 16 December 2011

Method details

Standard construction details for the vertical orientation Stria cladding systems (on CAVIBAT battens) were tested for conformance to the requirements of E2/VM1 weathertightness in accordance with the requirements of the New Zealand Building Code (NZBC).

Sample details

The test specimen was of timber frame construction with MGP10 Radiata Pine 90mm x 45mm studs at 600mm centres. Openings were allowed in the frame to accept a standard aluminium window (610mm x 705mm supplied, ex. New Zealand, by First Windows & Doors) and a standard galvanised steel electrical meter box (600mm x 600mm)

Included in the frame were an external corner detail, an internal corner detail, and a balustrade section. Horizontal CAVIBAT battens (45mm x 18mm) were fastened over the nogged frame at 600mm horizontal centres. The battens were secured at 400mm centres using finishing nails. The cladding was fastened through the Stria cladding and through the battens in accordance with the standard specifications detailed in the Appendix of the test report. Standard details of all joints, junctions, and flashing details may also be found in Appendix of the test report.

A 6mm thick clear Perspex sheet was attached to the back face of the test frame to simulate the presence of internal lining, and to enable a clear view of any leakage through the external cladding system.

Results

Results are tabled on page 2.

Conclusion

The vertical orientation Stria cladding system using CAVIBAT battens conformed to the E2/AS1 weathertightness requirements of the New Zealand Building Code (NZBC).

Darren Cambey
Testing & Certifying Officer



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Results

TEST TYPE	CRITERIA	RESULT
Structural Test	Serviceability Limit State Pressure of 1.51kPa for 1 minute in both positive and negative directions	Pass
Series 1 Static Water Penetration	455Pa for 15 minutes Pass Criteria: No water on building wrap.	Pass - No leaks observed
Series 1 Cyclic Water Penetration	<ul style="list-style-type: none"> Cyclic @ 150 to 300 Pa Cyclic @ 200 to 400 Pa Cyclic @ 300 to 600 Pa Cyclic @ 455 to 910 Pa Duration: 5 minutes Pass Criteria: No water on building wrap.	Pass - No leaks observed
Series 2 Water Management Test	455Pa for 15 minutes Pass Criteria: No water on building wrap.	Pass - No leaks observed.
Series 2 Water Management Test	<ul style="list-style-type: none"> Cyclic @ 150 to 300 Pa Cyclic @ 200 to 400 Pa Cyclic @ 300 to 600 Pa Cyclic @ 455 to 910 Pa Duration: 5 minutes Pass Criteria: No water on building wrap.	Pass - No leaks observed
Series 3 "Wetwall Test"	Static pressure of 50Pa Duration: 15 minutes Pass Criteria: No water on building wrap.	Pass - Water bubbling in through defects and running down the back of the cladding sheets, but not reaching the timber frame, nor building wrap.

Notes

The testing equipment, carried the following calibration information;

- Honeywell Pressure Transducer: PT-6 I/O Box 1. Calibrated by Australian Calibrating Services, 16/06/2011 Report N.AC/010-3M-4 and N.AC/010-3Ma-4.

Darren Cambey
Testing & Certifying Officer

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