



**JAMES HARDIE
BUILDING PRODUCTS**

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



This laboratory is accredited by the National Association of Testing Authorities, Australia. This document is issued in accordance with NATA's accreditation requirements.

Accreditation No. 14220.

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TEST CERTIFICATE

Weathertightness Testing of NZ Axon on Cavity Battens in a/w Verification Method E2 / VM1

Certificate Number	582	Test Report Number	TS033-13
		Date of Issue	8 January 2014

Method details

Standard construction details for the Scyon Axon cladding systems (on fibre cement cavity battens) were tested for conformance to the requirements of E2/VM1 weathertightness in accordance with the requirements of the New Zealand Building Code.

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 (595mm x 865mm supplied, ex. New Zealand) and a standard electrical meter box (400mm x 600mm, by Teubels).

As required by the E2/VM1, included in the frame were an external corner detail, an internal corner detail, and a balustrade section. Fibre cement cavity battens (70mm x 19mm) were fastened to the frame at nominal 200mm centres, using 2.87 x 65mm RounDrive nails. The cladding was fastened to the battens in accordance with the standard specifications detailed in the Appendix B of the test report. Standard details of all joints, junctions, and flashing details may also be found in Appendix B of the test report.

A 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

Detailed results are tabled on page 2 of this certificate.

Conclusion

The Scyon Axon cladding system using cavity battens conformed to the E2/AS1 weathertightness requirements of the NZ building code 2011.


John Cottier
Technical Manager


Darren Cambey
Testing & Certifying Officer

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Results

TEST TYPE	CRITERIA	RESULT
Structural Test	Serviceability Limit State Pressure of 1.51 kPa for 1 minute in both positive and negative directions	Pass
Series 1 Static Water Penetration	455 Pa 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 @ 455 to 910 Pa Duration: 5 minutes Pass Criteria: No water on building wrap.	Pass - No leaks observed
Series 2 Water Management Test	455 Pa 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 @ 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 50 Pa 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, 11/06/2013 Report N.AC/010-3M-6 and N.AC/010-3Ma-6.


John Cottier
Technical Manager


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