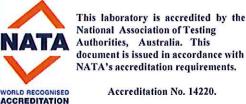


PRODUCT DEVELOPMENT TECHNICAL SUPPORT GROUP 10 COLQUHOUN STREET, ROSEHILL, N.S.W. 2142.



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** Date of Issue

TS033-13 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.

Detailed results are tabled on page 2 of this certificate.

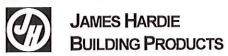
### Conclusion

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

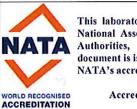
> John Cottier ₩ echnical Manager

Darren Cambey Testing & Certifying Officer

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# TEST CERTIFICATE

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

**Certificate Number** 

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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	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	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;

i. Honeywell Pressure Transducer: PT-6 I/O Box 1. Calibrated by Australian Calibrating Services, 11/06/2013 Report NAC/010-3M-6 and N.AC/010-3Ma-6.

John Cottier
Technical Manager

Darren Cambey
Testing & Certifying Officer

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