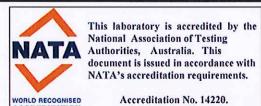


PRODUCT DEVELOPMENT TECHNICAL SUPPORT GROUP 10 COLQUHOUN STREET, ROSEHILL, N.S.W. 2142.



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# TEST CERTIFICATE

Weathertightness Testing of Scyon Stria/Oblique Fibre Cement Cladding on CLD Battens in a/w Verification Method E2 / VM1

**Certificate Number** 

580

Test Report Number Date of Issue

TS003-13 4 December 2013

### **Method details**

Standard construction details for the Scyon Stria/Oblique cladding systems (on CLD 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 New Zealand aluminium window (595mm x 865mm supplied, ex. New Zealand) and a standard New Zealand electrical meter box (400mm x 600mm by Teubels, supplied ex. New Zealand).

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.

The product tested was the Scyon Oblique product, and whilst the dimensional and face machining of the Scyon Stria cladding differs slightly from the Oblique, the installation details are identical.

#### Regulte

Detailed results are tabled on page 2 of this certificate.

#### Conclusion

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

John Cottier Technical Manager

Darren Cambey Testing & Certifying Officer



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



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### Results

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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 leak observed
Series 1 Cyclic Water Penetration	Cyclic @ 455 to 910 Pa     Duration: 5 minutes  Pass Criteria: No water on building     wrap.	Pass No leak observed
Series 2 Water Management Test	455Pa for 15 minutes  Pass Criteria: No water on building wrap.	Pass No leak observed
Series 2 Water Management Test	Cyclic @ 455 to 910 Pa     Duration: 5 minutes  Pass Criteria: No water on building     wrap.	Pass No leak observed
Series 3 "Wetwall Test"	Static pressure of 50Pa Duration: 15 minutes Pass Criteria: No water on building wrap.	Pass – Water bubbling in through defect and running down the back of th 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, 24/07/2012 Report N.AC/010-3M-5 and N.AC/010-3Ma-5.

/ John Cottier Technical Manager

Darren Cambey
Testing & Certifying Officer

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