



TEST REPORT NUMBER 2015-014-S1

Client: VELUX Australia Pty Ltd
78 Henderson Road, Alexandria, NSW

Sample: TWF/TWR 0K14 2010
The sample was mounted on a 90x45 timber frame in accordance with the fitting instructions (VAS 453834-2015-01). Details of the sample provided by the Client are given in Appendix A . The flashing was sealed to a perimeter flashing on the timber frame.
Glazing: 4 mm toughened glass.

Test Location: Ian Bennie & Associates Laboratory **Test Date:** 10 March 2015
Dandenong, Victoria

Test Results: The sample was subjected to Watertightness, Resistance to Concentrated Loads, and Resistance to Wind Pressures for Non-cyclone Regions tests for Skylight assemblies nominated in Clause 3.2.2 of Australian Standard AS4285-2007, Skylights, with test methods and results as summarised below.

Watertightness PASS at default angle of 27° only

Method: AS2050 Appendix C modified as required in AS4285

Test pitch angle(s): 27° roof pitch

Sample orientations: Ridge normal to the wind stream and at 45° to the windstream.

Observations: No water penetration was observed during the tests at 27°.

Resistance to Concentrated Loads PASS

Method: AS4040.1 modified as required in AS4285

Load applied: 1.1kN at the centre of the dome and at one corner.

Observations: The loads were sustained for the test duration of 1 minute.

Resistance to Wind Pressures for Non-cyclone Regions

Method: AS4040.2 modified as required in AS4285.

Loads applied and sustained for 1 minute (kPa):

| | | |
|----------|-----|-------------|
| Positive | 5.0 | PASS |
| Negative | 7.0 | PASS |

Observations: No sign of failure was observed at the test pressures above.

Conclusion:

The test sample passed the test requirements of Australian Standard AS4285-2007 for Watertightness, Resistance to Concentrated Loads, and Resistance to Wind Pressures for Non-cyclone Regions at the test loads.

The test of Resistance to Wind Pressures for Non-cyclone Regions determined the maximum Strength Limit State pressures sustained by the skylights during testing.

| Maximum Strength Limit State Pressures Sustained | |
|---|------------------|
| + 5.0 kPa | - 7.0 kPa |



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A handwritten signature in black ink, appearing to read 'D. Dubout'.

Derek Dubout 17 September 2015
Authorised Signatory