

IAN BENNIE AND ASSOCIATES

TEST REPORT NO. 2011-132-S1

**K-550DL, 550 MM DIA. NON-VENTED
SKYLIGHT TESTS TO AS 4285-2007**

for

SolarBright Skylights

June 2012



Accredited Laboratory No. 2371
This document is issued in accordance with
NATA's accreditation requirements.



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Client: SolarBright Skylights
1/7 Enterprise Circuit, Prestons NSW 2170

Sample: K-550DL, 550 mm Dia. Non-Vented
Dome material: Acrylic

Details of the sample provided by the Client are given in Appendix A.

Test Location: Ian Bennie & Associates Laboratory **Test Date:** 31/8 to 19/9/2011
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 11.2 of Australian Standard AS4285-2007, Skylights, with test methods and results as summarised below.

Watertightness PASS

Method: AS2050 Appendix C modified as required in AS4285

Test pitch angle(s): 27° (default), 60° and 5° roof pitch

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

Observations: No leakage was observed during the test.

Resistance to Concentrated Loads PASS

Method: AS4040.1 modified as required in AS4285

Load applied: 1.1kN at the centre of the dome.

Observations: The load was 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	3.72	PASS
Negative	3.90	PASS

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

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.

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	
+ 3.72 kPa	- 3.90 kPa



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SolarBright SkylightsPDF

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Ian Bennie 19 June 2012
Authorised NATA Signatory

Model 550DL Specifications - Industrial Flat Roof Application

