



TEST CERTIFICATE No. 2009-098-C1

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	9 November 2010

Introduction
The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
FCM 4646 0004B	AS 4285-2007 (refer below for test clauses)	9 November 2009

IBA Report	Description of product
2009-098-S5	The system was nominally 1300mm x 1300mm OD secured to a metal base and metal flashing. Installation was in accordance with VELUX FCM installation instructions VAS 452195-0109. Glazing 3.9mm toughened outer/12 Argon/2.5-0.76-2.5 laminated inner
3.2.2.5: Watertightness	Result: Pass at 0°, 15°, 27° & 60° roof pitches

IBA Report	Description of product
2009-098-S6	The system was nominally 1300mm x 1300mm OD secured to a timber hob without flashing. Installation was in accordance with VELUX FCM installation instructions VAS 452195-0109. Glazing 3.9mm toughened outer/12 Argon/2.5-0.76-2.5 laminated inner
3.2.2.2: Resistance to Concentrated Loads	Result: Pass
3.2.2.3: Resistance to Wind Pressure (non-cyclone)	Result: Pass (+7.2 & -7.3 kPa ULS)
3.2.2.4: Resistance to Wind Pressure (cyclone)	Result: Pass (-5.0 kPa ULS)

NOTES
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Reference should be made to the relevant test report(s) to determine the applicability of the test result to a proposed installation.

TEST LABORATORY	IAN BENNIE and ASSOCIATES Pty Ltd	ACN: 007 133 253
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Prepared by:	Ian Bennie	



TEST CERTIFICATE No. 2009-098-C2

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	11 November 2010

Introduction
The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
FS S06 2004A	AS 4285-2007 (refer below for test clauses)	7 & 8 November 2009 and 14 December 2009

IBA Report	Description of product
2009-098-S1	The system was nominally 1158mm x 1200mm OD secured to a metal base and with an EDW flashing kit. Installation was in accordance with VELUX FS installation instructions VAS 452262-0509 and EDW instructions VAS 452259-0509. Glazing 3mm toughened outer/12 Argon/2.5HS-0.76-2.5HS laminated inner
3.2.2.5: Watertightness	Result: Pass at 15° & 27° roof pitches
3.2.2.2: Resistance to Concentrated Loads	Result: Pass
3.2.2.3: Resistance to Wind Pressure (non-cyclone)	Result: Pass (±4.0 kPa ULS)

IBA Report	Description of product
2009-098-S12	The system was nominally 1158mm x 1200mm OD secured to a metal base and without a flashing kit. Installation was in accordance with VELUX FS installation instructions VAS 452262-0509. Glazing 3mm toughened outer/12 Argon/2.5HS-0.76-2.5HS laminated inner
3.2.2.4: Resistance to Wind Pressure (cyclone)	Result: Pass (-4.0 kPa ULS)

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TEST CERTIFICATE No. 2009-098-C3

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	11 November 2010

Introduction
The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
VS S06 2004A	AS 4285-2007 (refer below for test clauses)	9 September, 9 November and 15 December 2009

IBA Report	Description of product
2009-098-S10	The system was nominally 1157mm x 1200mm OD secured to a metal base and with an EDW flashing kit. Installation was in accordance with VELUX VS installation instructions VAS 452262-0509 and EDW instructions VAS 452198-0209. Glazing 3mm toughened outer/12 Argon/2.5HS-0.76-2.5HS laminated inner
3.2.2.5: Watertightness	Result: Pass at 15° & 27° roof pitches
3.2.2.2: Resistance to Concentrated Loads	Result: Pass
3.2.2.3: Resistance to Wind Pressure (non-cyclone)	Result: Pass (+5.0 & -6.5 kPa ULS)

IBA Report	Description of product
2009-098-S16	The system was nominally 1157mm x 1200mm OD secured to a metal base and without a flashing kit. Installation was in accordance with VELUX VS installation instructions VAS 452262-0509. Glazing 3mm toughened outer/12 Argon/2.5HS-0.76-2.5HS laminated inner
3.2.2.4: Resistance to Wind Pressure (cyclone)	Result: Pass (-2.8 kPa ULS)

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IAN BENNIE & ASSOCIATES PTY. LTD.



TEST CERTIFICATE No. 2014-067-C1

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	9 October 2014

Introduction
The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
GGL-SK06-3076	AS 4285-2007 (refer below for test clauses)	8-9 October 2014

IBA Report	Description of product
2014-067-S1 and S3	The system was nominally 1140mm x 1180 OD with an EDW-SK06 flashing kit for the water penetration test. Glazing 4mm toughened outer/14 Argon/6.38 laminated inner
3.2.2.5: Watertightness	Result: Pass at default 27° roof pitch only (Report 2014-067-S1)
3.2.2.2: Concentrated load	Result: Pass (Report 2014-067-S1)
3.2.2.3: Non-cyclonic pressure	Result: Pass at +4 / -6 kPa (Report 2014-067-S1)
3.2.2.4: Cyclonic pressure	Result: Pass at +4.0 kPa (Report 2014-067-S3)

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IAN BENNIE & ASSOCIATES PTY. LTD.



TEST CERTIFICATE No. 2014-067-C2

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	8 October 2014

Introduction
The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
GPL-SK06-3076	AS 4285-2007 (refer below for test clauses)	8 October 2014

IBA Report	Description of product
2014-067-S2 and S5	The system was nominally 1140mm x 1180 OD with an EDW-SK06 flashing kit for the water penetration test. Glazing 3mm toughened outer/14 Air/6.38 laminated inner
3.2.2.5: Watertightness	Result: Pass at 27° and 15° roof pitch (Report 2014-067-S2&5)
3.2.2.2: Concentrated load	Result: Pass (Report 2014-067-S2&5)
3.2.2.3: Non-cyclonic pressure	Result: Pass at +4 / -2.5 kPa (Report 2014-067-S2&5)

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**TEST CERTIFICATE No. 2017-016-S1 & S8**

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	15 November, 2017

Introduction

The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
VCS 4646 2004	AS 4285-2007 (refer below for test clauses)	29 & 30 March, 2017

IBA Report	Description of product
2017-016-S1	The sample was mounted on a timber base of 90 x 45 mm pine as detailed in the Appendix in accordance with the fitting instructions included in Appendix A (A21 Model instructions for the timber base followed except for the frame size). The skylight was fixed through the curb flashing with 3 screws at 525 centres down each side. Construction details are given in Appendix B. Overall size: 1305 x 1305 mm Glazing: Type 2004 laminated IGU (3.9 mm toughened outer/9 mm argon space/5.36 laminated HS inner glass)
3.2.2.5: Watertightness	Result: Pass at 0°, 27° (default) and 45° roof pitches
3.2.2.2: Resistance to Concentrated Loads	Result: PASS
3.2.2.3: Resistance to Wind Pressure (non-cyclone)	Result: PASS +4.5 & -4.0 kPa (ULS)

IBA Report	Description of product
2017-016-S8	The sample was mounted on a timber base of 90 x 45 mm pine as detailed in the Appendix in accordance with the fitting instructions included in Appendix A (A21 Model instructions for the timber base followed except for the frame size). The skylight was fixed through the curb flashing with 3 #8 screws at 525 centres down each side. Construction details are given in Appendix B. Overall size: 1305 x 1305 mm Glazing: Type 2004 laminated IGU (3.9 mm toughened outer/9 mm argon space/5.36 laminated HS inner glass)
3.2.2.4: Resistance to Wind Pressure (cyclone)	
Cyclic pressure to NCC method	Result: PASS -2.16 kPa (ULS) C1 Rating
Cyclic pressure to AS4040 method	Result: PASS -3.21 kPa (ULS) C2 Rating

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**TEST CERTIFICATE No. 2017-016-S5 & S10**

Test Client	Certificate Issue Date
VELUX Australia Pty Ltd 321-323 Princes Highway St.Peters NSW 2044	15 November, 2017

Introduction

The roof window described below was tested by this laboratory on behalf of the test client in accordance with the nominated subclauses of the stated standard and achieved the results shown below. Refer to the referenced test report(s) for full sample details and compliance information.

Product Name	Test Standard	Test Date
VCM 4646 2004	AS 4285-2007 (refer below for test clauses)	30 & 31 March, 2017

IBA Report	Description of product
2017-016-S5	The sample was mounted on a timber base of 90 x 45 mm pine as detailed in the Appendix in accordance with the fitting instructions included in Appendix A (A21 Model instructions for the timber base followed except for the frame size). The skylight was fixed through the curb flashing with 3 screws at 525 centres down each side. Construction details are given in Appendix B. Overall size: 1305 x 1305 mm Glazing: Type 2004 laminated IGU (3.9 mm toughened outer/9 mm argon space/5.36 laminated HS inner glass)
3.2.2.5: Watertightness	Result: Pass at 0°, 27° (default) and 45° roof pitches
3.2.2.2: Resistance to Concentrated Loads	Result: PASS
3.2.2.3: Resistance to Wind Pressure (non-cyclone)	Result: PASS +4.0 & -5.0 kPa (ULS)

IBA Report	Description of product
2017-016-S10	The sample was mounted on a timber base of 90 x 45 mm pine as detailed in the Appendix in accordance with the fitting instructions included in Appendix A (A21 Model instructions for the timber base followed except for the frame size). The skylight was fixed through the curb flashing with 3 #8 screws at 525 centres down each side. Construction details are given in Appendix B. Overall size: 1305 x 1305 mm Glazing: Type 2004 laminated IGU (3.9 mm toughened outer/9 mm argon space/5.36 laminated HS inner glass)
3.2.2.4: Resistance to Wind Pressure (cyclone)	
Cyclic pressure to NCC method	Result: PASS -2.16 kPa (ULS) C1 Rating
Cyclic pressure to AS4040 method	Result: PASS -3.21 kPa (ULS) C2 Rating

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