Certificate of Conformity

Certification Body:

global-mark

Global-Mark Pty Ltd
Suite 4.07
32 Delhi Road
North Ryde NSW 2113
Australia
Tel: +61 2 9886 0222
www.Global-Mark.com.au

Certificate Holder:
Velux Australia Pty Ltd
78 Henderson Road
Alexandria NSW 2015
Australia
Tel: 1300 859 856
www.velux.com.au

Certificate number: 30089 Rev1

THIS TO CERTIFY THAT

Velux Roof Windows GGL & GPL, incorporating EDW Flashing Kits

Type and/or use of product:

Velux Roof Windows GGL and GPL (incorporating EDW Flashing kits) are used to bring natural light and air into attics or loft rooms where ventilation is required.

Velux Roof Windows GGL and GPL (incorporating EDW Flashing kits) are designed for use with all building types, subject to limitations detailed within this certificate and the technical literature.

Description of product:

Velux GGL Roof Windows are an openable, centre pivoting roof window for in-reach applications.

Velux GPL Roof Windows are an openable centre pivoting with top-hung "dual action" roof window for in-reach applications.

Velux EDW Flashing kits integrate with GGL & GPL Roof Windows for weather proofing.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) — **BCA 2016**

	Volume One – Amendment One		Volume Two	
Performance Requirement(s)	**FP1.4**	Health & Amenity – Weatherproofing	**P2.2.2**	Weatherproofing
	CP2	Protection from Spread of Fire	**P2.3.1**	Protection from Spread of Fire
Deemed-to-Satisfy Provision(s):	**B1.4 (h) (ii)**	Structure	**3.6.0 (b)**	Structure – Glazing
			3.11.6 (i)(ii)	Structural Design Manuals
	Specification B1.2	Structure – Buildings in Cyclonic Areas	**3.10.1.0 (e)(ii) & (f)**	Structure – Gazing in high wind areas
	D2.24	Access & Egress – Protection of openable	**3.9.2.5**	Protection of openable windows

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions

In placing **the CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 30/07/2018

Date of expiry: 30/07/2021

ABCB JAS-ANZ

		windows		
	F4.2	Health & Amenity – Natural Light	**3.8.4.2**	Natural Light
	F4.3	Health & Amenity – Natural Light borrowed from adjoining room		
	F4.6	Health & Amenity – Ventilation	**3.8.5.2**	Ventilation
	F4.7	Health & Amenity – Ventilation borrowed from adjoining room		
	G5.2	Construction in Bushfire Prone Areas	**3.7.4.0**	Bushfire Areas
	J1.4	Energy Efficiency – Building Fabric	**3.12.1.3**	Energy Efficiency – Building Fabric
	J3.3	Energy Efficiency – Building Sealing	**3.12.3.2**	Energy Efficiency – Building Sealing
State or territory variation(s):	**NT Spec B1.2**	NT Addition to Spec B1.2 for use in Cyclonic areas		
	VIC F4.2 (b), (c) & (d)	Health & Amenity – Natural Light		
	NSW G5.2	Construction in Bushfire Prone Areas	**NSW 3.7.4.0**	Bushfire Areas
	SA G5.2	Construction in Bushfire Prone Areas	**SA 3.7.4.0**	Bushfire Areas
			QLD 3.7.4.0	Bushfire Areas
			TAS 3.7.4.0	Bushfire Areas
	NSW Section J	Refer to NSW J(A)P1 & J(B)1		
	NT Section J	Replaced by BCA2009 Section J		
	QLD Section J	Replaced by BCA2009 Section J		

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:	**Building classification/s:**
Vol 1 - A1.1 and Vol 2 - 1.1.1 – Definitions: Velux Roof Windows are to be installed at an angle between 0 and 70 degrees measured from the horizontal plane.	**All Building Types**
Vol 1 B1.4 (h) (ii) Velux Roof Windows with EDW Flashing kits have maximum design wind load limits as published within the relevant technical data	**2, 3, 4, 5, 6, 7, 8 & 9**

sheets.	
Vol 2 - 3.6.1 – Structure - Glazing Velux Roof Windows and Flashing kits are to be specified only for non-cyclonic wind zones (up to N3 wind regions) and have maximum permissible design wind load limits as published within the relevant technical data sheets.	**1 & 10**
Vol 1 - Spec C1.1 – 3.6 When installed in a roof that is required to have a FRL or where the roof covering is required to be non-combustible, the roof lights, skylights or the like must: (a) have an aggregate area of not more than 20% of the roof surface; and (b) be not less than 3 m from— (i) any boundary of the allotment other than the boundary with a road or public place; and (ii) any part of the building which projects above the roof unless that part has the FRL required of a fire wall and any openings in that part of the wall for 6 m vertically above the rooflight or the like are protected in accordance with C3.4; and (iii) any rooflight or the like in an adjoining sole-occupancy unit if the walls bounding the unit are required to have an FRL; and (iv) any rooflight or the like in an adjoining fire-separated section of the building; and (c) if a ceiling with a resistance to the incipient spread of fire is required, be installed in a way that will maintain the level of protection provided by the ceiling to the roof space.	**2, 3, 4, 5, 6, 7, 8 & 9**
Vol 2 -3.7.1.10 When installed in a roof that is required to have a non-combustible covering, roof lights, skylights or the like must: (a) have an aggregate area not more than 20% of the roof or part of the roof; and (b) be not less than (i) 900 mm from (A) the allotment boundary other than the boundary adjoining a road alignment or other public space; and (B) the vertical projection of a separating wall extending to the underside of the roof covering; and (ii) 1.8 m from any roof light or the like in another building on the allotment other than an appurtenant building or a detached part of the same building.	**1 &10**
Vol 1 - D2.12 – Access & Egress Roof Windows shall not be placed within 3 metres of an emergency access path when the emergency access path crosses the same roof area.	**2, 3, 4, 5, 6, 7, 8 & 9**
Vol 1 – F4.2 & F4.3 & Vol 2 – 3.8.4.2 – Natural Light Compliance requires combined window, roof light and other opening areas to total a minimum percentage of floor area for the room – when solely relying upon roof lights no less than 3% of room floor area is required for Roof Lights, alternately 10% of room floor area for Windows, or a proportional combination of the two.	**All Building Types**

Vol 1 – F4.6 & F4.7 & Vol 2 – 3.8.5.2 – Ventilation Applicable for habitable rooms, offices, shops, factories, workrooms, sanitary compartments, bathrooms, shower rooms, laundries and any other rooms occupied by a person that requires Natural ventilation. Compliance requires combined window, roof light and other opening areas to total a minimum of 5% of the total floor area of the room – therefore if solely relying upon roof lights, no less than 5% of room floor area is required in Roof Light opening area for natural ventilation.	**All Building Types**
Vol 1 – G5.2 & Vol 2 – 3.7.4.0 Bushfire Construction Velux Roof Windows with EDW Flashing kits may be installed in buildings in designated bushfire prone areas of up to and including BAL40.	**1, 2, 3 & 10**
Vol 1 JP1 & Vol 2 P2.6.1 U_W & $SHGC_W$ values in accordance with energy efficiency & building fabric requirements.	**All Building Types**
Vol 1 NSW JP1 & Vol 2 NSW P2.6.1 U_W & $SHGC_W$ values in accordance with NSW BASIX.	**1, 2, 4 & 10**
Vol 1 NSW J(A)P1 & J(B)1 U_W & $SHGC_W$ values in accordance with energy efficiency requirements.	**3, 5, 6, 7, 8 & 9**
Vol 1 NT & QLD Section J U_W & $SHGC_W$ values in accordance with energy efficiency requirements of BCA 2009 Section J.	**2, 3, 4, 5, 6, 7, 8 & 9**
Vol 2 NT Part 2.6 U_W & $SHGC_W$ values in accordance with building fabric requirements of BCA 2009 Part 2.6.	**1 & 10**
Vol 2 VIC P2.6.1 U_W & $SHGC_W$ values in accordance with building fabric requirements.	**1 & 10**
General Velux Roof Windows & Flashing kits to be specified in accordance with the document(s) listed in Appendix A, A3 of this certificate by a suitably qualified building professional.	**All Building Types**
General Velux Roof Windows & Flashing kits to be installed in accordance with the document(s) listed in Appendix A, A5 of this certificate by a suitably qualified building professional.	**All Building Types**

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

See page 1 of this certificate: Type and/or use of product

A2 Description of product

See page 1 of this certificate: Description of product

A3 Product specification

Refer to items 1, 2, 3, 4, 5, 6, 7 & 8 listed in B2:

1. Aust GGL Product Sheet 2018 web
2. V22 GGL light & ventilation
3. Declaration of Performance GGL 3076 F
4. Declaration of Performance GGL 2076 F
5. Aust GPL Product Sheet 2018 web
6. V22 GPL light & ventilation
7. Declaration of Performance GPL 3076F
8. Declaration of Performance GPL 2076F
9. EDW Flashing V22 - 453578-2013-10 – Installation instructions

A4 Manufacturer and manufacturing plant(s)

Velux Australia Pty Ltd
78 Henderson Road
Alexandria NSW 2015
Australia

VKR France
Zone Industrielle
80210 Feuquièires-en-Vimeu (Somme)
FRANCE

A5 Installation requirements

Roof windows may be installed in orientations between 0 and 70 degrees when measured from the horizontal plane.

Refer to Velux product installation instructions:

- GGL ROOF WINDOW V22 - 452953-2013-03
- GPL ROOF WINDOW V22 - 452954-2014-06
- EDW Flashing V22 - 453578-2013-10

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendix A, A3 and Appendix A, A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with NCC 2016:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
NCC Vol One FP1.4	A0.5 (a)	A2.2 a(iv) – Test report	Items 27, 28, 29 & 30
NCC Vol Two P2.2.2	1.0.5 (a)	1.2.2 a(i) – Test report	Items 27, 28, 29 & 30
NCC Vol One CP2	A0.5 (c)	A2.2 a(v) – Expert report	Item 12
NCC Vol Two P2.3.1	1.0.5 (c)	1.2.2 a(iii) – Expert report	Item 12
NCC Vol One B1.4 (h) (ii)	A0.5 (a)	Combination of A2.2 a(iv) & a(v) – Test report & Engineer certificate	Items 10, 11, 27, 28 & 30
NCC Vol Two 3.6.0 (b)	1.0.5 (a)	Combination of 1.2.2 a(i) & a(iii) – Test report & Engineer certificate	Items 10, 11, 27, 28 & 30
NCC Vol Two 3.11.6 (i)(ii)	1.0.5 (a)	Combination of 1.2.2 a(i) & a(iii) – Test report & Engineer certificate	Items 10, 11, 27, 28 & 30
NCC Vol One Specification B1.2	A0.5 (a)	A2.2 a(iv) – Test report	Item 28
NCC Vol Two 3.10.1.0 (e)(ii) & (f)	1.0.5 (a)	1.2.2 a(i) – Test report	Item 28
NCC Vol One D2.24	A0.5 (a)	A2.2 a(iv) – Test report	Items 18, 19, 20, 21, 22, 23, 24, 25 & 26
NCC Vol Two 3.9.2.5	1.0.5 (a)	1.2.2 a(i) – Test report	Items 18, 19, 20, 21, 22, 23, 24, 25 & 26
NCC Vol One F4.2	A0.5 (a)	Combination of A2.2 a(vi) & A2.2 c(ii) – Product Data & Calculation	Items 1, 2, 5 & 6
NCC Vol One F4.3	A0.5 (a)	Combination of A2.2 a(vi) & A2.2 c(ii) – Product Data & Calculation	Items 1, 2, 5 & 6
NCC Vol Two 3.8.4.2	1.0.5 (a)	Combination of 1.2.2 a(vi) & 1.2.2 b(ii) – Product Data & Calculation	Items 1, 2, 5 & 6
NCC Vol One F4.6	A0.5 (a)	Combination of A2.2 a(vi) & A2.2 c(ii) – Product Data & Calculation	Items 1, 2, 5 & 6
NCC Vol One F4.7	A0.5 (a)	Combination of A2.2 a(vi) & A2.2 c(ii) – Product Data & Calculation	Items 1, 2, 5 & 6
NCC Vol Two 3.8.5.2	1.0.5 (a)	Combination of 1.2.2 a(vi) & 1.2.2 b(ii) – Product Data & Calculation	Items 1, 2, 5 & 6
NCC Vol One G5.2	A0.5 (a)	Combination of A2.2 a(iv) & a(v) – Test report & Expert report	Items 13, 14, 15, 16 & 17
NCC Vol Two 3.7.4.0	1.0.5 (a)	Combination of 1.2.2 a(i) & a(iii) – Test report & Expert report	Items 13, 14, 15, 16 & 17
NCC Vol One J1.4	Combination of A0.5 (a) & (b)	Combination of A2.2 a(iii) & a(vi) – Other Certificates & Calculation	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 31, 33, 34, 35 & 36
NCC Vol Two 3.12.1.3	Combination of 1.0.5 (a) & (b)	Combination of 1.2.2 a(iii) & a(vi) – Other Certificates & Calculation	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 31, 33, 34, 35 & 36
NCC Vol One J3.3	A0.5 (a)	A2.2 a(iv) – Test report	Item 32
NCC Vol Two 3.12.3.2	1.0.5 (a)	1.2.2a(i) – Test report	Item 32

B2 Reports

The following reports have been used as evidence to determine compliance with NCC 2016:

Ref	Author	Reference	Date	Description	NATA Registration
1	Velux Australia Pty Ltd	Aust GGL Product Sheet 2018 web	Jan 18	Product data sheet for GGL Centre Pivot Roof Windows	–
2	Velux Australia Pty Ltd	-	2016	Technical data sheet for GGL/GGU Centre Pivot Roof Windows	–
3	Velux Australia Pty Ltd	GGL SK08 3076F 39BG09	25-Sep-17	Declaration of Product Performance	–
4	Velux Australia Pty Ltd	GGL SK08 2076F 39BG09	27-Sep-17	Declaration of Product Performance	–
5	Velux Australia Pty Ltd	Aust GPL Product Sheet 2018 web	Jan 18	Product data sheet for GPL Dual Action Roof Windows	–
6	Velux Australia Pty Ltd	-	2016	Technical data sheet for GPL Dual Action Roof Windows	–
7	Velux Australia Pty Ltd	GPL SK08 3076F 39BG09	25-Sep-17	Declaration of Product Performance	–
8	Velux Australia Pty Ltd	GPL SK08 2076F 39BG09	27-Sep-17	Declaration of Product Performance	–
9	Velux Australia Pty Ltd	-	27-Sep-17	Letter relating to Velux product groups	–
10	Calderone & Associates	Form 15	16-Jul-17	Structural Certificate	–
11	Calderone & Associates	-	16-Jul-17	Structural Analysis Report	–
12	CSIRO	FCO-2046	05-Jun-17	Fire Assessment Report	165
13	Exova Warringtonfire	43664500	22-Jul-16	Fire Assessment Report	3277
14	Exova Warringtonfire	2391801.2	05-Jan-10	Fire Test Report	3277
15	Exova Warringtonfire	31155000.1	15-Jan-15	Fire Test Report	3277
16	Exova Warringtonfire	2548901.1	25-Feb-11	Fire Test Report	3277
17	Exova Warringtonfire	31154900.1	15-Jan-15	Fire Test Report	3277
18	Ian Bennie & Associates	2014-006-S1	05-May-14	Window Opener Test Certificate	2371
19	Ian Bennie & Associates	2014-006-S3	07-May-14	Window Opener Test Certificate	2371
20	Ian Bennie & Associates	2017-016-NCC-S4	13-Jul-17	Window Opener Test Certificate	2371
21	Ian Bennie & Associates	2017-016-POW-S4	13-Jul-17	Window Opener Test Certificate	2371
22	Ian Bennie & Associates	2014-006-S4	07-May-14	Window Opener Test Certificate	2371
23	Ian Bennie & Associates	2017-016-NCC-S3	13-Jul-17	Window Opener Test Certificate	2371
24	Ian Bennie & Associates	2017-016-POW-S3	13-Jul-17	Window Opener Test Certificate	2371
25	Ian Bennie & Associates	2014-006-S6	07-May-14	Window Opener Test Certificate	2371
26	Ian Bennie & Associates	2014-006-S5B	07-May-14	Window Opener Test Certificate	2371
27	Ian Bennie & Associates	4023S5	06-Dec-04	Weathertightness & Structural Test Report	2371
28	Ian Bennie & Associates	4023S8	06-Dec-04	Weathertightness & Structural Test Report	2371
29	Ian Bennie & Associates	2009-098-S8	18-Jan-10	Weathertightness & Structural Test Report	2371
30	Ian Bennie & Associates	2014-067-S2&5	10-Dec-14	Weathertightness & Structural Test Report	2371

Certificate of Conformity

B2 Reports cont'd

Ref	Author	Reference	Date	Description	NATA Registration
31	Australian Windows Association	Velux Window Testing	18-Jul-17	WERS certificate	–
32	Ian Bennie & Associates	2017-016-R1	13-Jul-17	Windows Test Report	2371
33	Danish Technological Institute	0108/728433	23-Nov-16	Windows Performance Certificate	–
34	Danish Technological Institute	LTN/MJLD	11-Aug-17	Letter relating to Velux product groups	–
35	Danish Technological Institute	0108/728433b	23-Nov-16	Windows Performance Report	–
36	IFT Rosenheim	13-000540-PR03	20-Feb-14	Windows Performance Certificate	–

End of Certificate