SERTUS™

REF IG / RLB-R / RLB-RG / 13.12.23
VERSION 2.0

Installation Guide –

Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

These instructions should be used for:

- All Roof Louvre Blade – Residential / Residential Glass installations to ensure compliance with the requirements of EN12101-2:2003
- Installing smoke vent supplied with adaptor collar
- Constructing and waterproofing a timber upstand curb
- Electrical installation

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

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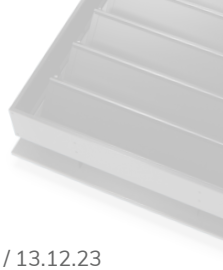

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Handling & Storage

While all smoke vents and associated products are suitably packaged to avoid damage, care should be exercised when handling. For moving larger items, two or more people may be needed.

All smoke vents and accessories must be stored on a flat dry surface under cover prior to fixing and protected from the rain. Heavy items should not be placed on top as this can lead to damage or distortion.

The HSE Publication Safety in Roofwork HSG33 gives good advice on the precautions of safe working practices and procedures that need to be adopted when working on roofs.

Note:

High security fixings are supplied with all products and are designed to prevent subsequent removal.

General Notes

Remove tar stains that may result from felting operation with turpentine and rinse with plenty of water. Clean with mild soapy water (no abrasives) and always rinse with plenty of water. In normal weather and site conditions, only occasional cleaning is required. No other maintenance should be necessary.

This is an electrical appliance and should be tested periodically to the relevant electrical specification. Check the power cable for damage and signs of wear.

Warning Notes

This unit has been constructed and tested in accordance with EN12101-2. Any dismantling or modification will render the CE certificate invalid.

The smoke vent actuator is supplied with a length of silicone cable. This can be used in conjunction with an 18 – 24VDC battery to power the unit open if required before the unit is connected to the electrical supply. To close the rooflight reverse the polarity of contacts.

Notes:

Hazard of squashing body parts inserted between moveable and fixed parts of the rooflight. Assume a safe visual control position when operating. Installation must comply with all applicable local building regulations.

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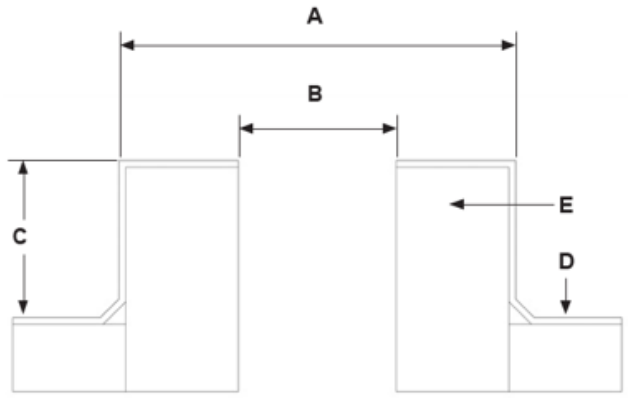
Constructing & Waterproofing A Timber Upstand Curb

Construct the upstand to finish 150mm above finished roof level. Upstand must be flat-topped (straight, level, square etc). Apply the waterproofing (in accordance with manufacturer's recommendations) up and across top of upstand to give a flat even surface.

Example: smoke vent daylight size		**1000 x 1000mm**
A	Overall upstand size (external)	1200 x 1200mm min
B	Internal upstand size (inc lining)	1000 x 1000mm
C	Minimum height	150mm
D	Waterproofing	in accordance with manufacturer's instructions
E	Builders kerb	Material timber, concrete

Note: For asphalt in excess of 13mm thick, contact your supplier.



Diag. 1

Installing Smoke Vent With Adaptor Collar As Supplied

The louvre smoke vent unit is supplied as a collar complete with separate base flange which must be fixed first to the top of a builder's upstand of timber, concrete etc with a minimum height of 150mm above the finished roof surface.

The builder's upstand should be constructed so that the inside face finishes to the same dimensions as the internal opening of the base flange and the overall thickness of the curb must be at least 100mm to ensure sufficient fixing.

Position the base flange centrally over the internal builder's curb opening and secure firmly using the waterproof washers and caps supplied. It is recommended to use a bead of suitable sealant on the underside of the base flange to provide an airtight seating

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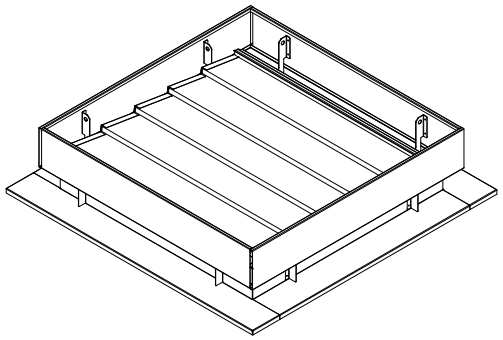
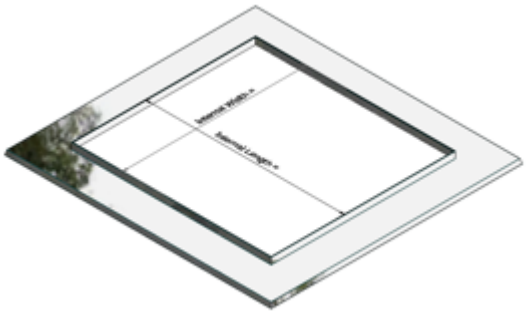
Fix the base flange through at 300mm centres ensuring the fixings are placed into the upstand. Maximum distance of fixing from corner should be 100mm.

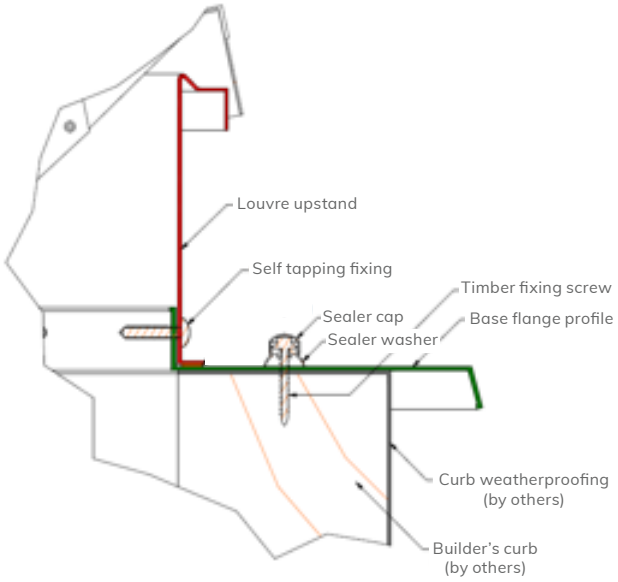
Apply the butyl seal to the underside of the louvre vent upstand as shown in diagram.

Now position the louvre vent upstand over the base flange and secure through the sides using the self tapping fixings provided as shown in the diagram (below).

Note: Some sizes are supplied with base flange integral.







Electrical Installation

Technical Information

Opening Angle of Blades	90°
Supply Voltage	24V DC reverse polarity
Max Current	2.0A–2.6A refer to motor label

This electric actuator is designed to operate via the Sertus Networked Control System (CNS-R) and Sertus Addressable Control System (CAS-R). This can be either used as a stand-alone system or from the building fire alarm system.

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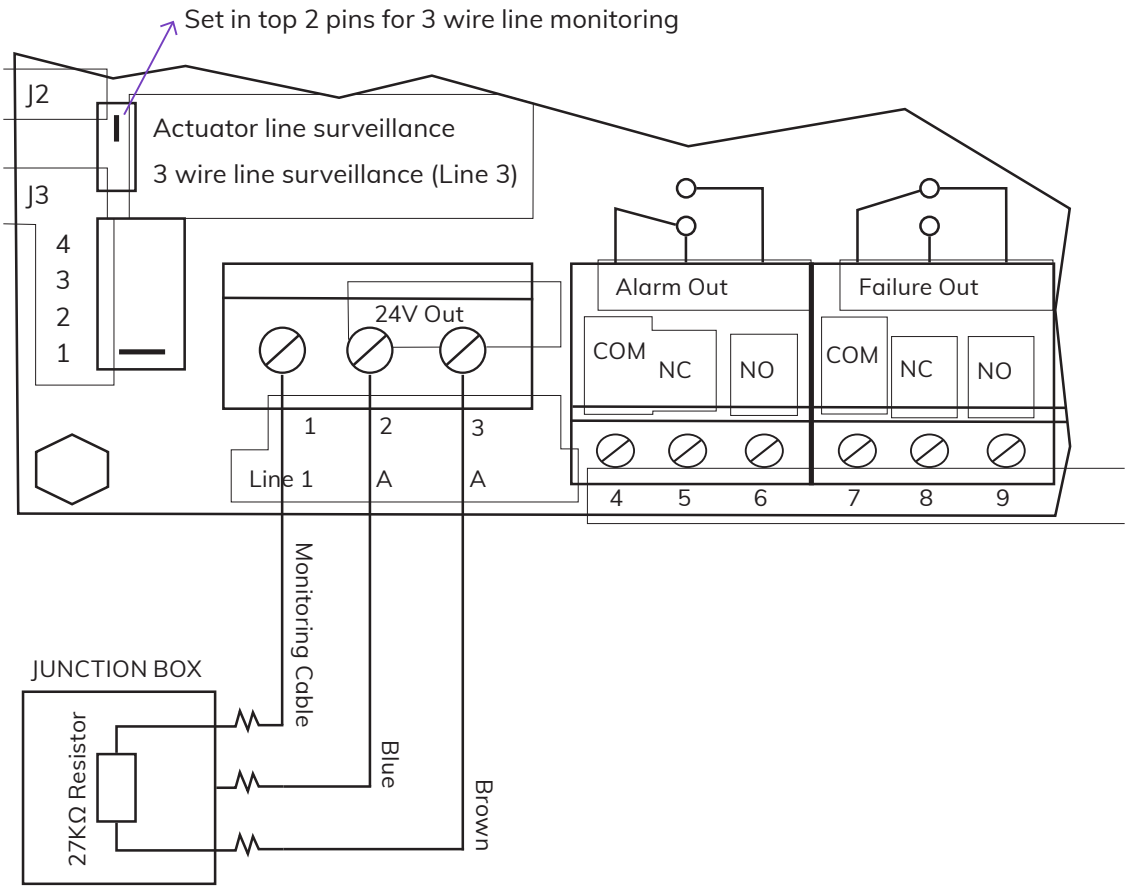
Note:

Sertus cannot provide technical support for the smoke vent if used in conjunction with another manufacturer's system.

This unit must be connected by a qualified electrical engineer. Before commencing any electrical work always switch off at the mains. It is recommended that actuator line monitoring is used. This can be provided by an extra connection in Terminal 1 of control panel. Please refer to page 7 of the Control Panel installation instructions for further information.

Wiring diagram below shows the wiring details for the Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG) smoke vent in conjunction with the Sertus Networked Control System (CNS-R).

Installation with Networked Controls



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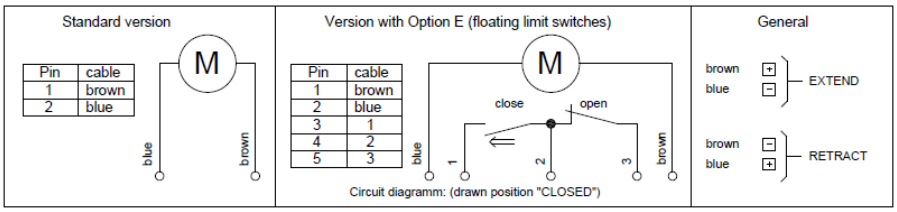
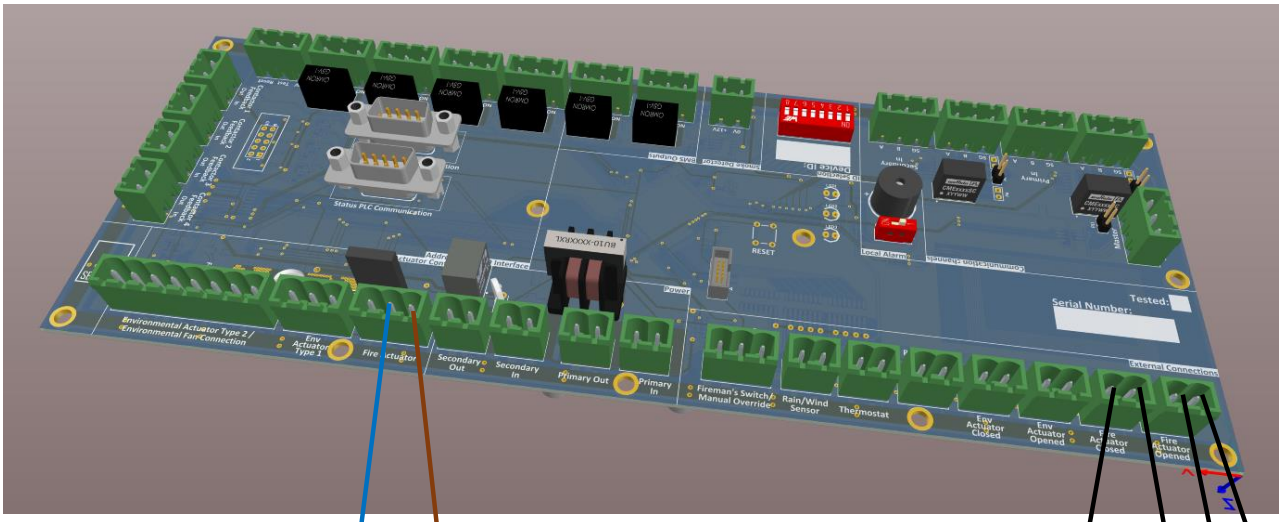
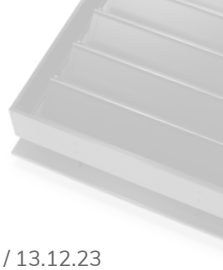
Installation with Addressable Controls

Connection diagramms:







Installation Guide –

Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance
No: RLB-R / RLB-RG-0370-CPR-4061-20

Description	Details
1. Product Type: Unique identification code of the product-type	Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG) Smoke & Heat Ventilator
2. Type: Batch or serial number or any other element allowing identification of the construction product as required under Article 11(4)	RLB-R / RLB-RG for Batch Number see Product labelling
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	Dual purpose ventilator, intended for comfort ventilation as well as smoke and heat exhaust ventilation under fire conditions
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5)	RLB-R / RLB-RG SERTUS Ltd Europa House, Alfold Road Cranleigh GU6 8NQ sales@sertus.uk
5. Contact Address: Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified on Article 12(2)	Not applicable
6. AVCP: System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V	AVCP System 1
7. Notified body (hEN): In case of the declaration of performance (DoP) concerning a construction product covered by a harmonised standard	Notified Body No. 0370 LGAI Technological Center SA (APPLUS) Campus UAB s/n – Ronda de la Font del Carme s/n E – 08193 Bellaterra, Barcelona, Spain
8. Notified body (ETA): In case of the declaration of performance concerning a construction product for which a European Technical Assessment (ETA) has been issued:	Not applicable (see 7)

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

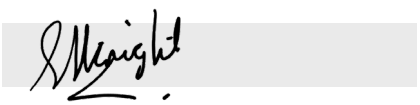
9. Declared performance

Essential Characteristics	Performance	Harmonised Standard
Reaction to Fire: Polycarbonate Aluminium PIR insulation	 B-S1 d0 A1 E	EN 12101-2:2003, 7.5.2.1
Resistance to Heat	B300	EN 12101-2:2003 Annex G
Snow Load	SL 500 (max 3000 x 2200mm SL1000 (max 2400 x 1600mm)	EN 12101-2:2003 Annex D–E
Wind Load	WL 1500	EN 12101-2:2003 Annex F
Low Ambient Temperature	T (-15)	EN 12101-2:2003 Annex D–E
Reliability	Re 1000	EN 12101-2:2003 Annex C
Aerodynamic Free Area	See tables 1 & 2 For sizes not covered by tables Cv = 0.40	EN 12101-2:2003 Annex H
Dangerous Substances	No dangerous substances above the acceptable limits	N/A

10. Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:



Steve Knight, Technical Director

Cranleigh, March 2019

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 1: Cv – for upstand 350mm High (Coefficient of discharge) according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
400	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
500	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
600	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
700	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65
800	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65
900	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65
1000	0.63	0.63	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
1100	0.63	0.63	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
1200	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66
1300	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66
1400	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66
1500	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66
1600	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66
1700	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66
1800	0.64	0.64	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
1900	0.64	0.64	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
2000	0.64	0.64	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
2100	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
2200	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
2300	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
2400	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

REF IG / RLB-R / RLB-RG / 13.12.23
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Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 2: Av = length x width (Geometric Area of the Ventilator, m²) according EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	0.22	0.29	0.36	0.42	0.49	0.55	0.62	0.69	0.75	0.82	0.88	0.95	1.02	1.08	1.15
400	0.30	0.39	0.47	0.56	0.65	0.74	0.83	0.91	1.00	1.09	1.18	1.27	1.35	1.44	1.53
500	0.37	0.48	0.59	0.70	0.81	0.92	1.03	1.14	1.25	1.36	1.47	1.58	1.69	1.80	1.91
600	0.45	0.58	0.71	0.84	0.98	1.11	1.24	1.37	1.50	1.64	1.77	1.90	2.03	2.16	2.30
700	0.52	0.68	0.83	0.98	1.14	1.29	1.45	1.60	1.75	1.91	2.06	2.22	2.37	2.52	2.68
800	0.60	0.77	0.95	1.12	1.30	1.48	1.65	1.83	2.00	2.18	2.36	2.53	2.71	2.88	3.06
900	0.67	0.87	1.07	1.27	1.46	1.66	1.86	2.06	2.26	2.45	2.65	2.85	3.05	3.25	3.44
1000	0.75	0.97	1.19	1.41	1.63	1.85	2.07	2.29	2.51	2.73	2.95	3.17	3.39	3.61	3.83
1100	0.82	1.06	1.30	1.55	1.79	2.03	2.27	2.51	2.76	3.00	3.24	3.48	3.72	3.97	4.21
1200	0.90	1.16	1.42	1.69	1.95	2.22	2.48	2.74	3.01	3.27	3.54	3.80	4.06	4.33	4.59
1300	0.97	1.26	1.54	1.83	2.11	2.40	2.69	2.97	3.26	3.54	3.83	4.12	4.40	4.69	4.97
1400	1.04	1.35	1.66	1.97	2.28	2.58	2.89	3.20	3.51	3.82	4.12	4.43	4.74	5.05	5.36
1500	1.12	1.45	1.78	2.11	2.44	2.77	3.10	3.43	3.76	4.09	4.42	4.75	5.08	5.41	5.74
1600	1.19	1.55	1.90	2.25	2.60	2.95	3.31	3.66	4.01	4.36	4.71	5.07	5.42	5.77	6.12
1700	1.27	1.64	2.02	2.39	2.76	3.14	3.51	3.89	4.26	4.63	5.01	5.38	5.76	6.13	6.50
1800	1.34	1.74	2.13	2.53	2.93	3.32	3.72	4.11	4.51	4.91	5.30	5.70	6.09	6.49	6.89
1900	1.42	1.84	2.25	2.67	3.09	3.51	3.93	4.34	4.76	5.18	5.60	6.02	6.43	6.85	7.27
2000	1.49	1.93	2.37	2.81	3.25	3.69	4.13	4.57	5.01	5.45	5.89	6.33	6.77	7.21	7.65
2100	1.57	2.03	2.49	2.95	3.41	3.88	4.34	4.80	5.26	5.72	6.19	6.65	7.11	7.57	8.03
2200	1.64	2.13	2.61	3.09	3.58	4.06	4.55	5.03	5.51	6.00	6.48	6.97	7.45	7.93	8.42
2300	1.72	2.22	2.73	3.23	3.74	4.25	4.75	5.26	5.76	6.27	6.78	7.28	7.79	8.29	8.80
2400	1.79	2.32	2.85	3.37	3.90	4.43	4.96	5.49	6.01	6.54	7.07	7.60	8.13	8.65	9.18

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 3: Aa (Av x Cv, Aerodynamic Free Area, m²) according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	0.14	0.18	0.22	0.26	0.30	0.34	0.39	0.43	0.47	0.52	0.56	0.60	0.64	0.68	0.72
400	0.18	0.24	0.29	0.35	0.40	0.46	0.52	0.58	0.63	0.69	0.74	0.80	0.85	0.91	0.96
500	0.23	0.29	0.37	0.44	0.50	0.57	0.65	0.72	0.79	0.86	0.93	1.00	1.07	1.14	1.21
600	0.27	0.35	0.44	0.52	0.60	0.69	0.78	0.86	0.95	1.03	1.11	1.20	1.28	1.36	1.45
700	0.33	0.43	0.52	0.62	0.73	0.83	0.93	1.02	1.12	1.22	1.32	1.42	1.54	1.64	1.74
800	0.38	0.49	0.60	0.71	0.83	0.95	1.06	1.17	1.28	1.40	1.51	1.62	1.76	1.88	1.99
900	0.42	0.55	0.67	0.80	0.94	1.06	1.19	1.32	1.44	1.57	1.70	1.82	1.98	2.11	2.24
1000	0.47	0.61	0.76	0.90	1.04	1.18	1.34	1.49	1.63	1.77	1.91	2.06	2.20	2.34	2.49
1100	0.52	0.67	0.83	0.99	1.14	1.30	1.48	1.63	1.79	1.95	2.11	2.26	2.42	2.58	2.74
1200	0.57	0.74	0.91	1.08	1.27	1.44	1.61	1.78	1.95	2.13	2.30	2.47	2.68	2.86	3.03
1300	0.62	0.80	0.99	1.17	1.37	1.56	1.75	1.93	2.12	2.30	2.49	2.68	2.91	3.09	3.28
1400	0.67	0.87	1.06	1.26	1.48	1.68	1.88	2.08	2.28	2.48	2.68	2.88	3.13	3.33	3.54
1500	0.72	0.93	1.14	1.37	1.59	1.80	2.01	2.23	2.48	2.70	2.92	3.13	3.35	3.57	3.79
1600	0.76	0.99	1.21	1.46	1.69	1.92	2.15	2.38	2.65	2.88	3.11	3.34	3.58	3.81	4.04
1700	0.81	1.05	1.29	1.55	1.80	2.04	2.28	2.53	2.81	3.06	3.31	3.55	3.80	4.05	4.29
1800	0.86	1.11	1.39	1.65	1.90	2.16	2.45	2.72	2.98	3.24	3.50	3.76	4.02	4.28	4.55
1900	0.91	1.17	1.46	1.74	2.01	2.28	2.59	2.87	3.14	3.42	3.69	3.97	4.25	4.52	4.80
2000	0.95	1.24	1.54	1.83	2.11	2.40	2.73	3.02	3.31	3.60	3.89	4.18	4.47	4.76	5.05
2100	1.00	1.30	1.62	1.92	2.22	2.56	2.86	3.17	3.47	3.78	4.08	4.39	4.69	5.00	5.30
2200	1.05	1.36	1.70	2.01	2.33	2.68	3.00	3.32	3.64	3.96	4.28	4.60	4.92	5.24	5.56
2300	1.10	1.42	1.77	2.10	2.43	2.80	3.14	3.47	3.80	4.14	4.47	4.81	5.14	5.47	5.81
2400	1.15	1.48	1.85	2.19	2.54	2.92	3.27	3.62	3.97	4.32	4.67	5.01	5.36	5.71	6.06

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 4: Free Area (m²) according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	0.15	0.20	0.25	0.29	0.34	0.39	0.44	0.49	0.54	0.58	0.63	0.68	0.73	0.78	0.73
400	0.20	0.27	0.34	0.41	0.47	0.54	0.61	0.68	0.74	0.81	0.88	0.95	1.01	1.08	1.15
500	0.26	0.35	0.43	0.52	0.61	0.69	0.78	0.87	0.93	1.04	1.13	1.21	1.30	1.39	1.47
600	0.31	0.42	0.53	0.63	0.74	0.84	0.95	1.06	1.16	1.27	1.37	1.48	1.59	1.69	1.80
700	0.37	0.49	0.62	0.74	0.87	0.99	1.12	1.24	1.37	1.49	1.62	1.75	1.87	2.00	2.12
800	0.42	0.57	0.71	0.86	1.00	1.14	1.29	1.43	1.58	1.72	1.87	2.01	2.16	2.30	2.44
900	0.48	0.64	0.81	0.97	1.13	1.30	1.49	1.62	1.79	1.95	2.11	2.28	2.44	2.60	2.77
1000	0.53	0.72	0.90	1.08	1.26	1.45	1.63	1.81	1.99	2.18	2.36	2.54	2.73	2.91	3.09
1100	0.59	0.79	0.99	1.19	1.40	1.60	1.80	2.00	2.20	2.41	2.61	2.81	3.01	3.21	3.41
1200	0.64	0.86	1.08	1.31	1.53	1.75	1.97	2.19	2.41	2.63	2.85	3.08	3.30	3.52	3.74
1300	0.70	0.94	1.18	1.42	1.66	1.90	2.14	2.38	2.62	2.86	3.10	3.34	3.58	3.82	4.06
1400	0.75	1.01	1.27	1.53	1.79	2.05	2.31	2.57	2.83	3.09	3.35	3.61	3.87	4.13	4.39
1500	0.81	1.09	1.36	1.64	1.92	2.20	2.48	2.76	3.04	3.32	3.59	3.87	4.15	4.43	4.71
1600	0.86	1.16	1.46	1.76	2.05	2.35	2.65	2.95	3.25	3.54	3.84	4.14	4.44	4.73	5.03
1700	0.92	1.23	1.55	1.87	2.18	2.50	2.82	3.14	3.45	3.77	4.09	4.41	4.72	5.04	5.36
1800	0.97	1.31	1.64	1.98	2.32	2.65	2.99	3.33	3.66	4.00	4.33	4.67	5.01	5.34	5.68
1900	1.03	1.38	1.74	2.09	2.45	2.80	3.16	3.51	3.87	4.23	4.58	4.94	5.29	5.65	6.00
2000	1.08	1.46	1.83	2.20	2.58	2.95	3.33	3.70	4.08	4.45	4.83	5.20	5.58	5.95	6.33
2100	1.14	1.53	1.92	2.32	2.71	3.11	3.50	3.89	4.29	4.68	5.08	5.47	5.86	6.26	6.65
2200	1.19	1.60	2.02	2.43	2.84	3.26	3.67	4.08	4.50	4.91	5.32	5.74	6.15	6.56	6.97
2300	1.25	1.68	2.11	2.54	2.97	3.41	3.84	4.27	4.70	5.14	5.57	6.00	6.43	6.87	7.30
2400	1.30	1.75	2.20	2.65	3.11	3.56	4.01	4.46	4.91	5.36	5.82	6.27	6.72	7.17	7.62

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 5: Snow Load with Glass Louvres – 1 Electric Actuator according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	250	250	250	250	250	250	250	250	250	250	250	250	250		
400	250	250	250	250	250	250	250	250	250	250	250	250	250		
500	250	250	250	250	250	250	250	250	250	250	250	250	250		
600	250	250	250	250	250	250	250	250	250	250	250	250	250		
700	250	250	250	250	250	250	250	250	250	250	250	250	250		
800	250	250	250	250	250	250	250	250	250	250	250	250	250		
900	250	250	250	250	250	250	250	250	250	250	250	250	250		
1000	250	250	250	250	250	250	250	250	250	250	250	250	250		
1100	250	250	250	250	250	250	250	250	250	250	250	250	250		
1200	250	250	250	250	250	250	250	250	250	250	250				
1300	250	250	250	250	250	250	250	250	250						
1400	250	250	250	250	250	250	250	250	250						
1500	250	250	250	250	250	250	250	250	250						
1600	250	250	250	250	250	250	250	250	250						
1700	250	250	250	250	250	250	250	250	250						
1800															
1900															
2000															
2100															
2200															
2300															
2400															

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 6: Snow Load with Aluminium Louvres – 1 Electric Actuator according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
400	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
500	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
600	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
700	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
800	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
900	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
1000	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
1100	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
1200	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
1300	250	250	250	250	250	250	250	250	250	250	250	250	250		
1400	250	250	250	250	250	250	250	250	250	250	250	250			
1500	250	250	250	250	250	250	250	250	250	250	250				
1600	250	250	250	250	250	250	250	250	250	250					
1700	250	250	250	250	250	250	250	250	250						
1800	250	250	250	250	250	250	250	250							
1900	250	250	250	250	250	250	250	250							
2000	250	250	250	250	250	250	250								
2100	250	250	250	250	250	250	250								
2200	250	250	250	250	250	250									
2300	250	250	250	250	250	250									
2400	250	250	250	250	250	250									

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 7: Snow Load with PC16, PC25 or Aluminium Insulated Louvres – 1 Electric Actuator according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
400	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
500	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
600	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
700	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
800	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
900	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
1000	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
1100	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
1200	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
1300	250	250	250	250	250	250	250	250	250	250	250	250	250		
1400	250	250	250	250	250	250	250	250	250	250	250				
1500	250	250	250	250	250	250	250	250	250	250					
1600	250	250	250	250	250	250	250	250	250	250					
1700	250	250	250	250	250	250	250	250	250						
1800	250	250	250	250	250	250	250	250							
1900	250	250	250	250	250	250	250	250							
2000	250	250	250	250	250	250	250								
2100	250	250	250	250	250	250	250								
2200	250	250	250	250	250	250									
2300	250	250	250	250	250	250									
2400	250	250	250	250	250										

Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 8: Snow Load with Glass Louvres – 2 Electric Actuators according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
400	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
600	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
800	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
900	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
1100	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
1200	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000				
1300	1000	1000	1000	1000	1000	1000	1000	1000	1000						
1400	1000	1000	1000	1000	1000	1000	1000	1000	1000						
1500	1000	1000	1000	1000	1000	1000	1000	1000	1000						
1600	1000	1000	1000	1000	1000	1000	1000	1000	1000						
1700	1000	1000	1000	1000	1000	1000	1000	1000	1000						
1800															
1900															
2000															
2100															
2200															
2300															
2400															

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Roof Louvre Blade – Residential / Residential Glass (RLB-R / RLB-RG)

Declaration of Performance (cont.)
No: RLB-R / RLB-RG-0370-CPR-4061-20

Table 9: Snow Load with PC16, PC25, Aluminium Insulated or Aluminium Louvres – 2 Electric Actuators according to EN 12101-2

Length (mm)	746	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
No. of Louvres	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Width (mm)															
300	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
400	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
600	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
800	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
900	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1100	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1200	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
1300	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
1400	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500
1500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500
1600	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	500
1700	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	250
1800	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	250	250
1900	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	250	250	250
2000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	250	250	250
2100	1000	1000	1000	1000	1000	1000	500	500	500	500	500	250	250	250	250
2200	1000	1000	1000	1000	1000	1000	500	500	500	500	250	250	250	250	250
2300	1000	1000	1000	1000	1000	1000	500	500	500	500	250	250	250	250	250
2400	1000	1000	1000	1000	1000	500	500	500	500	250	250	250	250	250	250

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