

LAMILUX Glass Skylight FE Passivhaus.

Technical data sheet.



We recommend installation onto a substructure/support plane, or appropriate wedges with a min. pitch of 5° when the roof is completely flat to prevent water ponding on the glass.

The Glass Skylight FE Passivhaus has been certified by the Passive House Institute in Darmstadt, Germany as a "pha Advanced Component", the highest Passive House efficiency class. This skylight therefore meets the criteria for one of the most sustainable trends in contemporary construction and is suitable for the most demanding type of energy-efficient construction. The Passive House efficiency classes take into account heat loss and solar energy gain. Minimum heat loss is achieved due to the frame system design have excellent U values and low glass edge Ψ -values. In addition, the narrow frame profiles maximise solar gain.

Materials.





Constructionline

LAMILUX U.K LIMITED | Suite 1 Beacon House, Kempson Way, Bury St Edmunds, Suffolk. IP32 7AR T: 01284 749051 | E: mail@lamilux.co.uk | W: www.lamiluxskylights.co.uk | Registered in England Reg. No.: 07476237

assivhaus

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Dimensions.



Available structural roof opening sizes (mm)	Clear internal opening size (mm)				
800 x 800	620 x 620				
900 x 900	720 x 720				
900 x 1200	720 x 1020				
1000 x 1000	820 x 820				
1000 x 1500	820 x 1320				
1000 x 2000	820 x 1820				
1200 x 1200	1020 x 1020				
1500 x 1500	1320 x 1320				
1800 x 1800	1620 x 1620				

Weights.

Structural roof	Triple glazed				
opening size (mm)	400mm upstand	500mm upstand			
800 x 800	c. 64 kg	c. 69 kg			
900 x 900	c. 76 kg	c. 82 kg			
900 x 1200	c. 96 kg	c. 102 kg			
1000 x 1000	c. 91 kg	c. 97 kg			
1000 x 1500	c. 128 kg	c. 134 kg			
1000 x 2000	c. 163 kg	c. 171 kg			
1200 x 1200	c. 111 kg	c. 117 kg			
1500 x 1500	c. 156 kg	c. 165 kg			
1800 x 1800	c. 240 kg	c. 250 kg			

Upper part - framework.

The aluminium framework can be coated in any single RAL colour as standard. Optionally dual powder coating is available if different internal and external finishes are preferred.

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Upper part - glazing.

The LAMILUX FE Passivhaus offers triple glazing as standard to fulfil the highest Passive House efficiency class: phA advanced component. Further glazing options are available. Please call us to discuss specific project specification requirements if they are not included in the below table.



Туре	Glass outside (Toughened)	Spacer	Glass Centre	Spacer	Glass inside (Laminated)	Light Trans- mission	Total energy transmit- tance	Sound insulation value Rw,p	Ug- Value
Triple glazed – standard	6mm	18	4 Float	18	8mm	72%	0.51	C. 39dB	0.53 (W/m²k)
Triple glazed – Bioclean coating	6mm	18	4 Float	18	8mm	72%	0.51	C. 39dB	0.53 (W/m²k)
Triple glazed – 60/30 solar control coating	6mm	18	4 Float	18	8mm	55%	0.28	C. 39dB	0.53 (W/m²k)

Upstand.

Upstand is delivered pre-assembled to the upper part for quick and easy site installation. Standard upstand in a choice of heights: 400mm / 500mm.

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The right to make technical changes is reserved. The specified technical values may differ slightly in individual cases.





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Ventilation details.

Chain drive (concealed within covering panel)



Chain drive KSA 230V or 24V 250mm/300mm/500mm/600mm Hub Always with covering panel

Shading options.



External shading - fabric blind

Lighting options.





Hinged as standard on the short side



External shading - aluminium roller blind



Solar protection - deciduous tree effect

LAMILUX PRISM LED strip fixed on the upper upstand point Excellent design with slim LED light strips

- Flicker-free light dimming
- Extremely low heat generation of the artificial light
- Low energy consumption

LAMILUX REFLECTIVE lining on the inside of the upstand

- Increasing the light transmission up to 50% by the protected principle of the lining with high reflective aluminium reflector material
- Up to 33% saving for artificial light energy
- High quality inside optic

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Performance.

For full product performance specification available on request.

- CE marked quality according to EN 1873.
- Life Cycle Assessment (LCA) to EN 15804.
- Air permeability: Assembly to Passive House airtight with certification ≤ 0.6 @ 50Pa
- Water tightness to Class 4 according to BS EN 12208.
- Wind Load to Class C4, EN 12210.
- CWCT Class 2 Non-fragile
- Thermally broken: 12.6° isothermal line remains within the structure (see diagram)



Delivery, packing and storage.

All deliveries, unless otherwise agreed in writing, are by road transport and subject to our standard delivery terms, which are available within the document: 'Company overview and standard delivery and installation terms.' Off-loading is the responsibility of the buyer. Details of packing and safe storage are also included in this document.

Interface and fitting.

Installation service, available on request. Subject to our standard installation terms, which are available within the document: 'Company overview and standard delivery and installation terms.' Installation guide available, please contact LAMILUX UK. Flat roofing membrane or roof covering to be sealed up the upstand by others to complete the weathertight assembly. Please call to discuss contract/site specific install requirements.





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