

# LAMILUX Fire Rated Glass Skylight

## REI 30, REI 60 or REI 90.

Technical data sheet.



installation onto min. 200mm thickness fire resistance concrete - by others (**not** LAMILUX)

Fire resistance means that in the event of a fire in the building, the component creates a physical barrier that prevents both fire and smoke from escaping for a period of time. The fire test is carried out according to EN 1365-2 with flames from below according to the standard temperature-time curve. The REI 30 is designed to withstand fire and heat for at least 30 minutes, the REI 60 for 60 minutes and the REI 90 offers protection for a full 90 minutes as follows:

- load bearing capacity during the fire: see below (Letter R)
- room sealing for smoke and fire (Letter E)
- average heating of the outside below 140 k (Letter I)
- maximum heating of the outside below 180 k (Letter I)

additional load bearing capacity\*:

REI 30	REI 60	REI 90
1 kN/m <sup>2</sup>	1 kN/m <sup>2</sup>	0.75 kN/m <sup>2</sup>

The LAMILUX Glass Roof Fire Rated range of rooflights are lifesaving solutions, factory pre-assembled on a steel upstand, that prevent flames from spreading and ensure protection against fire and heat, whilst keeping escape routes clear.

\*applies to the fire resistance, not a prescribed value

## Installation suitability.

Type of construction: Bespoke fixed skylight supplied pre-assembled on a 5° steel upstand.

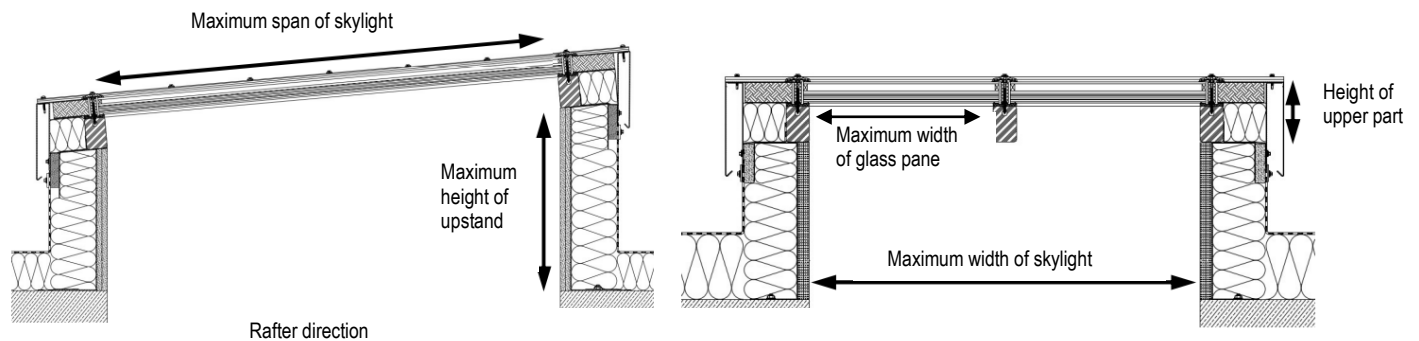
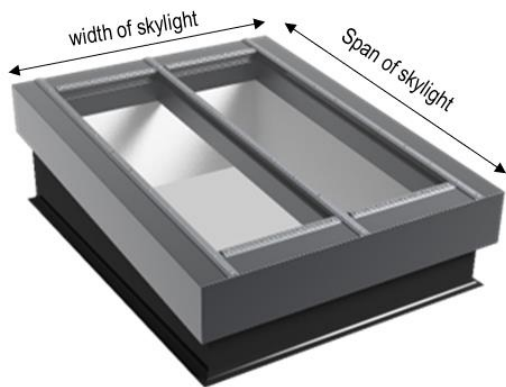
Suitable for roofs inclinations: Up to 15°

Inclination: upper part inclined at 5° as standard (certified to minimum of 2°)

Concrete deck - by others (**not** LAMILUX), must have a minimum thickness of 200mm and have the fire resistance class suitable for the fire rating rooflight class specified (i.e. R30 for REI 30, R 60 for REI 60 and R90 for REI 90.)

Roofing material made of wood or steel are not technically approved. Please contact the sales office if you would like to discuss further.

## Dimensions. installation on 200mm concrete : according to classification report.



	REI 30	REI 60	REI 90
Maximum span of skylight	2500mm		2000mm
Maximum width of skylight	2060mm		1500mm
Maximum width of glass pane	1030mm		750mm
Height of upper part – standard design	c. 165mm		c. 235mm
Maximum height of upstand	1000mm	650mm	1000mm



## Upper part - framework.

The support system is made of extruded steel profiles (thermally broken) which can be coated in any single RAL colour as standard.

## Upper part - glazing.

The LAMILUX Fire Rated Glass Skylight REI 30 offers fire resistant triple glazing as standard. REI 60 / REI 90 offers fire resistant double glazing as standard. Fire resistant triple glazing is available, and standard on REI 30 version only.

Further glazing options are available - Please call us to discuss specific project specification requirements if they are not included below.

### REI 30

Type	Glass outside Toughened	Spacer	Glass middle	Spacer	Fire protection on package	Glass inside Laminated	Light Transmission	Total energy transmittance	Sound insulation value Rw,p	Ug-Value Vertical	Ug-Value Horizontal
Triple glazed – standard	6mm	12	6mm	12	EI30	8mm	68%	0.50	43 (-3: -6)	0.7 (W/m²k)	0.9 (W/m²k)
Triple glazed – solar control coating 60/32	6mm	12	6mm	12	EI30	8mm	52%	0.30		0.7 (W/m²k)	0.9 (W/m²k)

### REI 60

Type	Glass outside (Toughened)	Spacer	Glass inside (Laminated)	Fire protection on package	Light Transmission	Total energy transmittance	Sound insulation value Rw,p	Ug-Value (Vertical)	Ug-Value (Horizontal)
Double glazed – standard	6mm	18	8mm	EI60	74%	0.59	46 (-3: -8)	1.1 (W/m²k)	1.6 (W/m²k)
Double glazed – solar control coating 60/32	6mm	18	8mm	EI60	55%	0.33		1.0 (W/m²k)	1.5 (W/m²k)

### REI 90

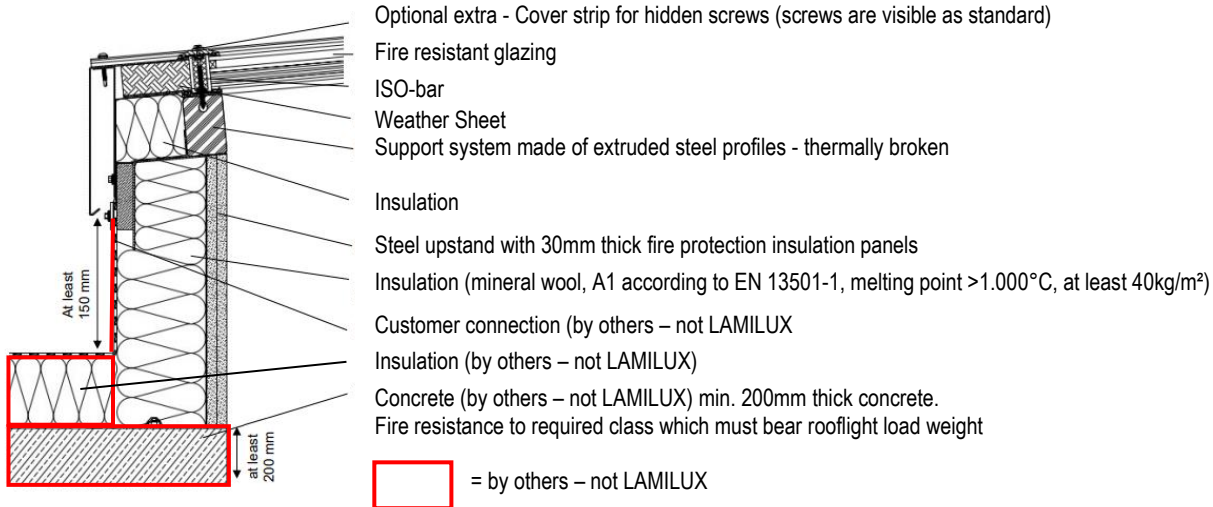
Type	Glass outside (Toughened)	Spacer	Glass inside (Laminated)	Fire protection on package	Light Transmission	Total energy transmittance	Sound insulation value Rw,p	Ug-Value (Vertical)	Ug-Value (Horizontal)
Double glazed – standard	6mm	14	8mm	EI90	71%	0.57	47 (-3: -8)	1.0 (W/m²k)	1.5 (W/m²k)
Double glazed – solar control coating 60/32	6mm	14	8mm	EI90	54%	0.33		1.0 (W/m²k)	1.5 (W/m²k)

In individual cases, an 8mm toughened safety outer pane may be required for structural reasons, which can increase the U-value minimally.

The specified thicknesses of the panes and spaces between panes represent the standard configuration and may vary. The specified technical values are determined in accordance with the applicable regulations and standards on reference test specimens and may also vary slightly in individual cases. The data can deviate by up to 5% from the mentioned values.



## Installation options.



## Performance.

For full product performance specification available on request.

- CE marked quality according to EN 14351.
- Fire resistance REI 30 / REI 60 / REI 90 according to EN13501-2
- Fire behaviour A2 according to EN13830-2003
- Air permeability AE3000 according to EN 12152.
- Water tightness RE1950 according to EN 12154.
- Wind Load 2000Pa according to EN 13116.
- Thermally broken: 10° isothermal line remains within the structure

## 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.