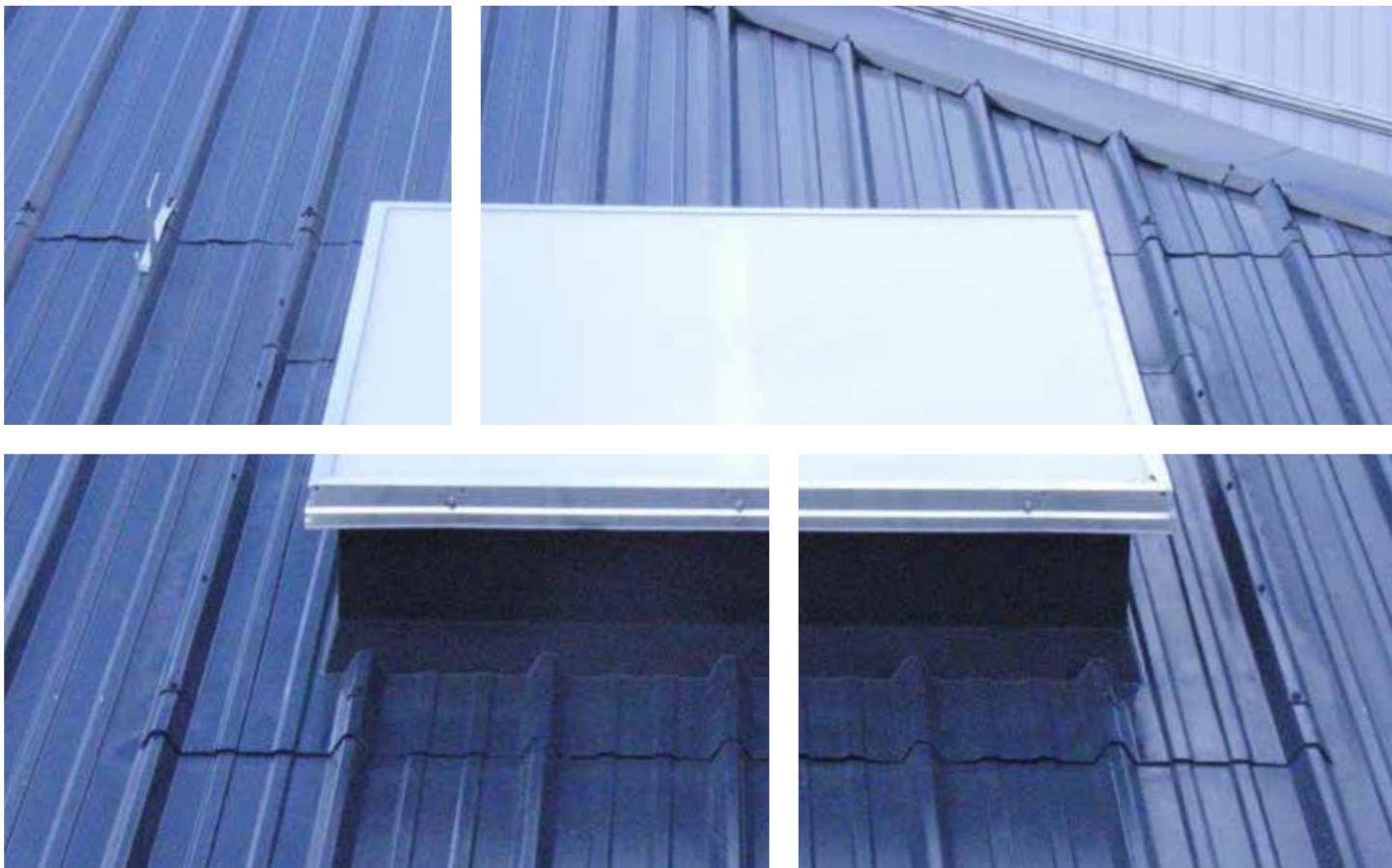




Kingspan Fixed Ecobac Data Sheet

Fixed Skylights for metal roofs with GRP base



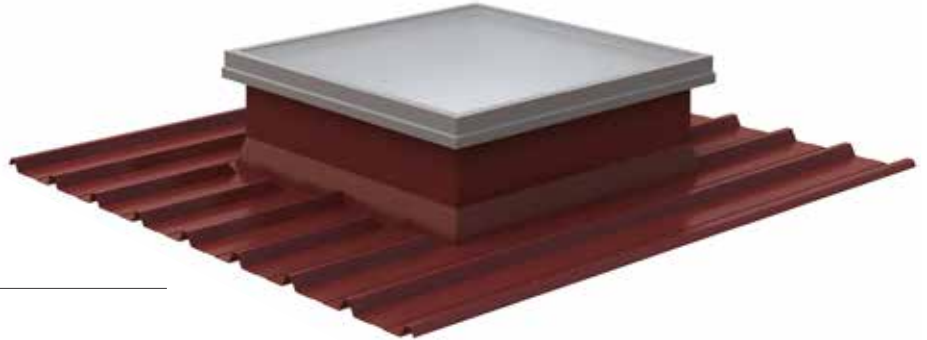
Daylighting Solutions
Natural Ventilation Solutions
Smoke Management Solutions
Service & Maintenance
Building Automation



Kingspan Fixed Ecobac

Description

The Fixed Ecobac rooflight unit is fitted for "metal roofs". This rooflight optimises the contribution of free natural daylight. Fixed Ecobac features a GRP base and a daylighting lid. Wide choice of dimensions. Contact us for more information.



Advantages

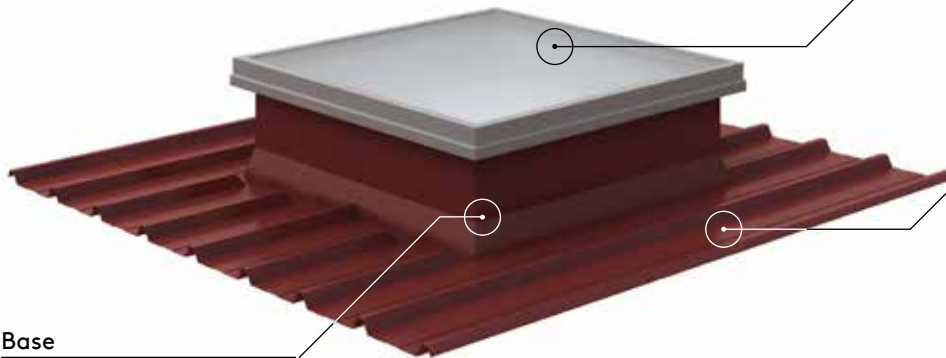
- Fixed Ecobac is the ideal solution for maximising natural daylight and improving occupant comfort.
- Fixed Ecobac is designed to "Make savings in electrical power use by improving natural lighting in buildings" as described in the RT 2012 regulations: Reduction of building's overall energy use.
- An essential solution in Industrial and Commercial Public Buildings (EPIC) : "Buildings shall be designed and disposed in order that natural daylight may be used to light areas designated as workplaces, except where the technical nature of the activities in question is not compatible with such light." (Labour Code art. R 4213-2).
- "The lighting obligation is no longer limited to enclosed spaces designated as workplaces...and lighting conditions are not only a matter of workplace safety and circulation, but also visual comfort." (circular of 11.04.1984).
- Fixed Ecobac allows light into your building, via several small light openings that are ingeniously located in the roof.

Standard description

Roof lighting will be provided by Fixed Ecobac rooflights (metal roofs) from the Kingspan Light + Air establishments: GRP base (sandwich for insulated roof decks), coloured the same colour as the roofing profile, and 10 or 16 mm thick multi-wall polycarbonate lid.



Description



The lid and glazing

Multiwall polycarbonate lid: several versions are available (see next page). It is integrated into an aluminium F frame. Fire rating: B-s1,0 (M1). Option for different types of glazing.

Gutter

At the top, it ensures effective evacuation of rainwater.

Base

The base is made of glass-reinforced polyester (GRP), coloured and can be connected to the roof profile. "Sandwich" base available for insulated steel roof decks. Different profiles are available on request.



iSO+ range

The ISO+ reinforced insulation range limits heat loss compared to a standard fixture.

Installation

Installation of the bases is defined by the applicable Unified Technical Document (D.T.U. 40.30 series) and French standards relating to the panels they are associated with in the following domains:

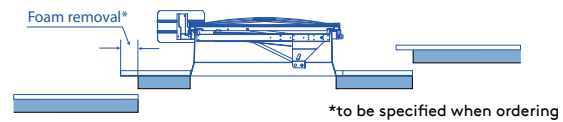
- Overlaps,
- Installation of additional waterproofing if necessary,
- The fastening method

In all cases, a steel H beam is required.

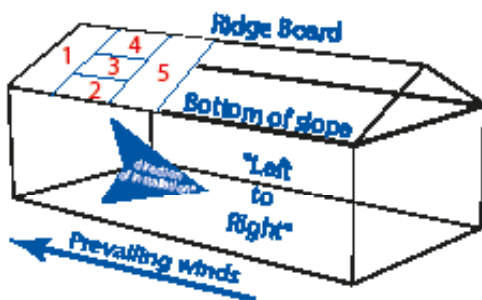
You will be sent a custom steel H beam plan:

- On request with your quote,
- Systematically when you place your order

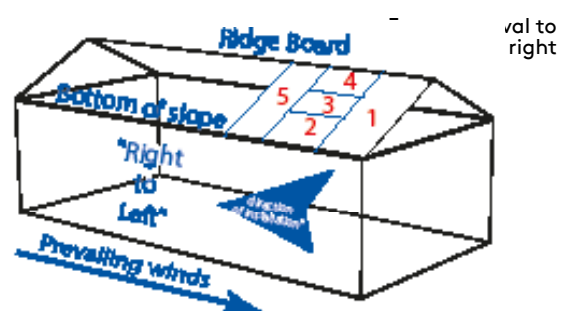
Principle for installation of "sandwich" bases:



The numbers indicate the order of assembly



ill to left



val to right

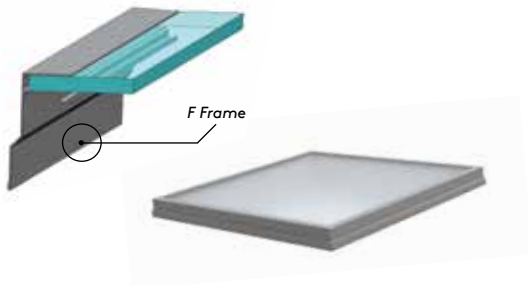
Lids

1. MWPC glazing

Our multi-wall polycarbonate proposals.
Several versions available:

Version	Thickness	Number of walls
Opalescent	10 mm	4
	16 mm	5
	16 mm	7
	32 mm	5
Translucent	10 mm	4
	16 mm	5
	16 mm	7
	32 mm	5
Heat reduction	10 mm	4
	16 mm	5
	16 mm	7
	32 mm	5
Grey opaque	10 mm	4
	16 mm	7

Other characteristics on request.



2. Polyester lid

Completely opaque lid with black interior to avoid any light reflection. It is suitable for use on sites where overhead lighting is to be avoided: cellar, chemical sites, cinemas, etc. Also for sites exposed to aggressive chemical products.

- Thickness: 25 mm.
- Light transmission: 0%.
- Thermal transmittance coefficient: $U = 0.8 \text{ W}^2.\text{K}$.



3. Aluminium lid

This lid has the best fire rating.

- Thickness: 50 mm.
- Light transmission: 0%.
- Thermal transmittance coefficient: $U = 0.8 \text{ W/m}^2.\text{K}$.
- Fire rating: A2 - s1. d0 (M0). Not combustible.



4. Sound-proofing

Insulated aluminium lid 50 mm thick. According to CSTB tests, 29dB Rw sound attenuation.

5. PMMA dome

Polymethylmethacrylate dome.

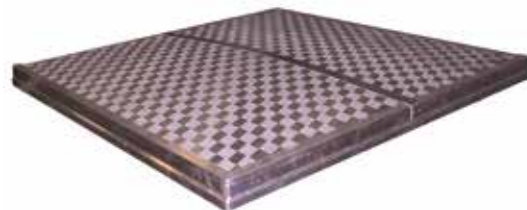
- Single or double wall.
- Fire rating: E (M4).



6. Solar protection - External Sunshade lid

The Kingspan Light + Air Sunshade lid is a sustainable, economic solution to the problem of building overheating.

It is an innovative system made of perforated aluminium, exclusively associated with the multiwall polycarbonate glazing of our skylights. CSTB testing proved that the solar heat gain factor is only 15%



7. Removable external canvas sunscreens

Made to measure tarpaulin, PVC coated for better ageing, with strengthened edges and eyelets. These screens are delivered ready to be installed, and are secured using a bungee cord threaded through the eyelets.

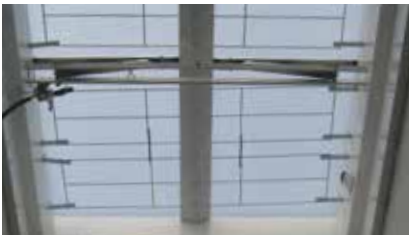




Options

1. 1200 Joule Anti-Burglary & fall-through Grid

The Kingspan Light + Air anti-burglary Grid complies with CRAM recommendations for protection of personnel working on roofs, and is in conformity with the French Labour Code. It passed the standardised test for resistance to a person tripping and falling over: dynamic 1200 Joule test.



2. Roof Access

The opening to allow access to the roof is possible with gas springs on the sides. See the Ecolux AT Roof Access datasheet.



3. Coating

Complete coating of the base according to roof profile. All RAL colours available on request.



4. Profiles available

We offer a wide range of base profiles to adapt to off-the-shelf roof deck profiles. You will find the available profiles in the "Guide to Ecobac Profiles" datasheet.



5. Reinforced thermal insulation

The ISO+ reinforced insulation range provides better airtightness and reduces heat loss through efficient MWPC glazing (16 or 32mm), an insulating seal between the lid and the kerb.

ISO+ range

6. Ventilation

Ventilation Ecobac provides natural ventilation of the premises, to improve control of energy expenditure for the building.

Available with manual or pneumatic operation.



7. Steel upstand

The Ecolux skylight type steel kerb has a notched flange to adjust perfectly to the profile of the steel roof deck, regardless of its origin. To guarantee waterproofing, the steel kerb must be positioned at the ridge on top of the roof. If it is positioned away from the ridge, specific waterproofing steel plates must be provided.



Certifications



INTERNATIONAL

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For the product offering in other markets please contact your local sales representative or visit www.kingspanlightandairinternational.com

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