



**PROVEN FOR
ENERGY EFFICIENCY**

CE 0402 - CPD - 49 79 01



Cassiopeia skylights

ACRYLIC DOME



Cassiopeia is Europe's largest CE-approved acrylic skylight. This high quality, elegant design is the ideal option for industrial, office and storage buildings needing fire and smoke ventilation. Suitable for flat roofs, it can also be placed on a roof's ridge.

Cassiopeia skylights are made entirely of inorganic materials, with multiple layers of acrylic in the domes. They are equipped with the unique patented "Safeslide" fire and smoke opening system – the market's most trusted system. In addition to emergency ventilation, Cassiopeia can also be used for everyday natural ventilation.

Cassiopeia has the lowest U-values on the market, making it more economical for the owner and user. A highly insulated upstand helps to minimize heat loss. Unlike other manufacturers, Primalux will calculate the U-values for using this skylight in your project, and show you the potential savings on your energy costs (see U-value section overleaf).

Cassiopeia's entire construction, including domes, upstands, insulation and opening systems, is completed off-site. This means you only need to crane the fully finished skylight into place on your building and fix it to your structure.

This skylight can be ordered bespoke to suit your needs. A special Deluxe version is available with hidden Safeslide systems, for a neat, clean look, suitable for modern architectural design. Cassiopeia is also available as multiple domes.

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Primalux products are made in Denmark by Primalux A/S, a European market leader in bespoke roof-light solutions. Our aim is to deliver the best value for skylights, when you compare building costs and consider the energy we save you over a five-year period. We offer you the best-insulated skylights on the market. Our products reduce the amount of insulation needed in your building project, saving you further money. Our skylights go further than simply conforming to national and European standards. We exceed quality and safety demands in U-values, strength against wind load, and effectiveness in fire and smoke resistance. Our vision is to lead the market in skylights through constant product development, and to continue providing our customers with well-designed, effective solutions.

- For roof angles 0° – 70°.
- Aluminium can be powder coated in any RAL colour
- Available with concealed Safeslide opening system
- Acrylic: clear, opaque, black (2 or 3 layer).
- Opening : Width: 1000 mm – 1900 mm.
Length: 1000 mm – 2900 mm.
Bespoke design within the limitations mentioned here.
- Accessories: Motor for everyday ventilation.
- Smoke aprons possible.
- Upstand: Frame height:
 - Upstand (timber): From 450 mm with jumps of 50 mm.
 - Frame height is measured vertical.
- Thickness of frame:
 - Timber: 9 mm plywood/45 mm insulation/9 mm plywood.
 - Low maintenance coatings: powder-coated steel plate in any RAL colour.
 - Vertical upstand: free light opening= roof opening.
 - Vaulted upstand: free light opening= roof opening minus 200 mm.



DOCUMENTATION

U-Values And Your Project

All parts of buildings release heat to the surrounding environment, with some building materials insulating better than others. Fortunately, we can calculate the amount of energy passing through different materials and compare their insulative capabilities. These calculations help us to design the most energy-efficient skylights possible.

The calculations provide what is called a U-value, which measures how much energy (in Watts) is lost to the surroundings in relation to the product's surface area and the temperature difference between outside and inside.

The U-value on a skylight is affected by a variety of influences – e.g. the size of the total surface area - and the heat lost at every join on the construction. Each time a new material is used, a calculation must be made for that specific material.

Together, these calculations enable the manufacturer to state the total and correct U-value for the specific construction.

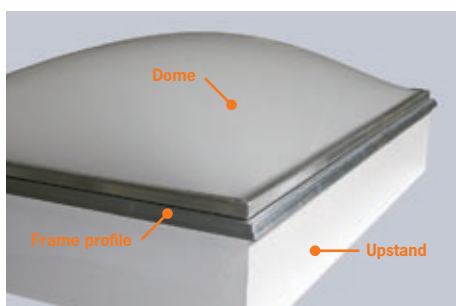
Primalux are happy to supply fully documented calculations for your specific project, thereby showing you the potential energy savings.

CE standards state that manufacturers must be able to specify the U-value on any given finished product in your project, in order for you to calculate your exact heat loss and the overall heat loss for the building.

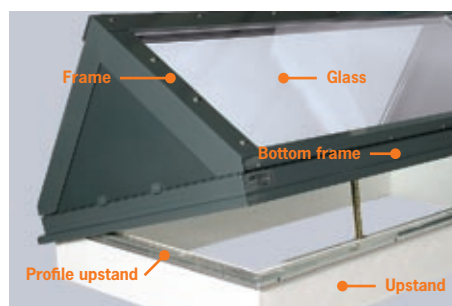
For more details on Primalux and on specific Primalux products, please contact:

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Example of where heat loss must be calculated on an acrylic dome skylight



Example of where heat loss must be calculated on a glass skylight



Thermal cross section: Less heat loss indicated by the red colour