



**PROVEN FOR
ENERGY EFFICIENCY**



Hercules Multiple Skylight

POLYCARBONATE PLANE SKYLIGHTS

This multiple skylight is made for slanted roofs, and is an ideal way to maximize daylight in the interior, and enhance your indoor environment.

A durable, elegant design, Hercules has the market's lowest U-value – approximately 20% lower than traditional skylights. Its highly insulated upstands help to minimize heat loss. These factors contribute to making it the most economical solution for new build and renovation projects.

Unlike other skylight manufacturers, Primalux will calculate the U-values for using Hercules in your specific project, and show you the potential savings on your energy costs (see U-value section overleaf).

Hercules is made from channeled polycarbonate sheets (clear or opaque). You can order it in multiple-skylight modules up to 19 metres long. Each order is constructed off-site and delivered fully finished, only needing to be craned and fixed to your building.

Hercules is suitable for double-pitched roofs or roof ridges, on a variety of buildings - schools, homes, offices and factories. It is also available as single skylights.

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.
- Polycarbonate: clear, opaque, black.
- Opening : Width: 400 mm – 2900 mm.
(Max 1900 mm for opening units).
Length: 400 mm – 19000 mm.
Bespoke design within the limitations mentioned here
Where multiple skylights are connected with adapter pieces, total light opening is the sum of light openings from every single skylight.
- Upstand: Frame height:
- Upstand (timber): From 450 mm with jumps of 50 mm.
- Frame height is measured vertically.
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.
Adapter piece outside frame:
- Min 120mm on skylights less than 17 m.
- Min 200mm on skylights longer than 17 m.
- Max length for adapter piece 1074 mm.
Vaulted upstand (timber): free light opening= roof opening minus 200 mm
- Accessories: Anti-burglary steel net.
Motor (chain and spindle) for automatic opening.
Spindle (manually with rope) for manual opening.

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.

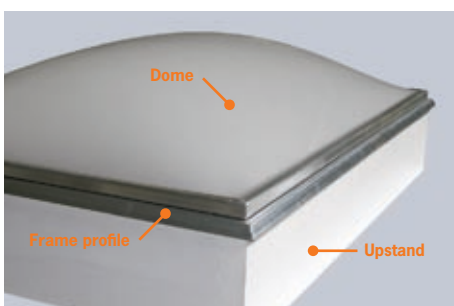
Primalux are happy to supply fully documented calculations for your specific project, thereby showing you the potential energy savings.

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.

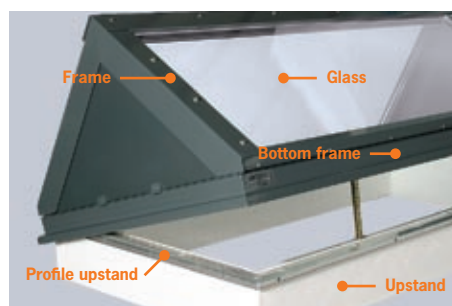
For more details on Primalux and on specific Primalux products, please contact:

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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