



# Hercules

## POLYCARBONATE PLANE SKYLIGHTS

Made for slanted roofs, this skylight is an excellent way to maximize daylight in your building interior, and improve your indoor environment.

A durable, elegant design, Hercules has the market's lowest U-value – approximately 20% lower than traditional skylights, which help to make it the most economical solution for new build and renovation projects. A highly insulated upstand helps to minimize heat loss. 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). Supplied fully finished by Primalux, it's ready to be installed and fixed to your building.

Hercules is suitable for a variety of buildings - schools, homes, offices and factories – and is available as multiple skylights.

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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.
- Polycarbonate: clear, opaque, black.
- Opening : Width: 400 mm – 2900 mm (Max 1900 mm for opening units).  
Length: 1000 mm - 5800 mm (Max 1900 mm for opening units).  
Bespoke design within the limitations mentioned here.
- Upstand: Frame height:
  - Upstand in fibreglass: 300 mm - 500 mm.
  - Upstand (timber): From 200 mm with jumps of 50 mm.
  - Frame height is measured vertically.
 Thickness of frame:
  - Fibreglass: 23 mm or 43 mm.
  - Timber: 9 mm plywood/45 mm insulation/9 mm plywood.
 Special protection for food hygiene: powder-coated steel plate in any RAL colour.  
 Vertical upstand: free light opening= roof opening.  
 Vaulted upstand (fibreglass): free light opening = roof opening minus 200 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.

FIBREGLASS UPSTAND	
Light (roof) opening, mm	Roof opening, mm
520 x 520	720 x 720
600 x 600	800 x 800
600 x 900	800 x 1100
750 x 750	950 x 950
800 x 800	1000 x 1000
850 x 850	1050 x 1050
1000 x 1000	1200 x 1200
1200 x 1200	1400 x 1400
1500 x 1500	1700 x 1700
880 x 1930	1080 x 2130
1000 x 2000	1200 x 2200
1200 x 1800	1400 x 2000
1200 x 2400	1400 x 2600
1600 x 1600	1800 x 1800
1800 x 1800	2000 x 2000

## 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.

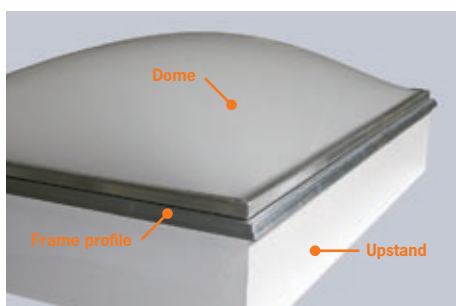
Primalux are happy to supply fully documented calculations for your specific project, thereby showing you the potential energy savings.

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.

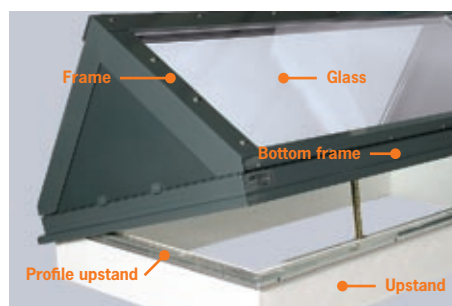
**For more details on Primalux and on specific Primalux products, please contact:**

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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