

PRIMALUX CASSIOPEIA & PRIMALUX ORION

Smoke ventilation combined with Europe's largest sky lights

Bespoke Sky lights in acrylic and polycarbonate, cost effective – and of course – maximum safety and security in the event of fire

Primalux A/S has many years of experience in developing and manufacturing roof lights. Our philosophy is simple – we want to be the most cost effective when it comes to the total, as built cost, and at the same time, achieve a better engineered solution.

We have through constant product development achieved the best insulated sky lights with minimal cold bridging and heat loss along edges and in addition a U-value 20% lower than traditional roof lights.

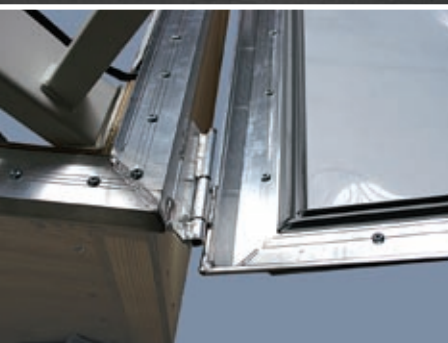
Primalux has the largest CE approved smoke ventilation daylight openings, up to 1900 x 2900 mm (vertical stand) and 2100 x 3100 mm (pitched stand). We are CE-marked up to these sizes in both acrylic (Cassiopeia) and Polycarbonate (Orion) covering all aspects of Smoke, Heat, Exhaust and Ventilation [SHEV].

With a resistance to wind loads of 3000N, a multiple open/closing function of 10,000 times and a fire function test of 100 times, Primalux are tested to achieve double the minimum market requirements.

If you look at the total heat loss from a roof construction including sky lights, it is possible to reduce the thickness of the insulation required by installing Primalux Low-E light units with a U-value of 1.8W/m²K and still achieve the overall thermal performance required.

Primalux A/S can assist you in calculating a total heat loss for your specific project in order to document the exact saving in insulation required.

Primalux has its own patented fire opening systems called SafeSlide.



ORION polycarbonate sky lights

At Primalux we not only believe our fire security systems should be effective, we also believe they should be beautiful to look at. With Orion and Orion Continuous sky lights you achieve the best design for pitched roofs and save energy at the same time.

The Orion range is produced with clear or opaque polycarbonate panels, aluminium frames and timber upstands. The standard construction is a 63mm insulated sandwich construction including an internal damp proof membrane and external ventilation.

The Orion can be mounted and fixed direct to the structural frames. It is possible to achieve a daylight opening of up to 1900mm each side of the ridge and a length according to agreement. The design provides not only a fantastic level of light but also a clean finish with no interrupting elements.



CASSIOPEIA acrylic sky lights

Cassiopeia and Cassiopeia Continuous sky lights offer a clean design to a unique quality. Combining great strength, the market's lowest U-value and a special designed discreet opening system. A combination which results in the most cost effective solution for both the owner and the contractor – without compromising the fire safety strategy.

Cassiopeia is manufactured using a 3-layer non organic acrylic and well insulated up-stands. The standard construction is a 63 mm insulated sandwich construction including an internal damp proof membrane and external ventilation. The combination of the vaulted domes and the well insulated upstand has eliminated the cold bridging normally seen in the market. The construction achieves a fire resistance much higher than U-PVC combined with fibreglass upstands.



SAFESLIDE opening system

With SafeSlide you get an aesthetic and pleasing solution to your SHEV strategy. Elegant, slim lines mounted right next to the upstand. This makes all the difference! Creates a clean look and free light flow in to the building and a smoother and safer access for the fire brigade which is vital.

SafeSlide is unique due to the installation of a powered actuator which operates at the strongest part of the opening at an angle that makes best use of leverage. This is what makes SafeSlide unique as this gives the opportunity to open very large openings under extreme circumstances, where normal opening systems would fail. SafeSlide can open up to 180 degrees in just 7 seconds – even with one tonne of snow on the dome!

Achieve great savings on the overall project costs and subsequent running costs

Low energy

The sky lights through efficient design and effective insulation eliminate cold bridging. They provide the market's lowest U-values and transmission area (surface area).

Thorough design

Primalux uses only materials of the highest quality. Our hinge system is designed so there is no break in the covering, preventing possibilities for leaks. Our opening system SafeSlide is not only the strongest but also the most discreetly placed system situated right next to the upstand. This creates full light influx and free openings.

High strength

Primalux sky lights are constructed to withstand high stress levels from above e.g. snow load or a person accidentally falling on to the dome. The design strength gives the ability to resist and work under high wind loadings. Cassiopeia for example is tested and certified to withstand 3000N/m². Stronger products are not available on the market!

CE marking and testing

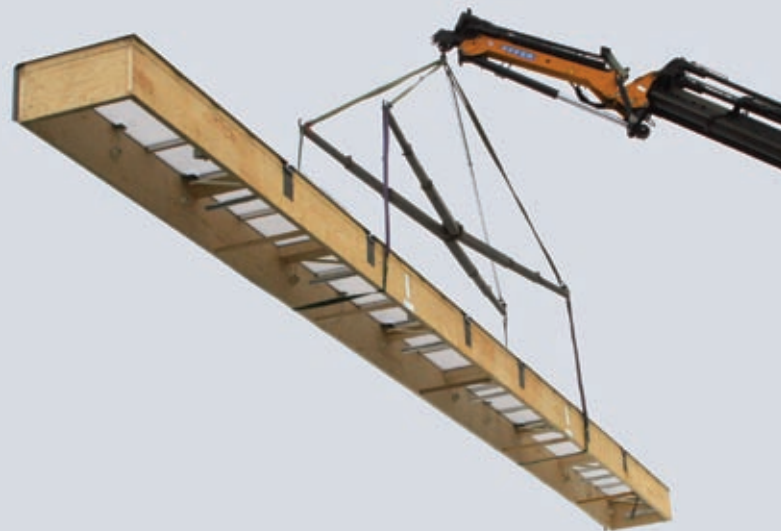
Our sky lights have undergone tests with more than 10,000 open and closing cycles and are supplied with a full CE mark certificate according to EN12101-2 which supersedes all other national regulations for smoke ventilation.

Bespoke dimensions

We manufacture our own domes. This allows you design freedom as we can deliver in sizes from 1000 x 1000 mm and up to 2100 x 3100 mm. The largest domes on the market!

Off site construction

Uniquely, Primalux deliver all sky lights as finished off site constructed products. The full construction including dome, upstand, insulation and opening systems is pre-assembled in the factory under tight quality controls. The finished products arrive at the building site ready to be lifted in. This means no risk of missing parts, or problems occurring during construction on site. All you need is lifting equipment and skilled installers which we can also provide. The roof contractor can thereafter finish the roof construction around the sky lights. High quality, low risk, efficient installation means cost savings – what more do you need.



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