

Commercial offer for the supply of skylights for cowsheds



Skylight is intended for :

- Creating optimal microclimate inside a cowshed, increasing air renewal and eliminating the formation of dead-air spaces with harmful gases;
- Increasing natural light.

Technical characteristics:

1. Wind deflector: made of thin galvanized steel, thickness - $b = 0.55 \text{ mm}$. The curved shape of the wind deflector serves to reduce the wind load on the lantern and prevents blowing into the building. Can also be ordered in the RAL color range.

***Optional!** For regional areas with strong winds and heavy snowfalls: Can be made of aluminum – $b = 1 \text{ mm}$. The reinforced material and curved shape of this wind deflector reduce the wind load and are capable of withstanding snow sliding down the slope of the lantern.

2. Stanchion: made of aluminum profile – $40 \times 60 \times 40 \times 3$.

3. Transparent panels: made of polycarbonate, $b = 10 \text{ mm}$ and density 1.7 kg/m^2 , resistant to UV radiation. Each panel is glued with:

- Special tape on the top in order to protect the upper end of the polycarbonate panel from water, snow, rain, dust and insects.
- Special tape on the bottom, performing drainage function. It allows the condensate, accumulating in the cells to pass through and promotes passive air circulation.



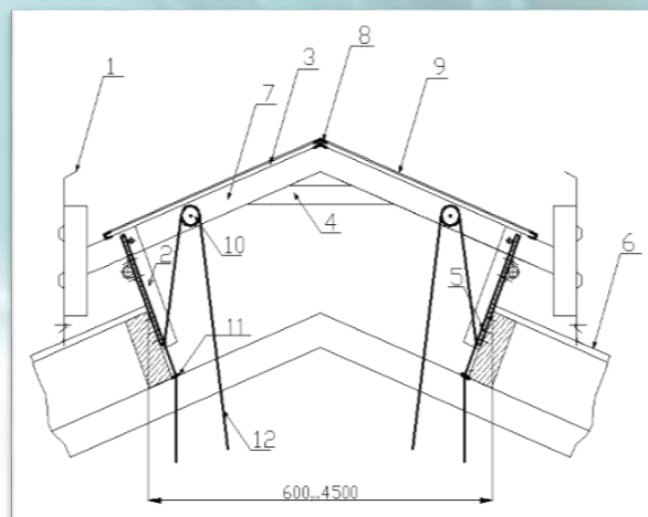


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***Optional!** For regions with extremely low temperatures, strong winds and/or heavy snowfalls, panels can be made of polycarbonate $b=16$ mm, density - 1.7 kg/m^2 , resistant to UV radiation.

4. Rafter stiffener – made of supporting aluminum profile $40 \times 60 \times 40 \times 3$.



5. Regulating valve (Optional) – made of polycarbonate, $b=10$ mm, in the aluminum end strip frame. The valve can be equipped with individual electric or manual drive.



6. Wind deflector brush, in the aluminum profile AN 5/25 – intended for hermetically sealed connection of wind protection to the roof. It prevents snow from blowing in and loss of pressure difference, which increases the efficiency of the exhaust system by at least 10%.

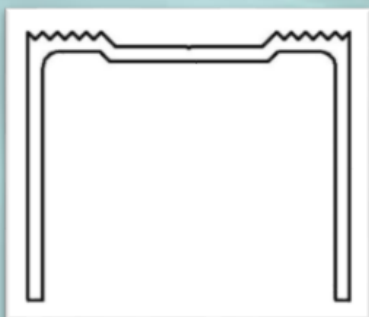


7. Roof beam – represents an aluminum profile $66 \times 55 \times 3$, installed with a pitch of 1.057 m , with additional rafter stiffeners.

The angle of the beams equals to 22.5° , providing a natural sliding down of snow under the influence of gravity from the ridge structure.

The upper shelf of the profile has a lowering in the middle part and ribbing on the sides, which provides stiffness of plates fastening to the beam and reduces the chances of leaks at the joints of the polycarbonate plates.

***Optional!** For the regions with heavy snowfalls in case of roof beams it is necessary to use pitch 0.705 m

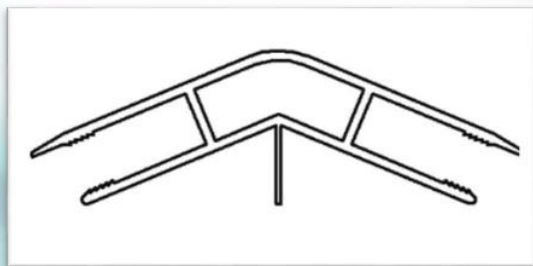




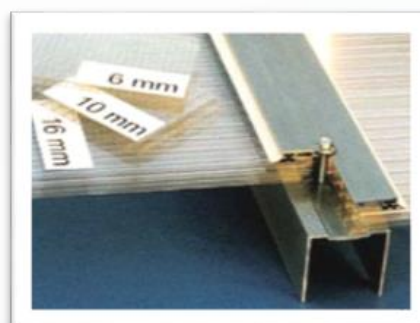
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8. Ridge – made of complex aluminum profile $b=3$ mm. The profile has a stiff box-shaped structure, which ensures the linearity of the skylight top. The toothed protrusions inside the profile ensure reliable tightness, fixation of polycarbonate plates and stability of the entire structure under wind load. The ridge provides the structure with the additional stiffness. (*When using structural panels made of polycarbonate with thickness of $b=16$ mm, the ridge must be composed of prefabricated profiles).



9. Joining strip is made of complex aluminum profile (59 mm wide), equipped with a sealing rubber gasket. Installation is carried out with consideration to the compensation of thermal expansion in the place of polycarbonate fastening joint.



10. Roll – intended for control over the opening of the ridge valves (applicable only for manual drive)

11. Aluminum end profile – ensures additional stiffness of polycarbonate.

12. Adjustment leash – intended for control over the opening of the ridge valves (applicable only for manual drive)

All fasteners are made of high-quality stainless steel, resistant to aggressive environments, which ensures reliable and long-lasting performance of the supplied equipment.

The product set includes stainless steel fasteners A2-A4, drives and other elements (German production)

