Increased yield through daylight in your livestock sheds with the

32 mm flat HeatGuard panels

from Lightroof Systems!

Flat polycarbonate is a hard, clear plastic that, in contrast to most other plastics, can withstand high temperatures. A significant benefit of our HeatGuard panels is that they are far more efficient in preventing heat loss than traditional glazing materials of comparable thickness. They are easy to use and therefore suitable for a wide range of applications.

Lightroof
Systems

Next-generation roof and wall cladding

www.lightroofsystems.com

THE SOLAR HEAT GAIN COEFFICIENT OR G VALUE

The G value or the solar heat gain coefficient plays a key role in buildings that are sensitive to overheating. The G value of polycarbonate is the ratio of the incident solar energy and the solar energy transmittance. The lower the G value, the lower the solar energy that enters the building. The difference between polycarbonate with a G value of 0.75 and a G value of 0.25 is very high. Polycarbonate with a G value of 0.25 will only allow 25% of all incident solar energy through. Overheating can be constrained by using polycarbonate with a lower G value.

STORAGE AND INSTALLATION

The flat HeatGuard panels must be stored in a shady area, and must be protected from direct sunlight and rain prior to installation. Avoid covering the panels with heat-absorbing materials and avoid contact with chemicals.
The profiles must be connected using the T profile and the multi-connection profile.
To ensure a watertight finish, the profiles must be equipped with multi-connection rubber.
Make sure you take thermal movement into account; nominal 3.5 mm per metre.

SPECIFICATIONS

Thickness	32 mm, tolerance +/- 0.5 mm
Structure	9 wall
Weight	3.6 kg/m²
Light transmittance	16%
Width	1050-mm panel width; tolerance +/- 4 mm
Length	1000 - 7000 mm long; optional to a maximum of 13,000 mm

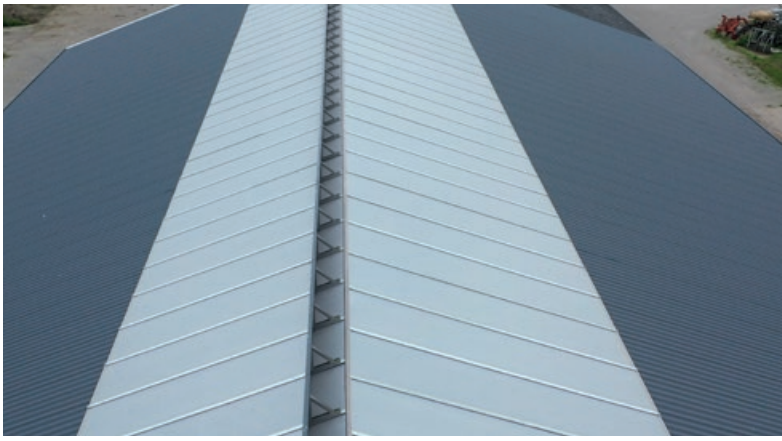
Tolerance	Length below 6 m -0 +/- 10 mm
	Length above 6 m -0 +/- 25 mm
	Width +/- 4 mm
U value	1.2 (W/m².K)
G value	0.15
RSI Value	0.83 (K.m2/W)
System Width	1075 mm (on-centre distance between aluminium profiles)

Advantages of 32 mm flat HeatGuard panels

- ☑ SOLAR-HEAT-RESISTANT/REFLECTING LIGHT PANELS (CREATES A SHADOW EFFECT INSIDE)
- ☑ EXCELLENT THERMAL INSULATION. AND THEREFORE REDUCED HEAT LOSS.
- ☑ CAN EASILY BE CONNECTED TO: CORRUGATED SHEETS, SANDWICH PANELS, ECO PANELS, ROOFING TILES, BITUMEN ROOFING, ETC.
- ☑ IMPACT AND HAIL RESISTANT
- ☑ PERFECT SEAL THROUGH MEANS OF SOPHISTICATED ALUMINIUM PROFILES WITH RUBBER SEALS
- ☑ EASY TO ASSEMBLE; CAN BE DIRECTLY MOUNTED ONTO WOOD TRUSSES
- ☑ LARGE TRUSS SPACING IS POSSIBLE; SEE SPAN TABLE (RECOMMENDED SPAN: 2000 MM)
- ☑ EXTREMELY LIGHTWEIGHT SYSTEM, APPROX. 6 KG/M².
- ☑ PROVIDES A HIGH DEGREE OF NATURAL LIGHT; OPTIMAL LIGHT DIFFUSION
- ☑ UV PROTECTION
- ☑ EXCELLENT FIRE RATING B-s1, d0
- ☑ 10-YEAR WARRANTY, IN ACCORDANCE WITH THE MANUFACTURER'S TERMS AND CONDITIONS

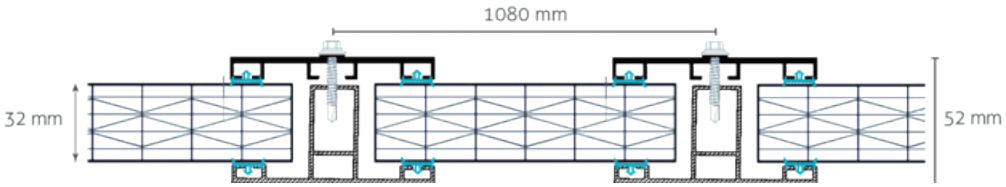


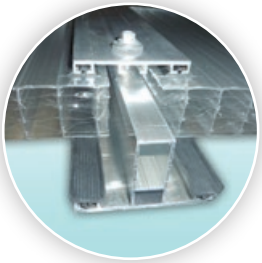
Industrial application: Wila Lochem, top view



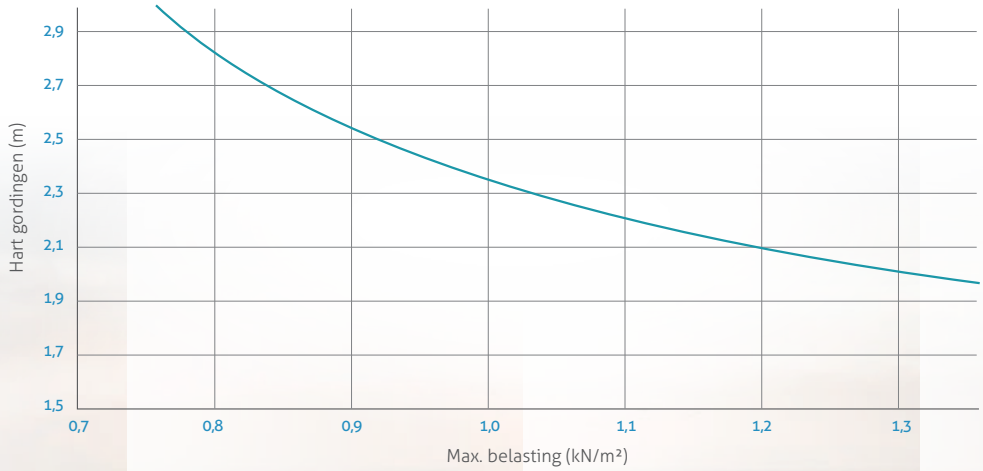
Agricultural application: Shed light ridge, top view

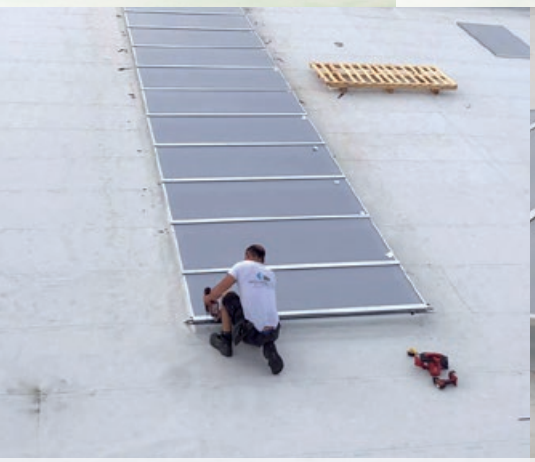
CROSS-SECTION

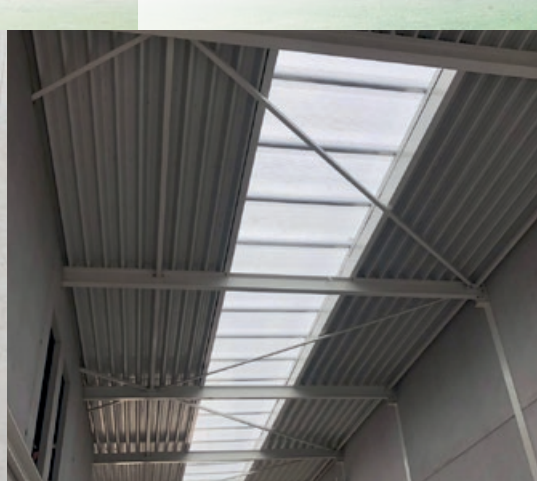




SPAN TABLE







Lightroof Systems is a supplier of daylight-transmitting, solar-heat-resistant roof and wall sheets. Our starting point has always been to listen carefully to the wishes and needs of the client, with the ultimate goal of advising you on the right roof or wall system in which quality, animal welfare and labour efficiency are paramount.

- ☑ IMPROVES ANIMAL HEALTH
- ☑ OPTIMAL ENTRY OF DAYLIGHT
- ☑ SAVES ENERGY
- ☑ IMPROVES PRODUCTIVITY
- ☑ HIGH INSULATION VALUE
- ☑ INCREASES JOB SATISFACTION

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