



Make the most of daylight with

Polycarbonate corrugated sheets

from Lightroof Systems!

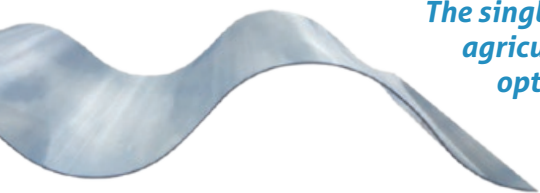


Lightroof
Systems

Next-generation roof and wall cladding

www.lightroofsystems.com

Single wall corrugated sheets



The single wall polycarbonate corrugated sheets are used in both industry and agriculture as well as in the private sector. A feature of these sheets is the optically clear light transmission and exceptional impact resistance.

Polycarbonate corrugated sheets can be used as skylight or in commercial buildings and warehouses. Natural daylight in buildings not only ensures a more pleasant and improved living environment

for livestock, it also results in considerably lower energy costs. Polycarbonate sheets can also withstand many chemicals (with the exception of solvents and lyes).

The advantages of polycarbonate corrugated sheeting:

- ✓ EXTREMELY WIDE RANGE OF APPLICATIONS
- ✓ AVAILABLE IN VARYING LENGTHS
- ✓ OUTSTANDING LIGHT TRANSMISSION
- ✓ PROVIDES FREE ENERGY FROM DAYLIGHT
- ✓ REDUCES THE BUILDING'S OPERATIONAL COSTS
- ✓ DAMAGE AND IMPACT-RESISTANT
- ✓ 200 TIMES STRONGER THAN GLASS
- ✓ HIGH OPTICAL CLARITY
- ✓ PERFORMS WELL IN EXTREME TEMPERATURES
- ✓ LIGHTWEIGHT AND EASY TO USE AND INSTALL
- ✓ UV PROTECTION
- ✓ 10-YEAR LIGHT TRANSMITTANCE WARRANTY
- ✓ EXCELLENT FIRE RATING

SPECIFICATIONS

Structure	Single wall
Colour	Clear
Thickness	1 mm
Profile	177/51 mm
Width	1100 mm
Weight	1.2 KG/m ²
Light transmission	Clear: 88%

U-value	5.7 W/m ² °C
G-value (The total value of light transmission of solar energy)	Clear: 0.84
Max. temperature	+100 °C
Min. temperature	-20 °C
Large object impact resistance	600 - 800 J/m
Thermal expansion coefficient	6.8 x 10 ⁻⁵ m/m °C

Lengths
1220 mm
1530 mm
1830 mm
2140 mm
2440 mm
2750 mm
3050 mm

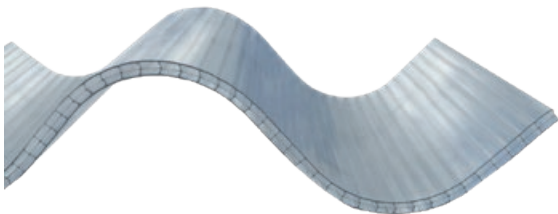


Three wall corrugated sheets

Various scientific studies demonstrate that more light in the shed (at least 180 lux) has a positive effect on the development, welfare and health of livestock. With polycarbonate light sheets you maximise the amount of free daylight entering your building. The three wall structure has high light transmission and light-diffusing properties, ensuring optimal light output and distribution in the building.

The polycarbonate corrugated sheets are a durable and high-quality product for use as skylight in agricultural and industrial buildings. A UV-protective coextrusion layer on the outside forms a barrier against the harmful effects of UV light. This minimises the long-term effect of yellowing and the mechanical properties of the sheets are retained.

The sheets come with a three-year mechanical property warranty and a ten-year light transmission warranty. The three wall structure provides excellent thermal insulation and high light transmission for very low own weight.



Three wall, Clear



Three wall, Opal

SPECIFICATIONS

Structure	Three wall
Colour	Clear/Opal
Thickness	6 mm
Profile	177/51 mm
Width	1100 mm
Weight	2.0 KG/m ²
Light transmission	Clear: 76% Opal: 51%

U-value	3.33 W/m ² °C
G-value (The total value of light transmission of solar energy)	Clear: 0.59 Opal: 0.45
Hail resistance	< 20 mm
Max. temperature	+100 °C
Min. temperature	-20 °C
Large object impact resistance	1200 J/m
Thermal expansion coefficient	6.7x10-5 m/m °C

Lengths
1220 mm
1530 mm
1830 mm
2140 mm
2440 mm
2750 mm
3050 mm





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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