

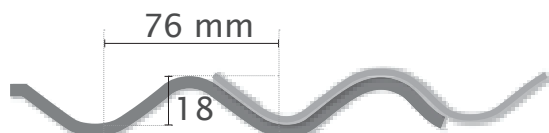


# Polycarbonate corrugated sheet Lux

**Attractive, brilliant, hailstorm resistant with double sided UV protection.**

Superior light transmission and high decorative properties.

Applications: outdoor roofing on gazebos, canopies, pergolas, carports, greenhouses  
indoor partitions walls as Interior design elements in stands, offices and shops.



Pattern	Lux 453
Profile	76/18 mm.
N° waves	14
Thickness	2,8 mm.
Width	1045 mm.
Length	from 2000 mm. to 7500 mm.
Lasting temperature	from -40 to +120 °C
Thermal expansion	0,07 mm/m °C
Light transmission clear	ca. 90%
Light transmission bronze	ca. 52%
Aging characteristics	very good - double UV Protection
Standard packaging	40 sheets
Fire performance:	Eni 13501-1 B s1d0

# Polycarbonate corrugated sheet

## Lux

### Recommended installation advices

Maximum normal distance between horizontal purling (roofing) 700 mm.

Maximum normal distance between vertical purling (cladding) 700 mm.

Overlapping: 1 wave

Roof pitch: more than  $> 10^\circ = 15,6^\circ 6$

### Wood or Metal Support construction

The support must be rigid in order to avoid a successive deformation or a sheets damaging.

The structure must be painted in light colours or be equipped with aluminium tapes to avoid heat accumulation.

You can walk on Smart Honeycomb sheets only on timber boards.

### Installation lengths

The sheet dilatation for thermal expansion is of ca. 3 mm. any linear meter, we recommend a maximum length of 4 meters. Because of this expansion the fixing holes must be bigger than the screws of 4 - 5 mm. at least.

### How to bore Lux

Use appropriate steel twist drill bit. Please, pay attention to the finishing of the holes that must be smooth.

The screws must be not too tight.

### How to cut Lux

Use an hard metal blade appropriate for cutting PC-Polycarbonate.

### How to fix Lux

We recommend to fix every third corrugation on the purling.

On the roofing, the fixing must be on the top of the wave; on the cladding the fixing must be on the bottom of the wave. Pattern must be lower side.

### Insulation

Insulation material must chemical compatible with PC-Polycarbonate.

### Cleaning

Normally the rain is enough to keep the sheets clean. You can easily clean it with a soft cloth and neutral soap or detergent. Never use chemicals or pointed tools that could damage the sheet.

## Technical Information polycarbonate corrugated Sheet Lux 453

PROPERTY	Measure Unit	Method ASMT	Method DIN	Method ISO	PC
Ultimate Tensile Strenght	MPA	638	53455	527/66	70
1% offset yield stress $\sigma_s$	%	638	53455	527/66	120
Tensile Modulus Ez	MPA	790	53457	178/75	2300
IZOD impact strength	Kj/m <sup>2</sup>	256	-	180/61	60
VICAT softening temperature B/50	°C	1525	53460	306/74	148
Heat Distortion Temperature - HDT	°C	648	53461	75	138
Density	g/cm <sup>3</sup>	792	792	1183	1,20