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Professional Products and Systems for Translucent Roof and Facade Cladding



6 Duvarlı Wall



MASTERLUX

Multiwall Polycarbonate Panel for Capped system Sandwich Panels

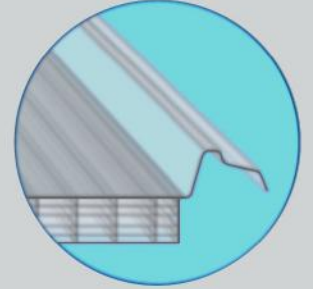
The wing forms of the Masterlux polycarbonate panels are compatible with corrugated edges on both sides of the capped-system sandwich panel on the market. Thanks to the overlap connection detail can be easily installed between the capped system sandwich panels. Thanks to this systematic solution, the different expansion rates of both products along the roof slope length are efficiently met. Masterlux pc panel system provides fast, easy and safe application without risk of water exposure. In such industrial roofs, strong ultraviolet-protected 6-walled housing structure of Masterlux panels ensure high product performance by offering to very good thermal insulation, durability and excellent natural lighting. Pc panels are produced in various thicknesses from 20 mm to 40 mm thanks to Polinet's superior manufacturing technology. In this case pc panel thickness options can be easily adapted to sandwich panels of different thicknesses and offer alternative economic solutions with the best quality / price ratio.

Application Areas

- Rooflights in combination with capped system sandwich panels
- Roof and facade cladding
- Industrial building
- Refurbishment building

Advantages of Masterlux

- Easy and fast installation
- Global system: They can be used with various capped system sandwich roof panels on the market.
- High fire resistance
- 10 years warranty
- High impact resistance
- Excellent thermal insulation
- High light transmission



The Products and Systems of Polinet

Reflect Daylight and Sky Colours Perfectly to Architectural Size

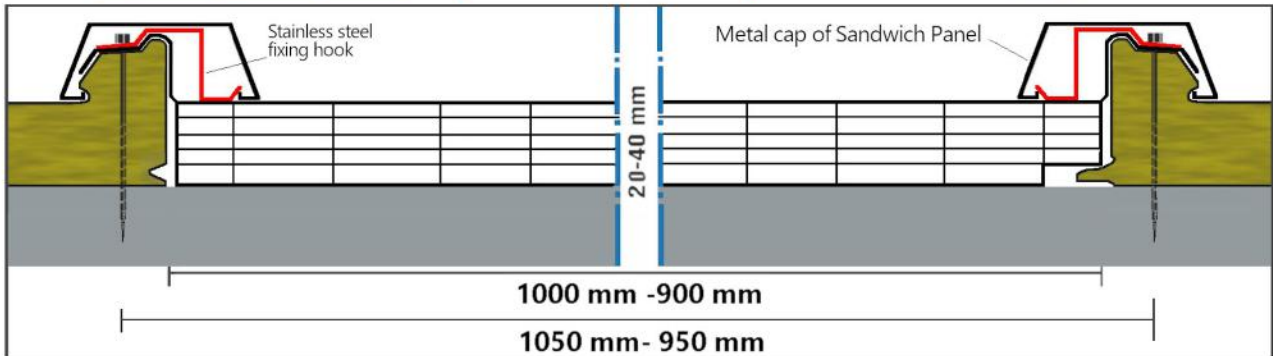
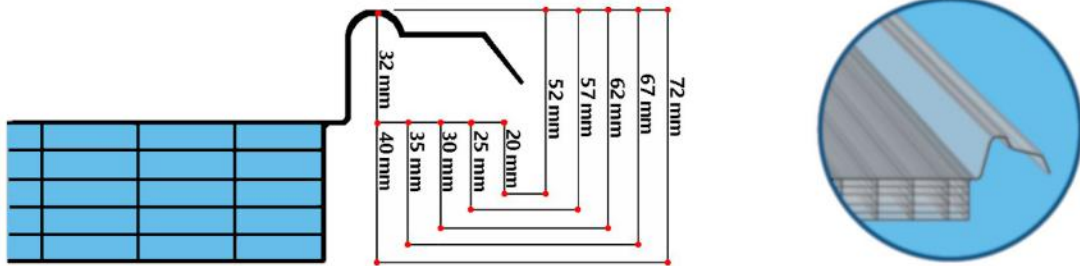


1050 mm- 950 mm

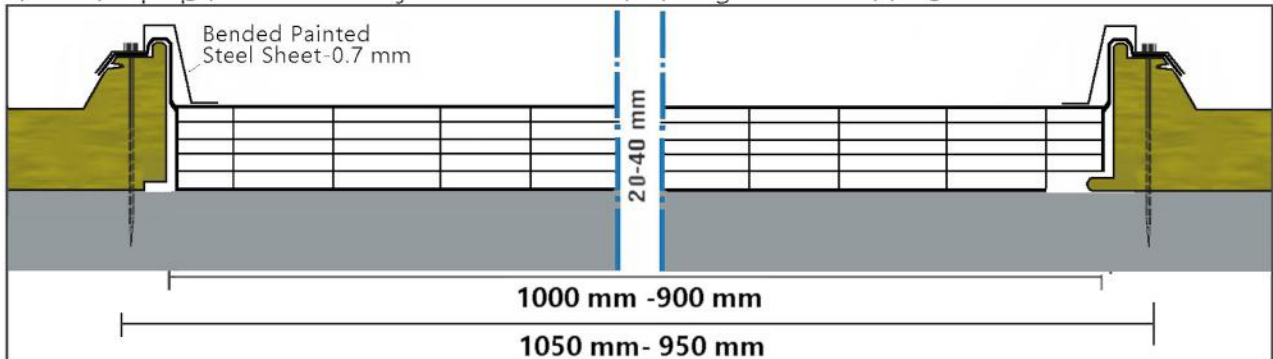


PRODUCT DATA

Thickness	20	25	30	35	40
Structure	6 Walls				
Width	body width for Masterlux-1050 =1000 mm/ body width for Masterlux-950=900 mm				
	12-10 mt or at the requested lengths				
Thermal Conductivity W/m ² °K	1,45	1,40	1,35	1,28	1,15
	Light Transmission %				
Clear	64	61	59	55	50
Opal	45	42	39	35	32



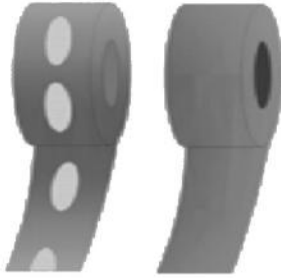
Masterlux Pc panels can be easily and safely installed by overlapping to sandwich roof panels in several thickness with cap connection type. Stainless steel fixing hooks to designed to keep metal cap of the sandwich panel like above picture should be used during installation . Special bended painted galvanized accessories (1)could be also used instead of metal cap of sandwich panel in necessary situation like following picture . The dimensions and design of the bended painted galvanized accessories could be shown difference according to various body thicknesses and wing structures of sandwich panels types on the market. In case of transportation problems due to the slope length of the roof is too long, please contact our company regarding to this subject. Because we operate a special pressing process on the ends of Masterlux pc panels for overlapping installation .



SYSTEM ACCESSORIES

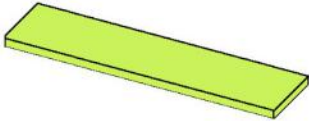
ADHESIVE TAPES

AT-70mm FAT-70 mm



Before the installation, the both open edges of panel must be closed with adhesive tape in order to prevent to enter dust into pc panels . It is recommended to seal pc panel with filter adhesive tapes because of condensation could occur inside of pc panel .Pc panels are drained and ventilated by means of filter adhesive tapes.Taping can be requested and done immediately in factory during production.

POLYTHENE SUPPORTER

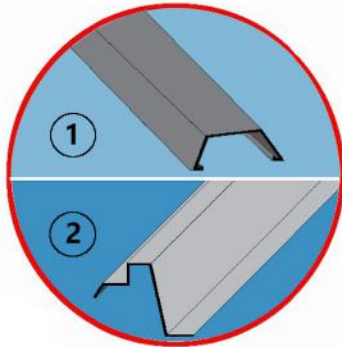


One side adhesive polythene supporters can be used by pasting on the roof purlins , in cases where need the height match of sandwich panel between polycarbonate panel.



STAINLESS STEEL HOOK

Stainless steel fixing hooks are screwed over from the wings of pc panels to purlins in order to fix pc panels and metal caps of sandwich panels



PAINTED GALVANIZED CAPS ACCESSORIES

Metal caps of the sandwich panel (1) should be used both side of pc panel& sandwich panel . Please supply them from sandwich panel producer. Special bended painted galvanized accessories (2)could be also used instead of metal cap of sandwich panel in necessary situation.



PAINTED GALVANIZE ACCESSORIES FOR GUTTER

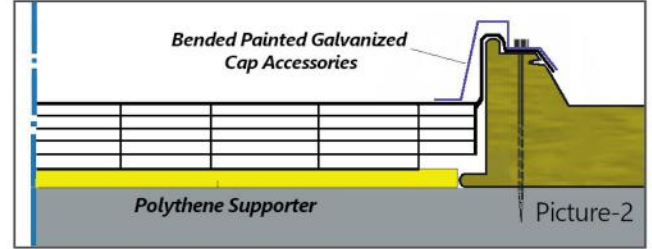
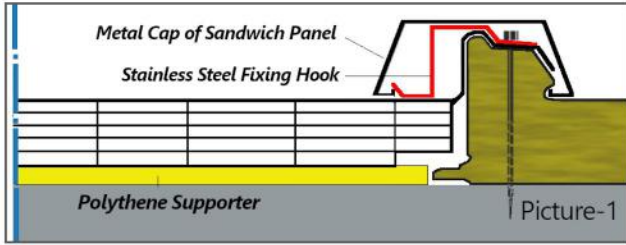
Painted galvanized accessories made by bending according to the thickness of PC panels are fixed to the gutter purlins by screwing.Pc panel edge is put into this accessories.



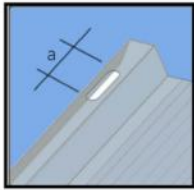
PANEL SCREWS

The screw must be chosen according to construct of purlin.

One side adhesive polythene supporters can be used by pasting on the roof purlins, in cases where need the height match of sandwich panel between polycarbonate panel



Before the installation, the both open edges of panel must be closed with adhesive tape in order to prevent to enter dust into pc panels. It is recommended to seal pc panel with filter adhesive tapes because of condensation could occur inside of pc panel. PC panels are drained and ventilated by means of filter adhesive tapes. Taping can be requested and done immediately in factory during production.



PC panels may show thermal expansion due to seasonal temperature differences depending on their lengths. This expansion of the length can be calculated according to the following formula. In this case, min 5 mm bigger hole than screw diameter must be opened on the wings of EasyLux PC Panel in order to meet the thermal expansion before installation.

$$\Delta L = \alpha \times L \times \Delta T^{\circ}$$

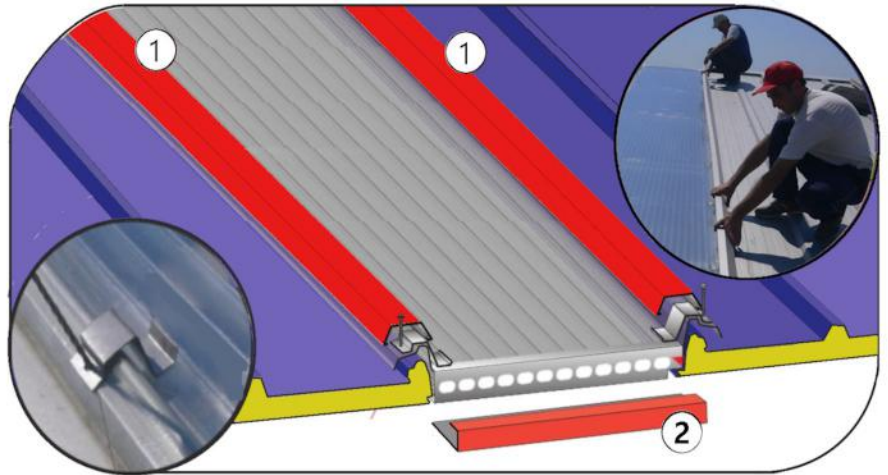
ΔL - difference of the expected length in mm

α - linear thermal expansion coefficient (0,065 mm/m °C)

L - Length of the sheet is considered in **metre** to the direction the expansion

ΔT° - difference of estimated temperature, between winter and summer climate in degrees Celsius on pc panel surface.

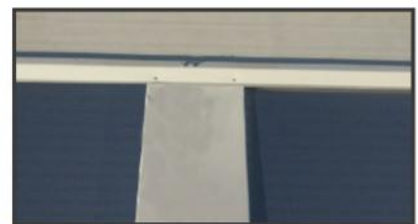
Screw the painted galvanized accessory (2) on the gutter purlin and insert Masterlux pc panel into it. If the metal cap of sandwich panel will be used, screw the stainless fixing hook to every purlin by aligning the previously opened screw holes on the pc wings according to the roof purlins distances. After that fix the metal cap to nail of stainless fixing hook like the left picture.



If painted galvanized accessory will be used instead of metal cap of sandwich panel without stainless steel, screw them to every purlin by aligning the previously opened screw holes on the pc wings according to the roof purlins distances. During installation, this accessories min 5 cm overlapping must be installed to each others along the length of the roof slope. Lastly, install the ridge painted galvanized sheet by screwing. Do not leave the protecting film on the pc panel surface. Otherwise they may not be teared out



OVERLAPPING DETAIL



EasyLux and MasterLux PC panels are installed on long distant roof slopes through a special overlap detail. The upper panel has to be produced 25 cm longer and pressed to 3 mm thickness for PC panels to overlap each other on rafters. Please notify Polinet the press operation during your order for overlapping installation.