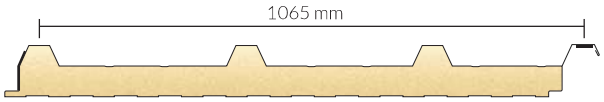
PolDeck TD

PolDeck TD is a roof sandwich panel with a rigid polyurethane foam (PU) core, fixed to the supporting structure with a fastener passing through the entire thickness of the board. PolDeck TD is a universal board and it is suitable for objects of various purposes, with roof slopes of at least 4° (7%) for continuous panels and 6° (10%) for panels joined in length, with skylights, etc.

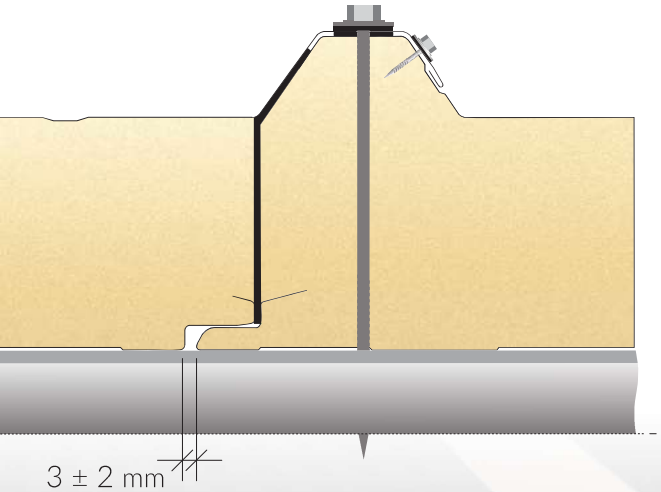
The PolDeck TD roof sandwich panel is available in the following options:

- **AGRO** – with an additional anti-condensation layer, the task of which is to absorb moisture appearing inside the building, and then release the moisture into the air in the form of water vapor;
- **OVERLAPPING** – undercutting the inner L & R lining from 50-300mm (not applicable to 40 and 60mm thicknesses).

Panel cross-section



Panel joint cross-section



Available panel thicknesses [mm]

40/75	60/95	80/115	100/135	120/155	145/180	165/200

Thermal conductivity coefficient λ_D [W/(m·K)]

0.022

Heat transfer coefficient $U_{d,s}$ [W/(m²·K)]

0.56	0.37	0.28	0.22	0.19	0.15	0.13

Weight 1 m² [kg]

10.7	11.5	12.3	13.0	13.8	14.8	15.6

Maximum number of panels per package [pcs.]

18	14	10	8	8	6	5-6

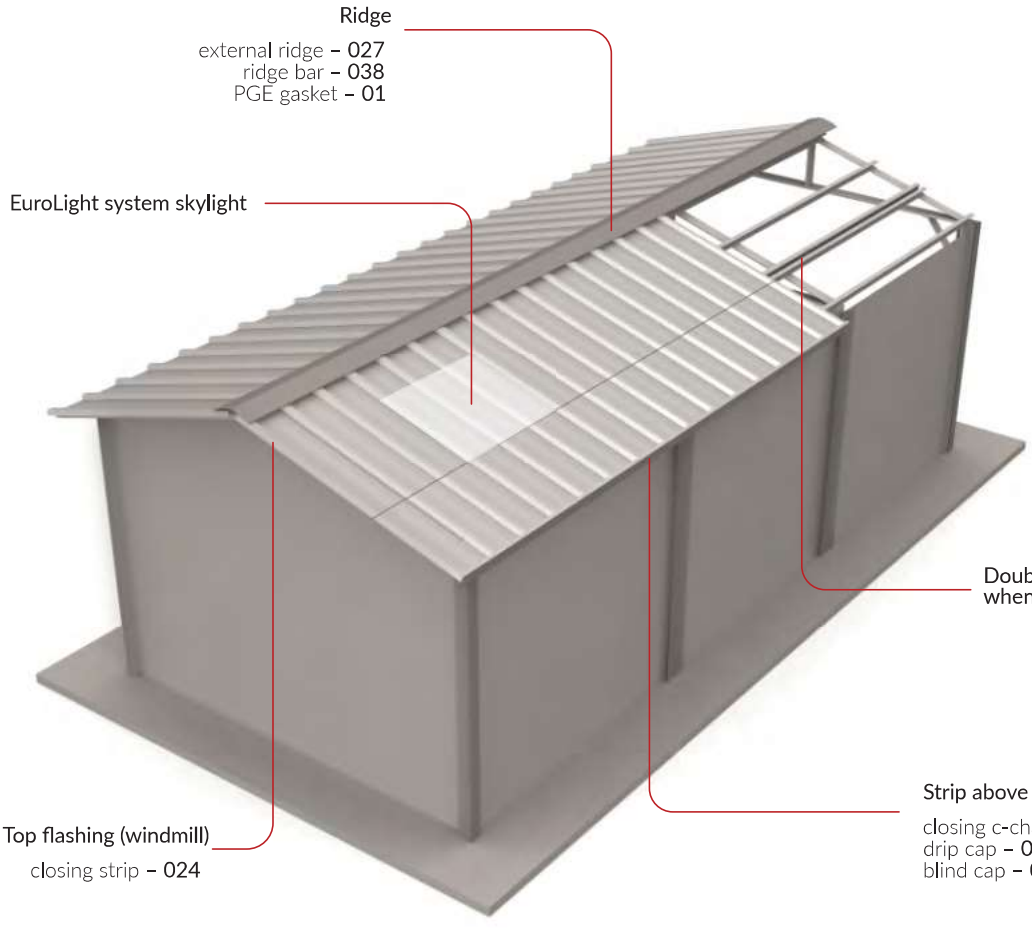
EUROPANELS

Trapezoidal-micro - TM

single module

Trapezoid - T

single module



Before you order PolDeck TD panels

It is very important to correctly measure the length of the panels to be installed in order to avoid the situation of ordering too long boards (unnecessary waste) or too short ones (which will render the assembly impossible at all in some instances). The lengths of the panels should be specified in the construction design. It can also be measured on the basis of the finished structure. The Ordering party remains responsible for performing these mearurements.

The panel thickness should be selected in accordance with the purpose of the building and expectations regarding thermal insulation. Most often, for facilities where people are expected to stay, roof panels with a heat transfer coefficient of not more than 0.15 W/m2K are used. This parameter is met by PolDeck TD 145/180 and 165/200.

The supporting structure of the roof, designed for the assembly of sandwich panels, can be made of steel, wood or reinforced concrete. For each of these types of structures, different Europanels mounting screws are offered.

Remember to keep the appropriate spacing of the purlins, their profile, length and width, in accordance with the construction design. The supporting structure is a support for panels that will transmit snow, wind and rain loads to it.

Due to the influence of sunlight and strong heating of the roof surface, it is recommended to order roof panels in white (e.g. RAL9010), as well as the use of expansion joints and joining boards in length - thus "shortening" a single section of the board. In this way, it is possible for the boards to "work" on the structure and compensate for changes in the length of the cladding.