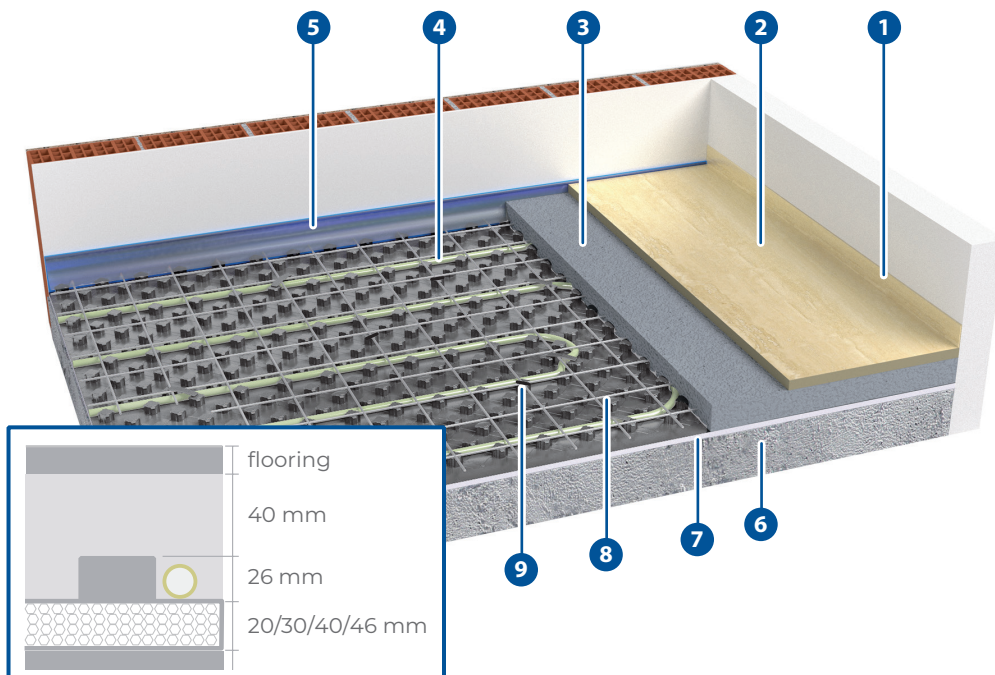


## TECHNICAL DATA SHEET



Insulating panel with reliefs made of waterproof moulded expanded polystyrene (according to UNI EN 13163), with closed-cell structure, which has high mechanical resistance. This panel is combined with a special plastic film (UNI EN 1264) in order to protect it from humidity and to improve its resistance to the deformation of the walking surface. Thermal conductivity 0,034 W/(m·K), insulating thickness 20/30/40/46 mm, equivalent total thickness 26,8/36,8/46,8/52,8 mm, thermal resistance according to UNI EN 1264:2021 0,55/0,85/1,15/1,35 (m<sup>2</sup>·K)/W. These panels have a tongue along the perimeter to connect them for proper combination. They have a moulded surface with reliefs of 26 mm, so that the cross-linked polyethylene pipes Ø17 mm can be fitted into the tabs of the panel at spacing of 5 cm or multiples.



| Base thickness | Code                 |
|----------------|----------------------|
| 20 mm          | 1600120<br>1600120CD |
| 30 mm          | 1600130<br>1600130CD |
| 40 mm          | 1600140              |
| 46 mm          | 1600146              |

- 1 Skirting board
- 2 Flooring
- 3 Screed
- 4 PE-RT Ø17/ Multilayer Ø16 mm
- 5 Edge insulation strip
- 6 Structural base + levelling
- 7 T50 Panel
- 8 Reinforcement mesh
- 9 T50 Clips

| FEATURES  | LEVEL - CLASS | PANELS (mm)   |      |      |      | UNIT                  |
|---|---------------|---------------|------|------|------|-----------------------|
|   |               | 20            | 30   | 40   | 46   |                       |
| Necessary Length  | L(3)          | 1200          |      |      |      | mm                    |
| Necessary Width   | W(3)          | 700           |      |      |      | mm                    |
| Total Thickness   | T(2)          | 46            | 56   | 66   | 72   | mm                    |
| Insulation thickness  |               | 20            | 30   | 40   | 46   | mm                    |
| Equivalent thickness  |               | 26,8          | 36,8 | 46,8 | 52,8 | mm                    |
| Compressive stress at 10% deformation   | CS(10)150     | ≥ 150         |      |      |      | kPa                   |
| Thermal conductivity  | $\lambda_D$   | 0,034         |      |      |      | W/(m·K)               |
| Thermal resistance  | $R_D$         | 0,55          | 0,85 | 1,15 | 1,35 | (m <sup>2</sup> ·K)/W |
| Water vapour resistance factor  | $\mu$ (MU)    | 30 ÷ 70       |      |      |      |                       |
| Water vapour transmission   | $\delta$      | 0,009 ÷ 0,020 |      |      |      | mg/(Pa·h·m)           |
| Long-term water absorption by total immersion   | WL(T)5        | ≤ 5           |      |      |      | %                     |
| Dimension stability 48h / 70°C  | DS(70,-)1     | 1             |      |      |      | %                     |
| Size stability 23°C / 50% R.H.  | DS(N)2        | ± 0,2         |      |      |      | %                     |
| Bending Resistance  | BS200         | 200           |      |      |      | kPa                   |
| Reaction to fire class  |               | E             |      |      |      | Euroclass             |
| <b>Declarations according to UNI EN 13163 : 2013</b>  |               |               |      |      |      |                       |
| Unique identification code of the product-type: T2-L3-W3-S2-P5-BS200-CS(10)150-DS(70,-)1-WL(T)5-MU(30-70) |               |               |      |      |      |                       |