

Betonradiant styr XPS

Radiant heating floor system with cement bonded particle boards and insulating extruded polystyrene

Beton Wood

Specification



BETONRADIANT IS A MODULAR SYSTEM FOR TRADITIONAL AND ELEVATED DRY FLOOR RADIANT HEATING SYSTEMS, FLOATING FLOORS ON LOOSE MATERIAL OR OVER HEIGHT-ADJUSTABLE SUPPORTS.

The system is made up of a cement bonded particle board on which cylinders creates the spaces intended to laying the heating pipes of the rooms. This type of panels can be used in traditional dry screeds and elevated floors on loose materials or on height-adjustable supports.

The base panel and the cylinders are made of Portland-type concrete conglomerate and high-density debarked pine wood fiber ($\delta=1350\text{kg/m}^3$) and with the following thermodynamic characteristics: coeff. of thermal conductivity $\lambda = 0.26 \text{ W / mK}$, specific heat $c = 1.88 \text{ KJ / Kg K}$, coefficient of resistance to vapor penetration $\mu = 22.6$ and reaction class to fire A2-fl-s1, according to EN 13501-1 standard. The cylinders, BetonWood type, are coupled to the base panel in the factory and have thickness ... mm, the space between one rod and the other creates the space for housing the pipes of diameter ...

mm. The base panel with a thickness of ... mm, is coupled also with an insulating panel made of extruded polystyrene (XPS). This panel is characterized by the following thermodynamic characteristics: coefficient of thermal conductivity $\lambda = 0,026 \div 0,036 \text{ W / mK}$, specific heat $c = 1,450 \text{ J / Kg K}$, coeff. of resistance to vapor penetration $\mu = 50 \div 100$. The panel is supplied already coupled with dimensions ... mm.

The wood used in the processing of cement is from forests controlled by FSC reforestation cycles and pressed with water and hydraulic binder (Portland cement) with high cold compression ratios.

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For more informations about the uses and the installation, our offices are ready to answer your questions on www.woodradiant.com