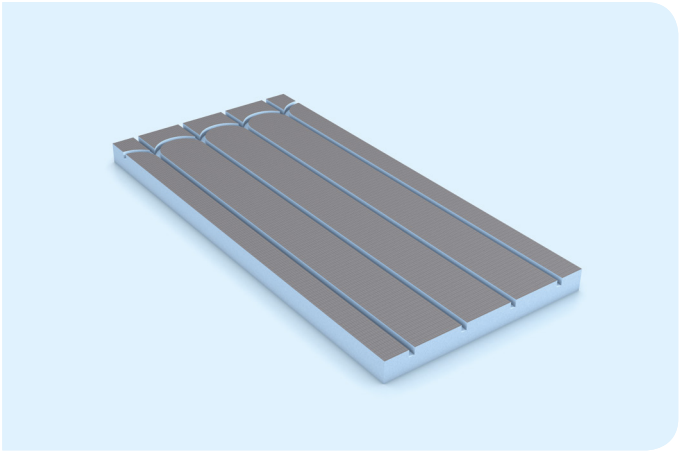
Technical data sheet

wedi PreLine

- Pre-routed wedi Building Board for use as a thermal insulation layer for hot water heating systems



General product description

wedi PreLine is a base element for hot water heating system pipes, providing excellent thermal insulation and waterproofing at the same time. Thanks to the routing that's pre-integrated in the factory, the water pipes can be quickly and safely installed in a perfect pattern. The XPS core of the product serves as thermal insulation, as well as a waterproofing layer when used in combination with the wedi system accessories.

Applications

Thanks to its special properties, wedi PreLine is very versatile and can be used in refurbishments and renovations of bathrooms, in particular it can be used as a:

- Base element for the installation of hot water heating systems with Ø16 mm pipes.
- Base element for laying tiles, slabs and natural stone floor coverings, using the thin-bed method.
- Waterproof base providing excellent moisture protection.
- Effective and reliable thermal insulation.

wedi PreLine is approved for indoor applications in rooms at normal temperatures and for floor applications in rooms with loading consistent with living spaces. Rolling loads with high point loading are not permissible.

Product properties

wedi PreLine can be fitted on almost any surface and is waterproof, heat-insulating, versatile, lightweight, and dimensionally stable and quick to install.

Surface requirements, laying

Information on the processing and surface requirements can be found in the "General Guidelines for Use of wedi building boards, wall and floor applications".

Technical properties wedi PreLine

Fire behaviour EN 13501	E
Tensile strength	0.28 N/mm²
Linear coefficient of thermal expansion	0.02 mm/mk
Maximum pipe length per element	5 m per 0.75 m²
Maximum heating circuit length	100 m (Ø16 mm pipe)

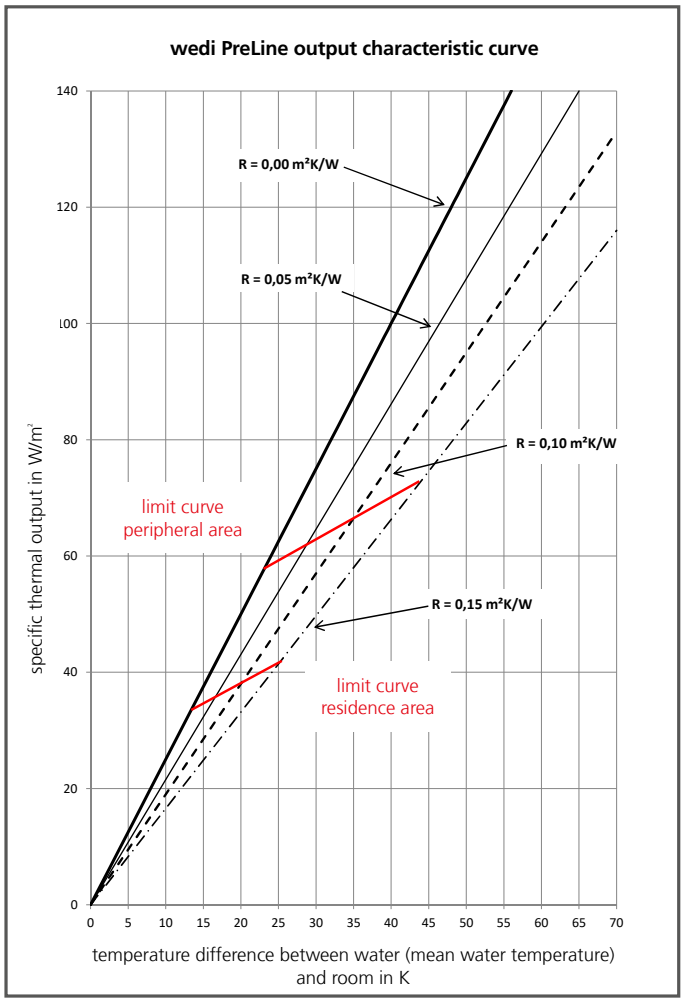
Technical properties of raw foam building board systems

CO_2-foamed, extruded polystyrene rigid foam with closed cell structure and flame-retardant additive. The polystyrene rigid foam is HCFC and CFC-free.

Long-term compressive strength (50 years) ≤ 2% compression EN 1606	0.08 N/mm²
Compressive resistance or compressive strength at 10% compression EN 826	0.25 N/mm²
Associated module of elasticity EN 826	10 – 18 N/mm²
Thermal conductivity EN 13164	0.036 W/mK
Tensile strength EN 1607	0.45 N/mm²
Shearing resistance EN 12090	0.2 N/mm²
Shear modulus EN 12090	7 N/mm²
Bulk density EN 1602	32 kg/m³
Resistance to water vapour diffusion (μ) EN 12086	100
Water absorption under long-term immersion EN 12087	≤ 1.5 % by vol.
Capillary action	0
Linear coefficient of thermal expansion	0.07 mm/mK
Temperature limits	-50 °C / +75 °C
Fire behaviour EN 13501	E
Carbon dioxide propellant GWP value	1

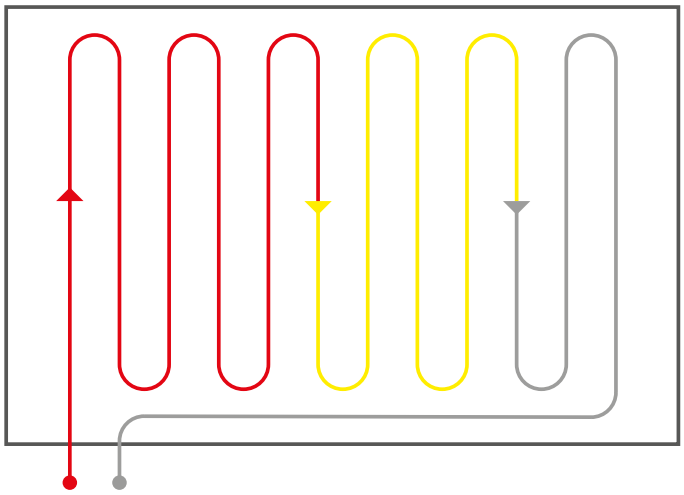
wedi PreLine heat output

Characteristic curve in accordance with DIN EN 1264



Type of pipe laying wedi PreLine

Serpentine laying



Packing

Boards on pallets

Storage

In principle, wedi PreLine should be stored flat irrespective of its thickness and must be protected against direct sunlight and moisture.

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