

TERMOFLEX® XPS UNDERFLOOR INSULATION

combined noise and thermal underfloor insulation
 from extruded polystyrene for application under laminate flooring,
 It levels unevenness up to 5 mm

Scope of use

TERMOFLEX® XPS UNDERFLOOR INSULATION is a combined noise and thermal insulation from extruded polystyrene (XPS) for application under laminate flooring. It effectively reduces the noise of walking both in the same room and in the neighbouring premises – especially in the premises of the lower storey.



The product is recommended for floor without in-floor heating. Its thickness and its excellent thermal insulation characteristics reduce the thermal losses and guarantee a warm floor. This is the reason why the underfloor insulation is not recommended for floors with in-floor heating.

TERMOFLEX® XPS UNDERFLOOR INSULATION is highly stable, pressure resistant and it prevents the damages in the connections between the laminated parquet in the places with higher point load. The underfloor insulation allows levelling of unevenness in the floor up to 5 mm. The product is suitable for assembly on floor with high pressure and on premises with high people's turnout.

Properties

- improves the stability and the pressure resistance
- suitable for assembly on floor with high pressure and on premises with high people's turnout
- improves the comfort when walking
- excellent thermal insulation properties
- reduces the noise of the steps in the room (with 5,5 – 6 dB) as well as in the premises on the lower storey (with 17 – 32 dB)
- levels unevenness up to 5 mm
- high resistance and stability with point loads on the floor
- fast and easy assembly

Composition

Thermal insulation boards from extruded polystyrene granules.

Packaging and Indicative consumption

Package:

Package 5 m²

Indicative consumption:

1 m²/m²

Sizes:

Length: 1000 mm

Width: 500 mm

Thickness: 3; 5; 6 mm

Expiration date and Storage

Store in a dry and cool place with temperatures between +5°C and +30°C, at a minimum distance of 1,5 m from heating objects.

Do not leave under direct sun light and sources of UV rays!

Keep away from sources of heat, moisture and mechanical damages!

The product is good for use 24 months after production date of an unopened original packaging.

Instructions for Use

Base Preparation

The surface on which the underfloor insulation will be applied should be even, dry and very well cleaned with a vacuum cleaner from small stones, dust and other leftovers. When working on a newly-applied plasters, the surface must be completely dry in order not to damage the base. The humidity of the surface must not surpass 3%.

Application

Before the application of the laminate or the parquet on mineral bases, in order to protect the surface from the moisture it is necessary to apply proper vapour and hydro insulation (polyethylene foil with thickness 0,2 mm). The stripes of the foil should overlap at least 20 cm and they should be taped both to each other and to the wall (apx. 2 cm).

When working on wooden bases do not apply foil or another type of vapour barrier.



The noise and thermal underfloor insulation should be applied in rows in the same direction which will be chosen for the application of the laminate/ parquet. A gap around 2 mm should be left between the separate boards. Avoid placing the overlaps of the underfloor insulation and the laminate/ parquet at the same spot. Between the underfloor insulation and walls, columns, thresholds, etc. Leave 1cm gap to the walls, door-sills, columns, etc. to cover the temperature extensions.

Do not step on the underfloor insulation in order not the damage its surface.

Hazard description:

Does not contain dangerous chemical substances! Does not contain (F)CKW / HFCKW!

Hazard symbol:

Not subject of the identification regulations.

Technical data

Parameter	Measure	Testing method	Testing result
Thermal conductivity at 10°C (λ)	W/(mK)	EN 12667	0,022
Thermal resistance	(m ² K)/W	EN 12939	0,273
Compressive stress at 10% deformation	kPa	EN 826	400
Long-term water absorption by total immersion, 7d	обемни %	EN 12087	0,20
Long-term water absorption by partial immersion, 48h	kg/m ²	EN 1609	0,060
Vapour diffusion resistance coefficient (μ)	-	EN 1745	250
Reduction of noise of steps in the premises	dB	IHD 431	5,5-6,0
Reduction of noise of steps in the neighboring premises	dB	ISO 140/717	17-32
Reaction to fire	-	EN 13501	E (Euro class)

The information contained in the current document is based on our knowledge and recent technical achievements and experience that we have at the time of the last version. The technical recommendations concerning application that we offer in order to facilitate buyers and those working with our products are non-binding and are neither grounds for legal contract relations, nor for additional obligations resulting from the purchase contract. They do not dispense buyers from the necessity to verify products' application according to the instructions for every specific use. We as manufacturers guarantee the quality of the product, but cannot influence the circumstances and methods of its use. Application of the product should be performed by qualified personnel.