TERMOFOL

Operating/assembly instructions

XPS Termofol insulation board



The 6 mm XPS insulation board serves as a thermal and insulating layer under heating mats in electric underfloor heating systems. It reduces heat loss downwards and improves the efficiency of the system.

Technical specifications

- Thickness: 6 /12/20/30mm
- Thermal conductivity coefficient = 0.033 W/(m·K)
  Density: approx. 32 kg/m^3
- Fire resistance class: E
- Compressive strength: min. 300 kPa at 10% deformation
- Water absorption (48 h): < 0.2%
- Impact sound reduction: dLw = 21

1. Preparing the substrate

- The substrate (concrete, OSB board, screed) should be clean, even, free of dust, loose particles and moisture.
- Removal of bulges and unevenness greater than several millimetres.
- Checking the load-bearing capacity of the substrate – the panel does not replace the structure, only the insulation.

2. Laying insulation boards

- Start from the furthest corner of the room.
- Lay the slabs with a half-offset (with a wedge) – the edges should not overlap linearly to avoid thermal bridges.
- Secure the boards with fibreglass mesh (approx. 5 cm wide) embedded in flexible adhesive.
- The board should adhere to the entire surface of the substrate – use flexible adhesive applied with a notched trowel (so that the entire surface is adhered).

3. Installation of heating elements

- Heating mats can be laid on top of the XPS boards.
- Use flexible adhesive also in the layer connecting the board and the mat.
- After laying the mat and making the electrical connections, cover with a layer of underlay or levelling compound (e.g. flexible mortar), in accordance with the underfloor heating manufacturer's requirements.

4. Control and security

- Check that the board is not misaligned or uneven.
- Ensure that the mesh threads are evenly embedded and well glued.
- Avoid mechanical damage during further renovation work – XPS boards can be delicate when using sharp tools.

5. Safety and maintenance

- Protect the slabs laid on the floor from damage caused by dropping sharp tools or heavy objects, as these may damage the slabs.
- Store discs in a dry place, protecting them from sunlight and moisture.
- When transporting and cutting, use tools with sharp edges (e.g., a utility knife or a fine-toothed saw).

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