

Isover TDPT

Mineral fibreglass insulation



TECHNICAL SPECIFICATION

Insulation slabs made of Isover fibreglass wool. The production is based on defibration of melt of glass and other additives and ingredients. Produced mineral fibres are then shaped into slabs on the production line. The entire fibre surface is hydrophobic. Slabs in construction have to be protected suitably (steam protection foil, other layers of floor construction).



APPLICATION

Precisely cut slabs used in light and heavy floating. There are high quality demands in case of underlay surface of the dry floating floors on which the precise cut slabs are laid. Thanks to its high accuracy and minimum compressibility these slabs are applicable even in the thin anhydrite floors. Maximum imposed load for this insulation is 5 kN/m².

PACKAGING, TRANSPORT, WAREHOUSING

Isover TDPT slabs are packaged into PE foil. They have to be transported in covered vehicles under conditions preventing them from getting wet or being degraded. They are stored in covered spaces.

BENEFITS

- Very good thermal insulation performance.
- Excellent acoustic properties in terms of noise absorption.
- Low vapour resistance – good water vapour penetrability.
- Environmentally friendly and hygienic.
- Completely hydrophobic.
- Long life span.
- Resistant to wood-destroying pests, rodents, and insects.
- Easy workability – can be cut, drilled into, etc.

DIMENSIONS AND PACKAGING

| Thickness [mm] | Length × width [mm] | Volume per package | | Quantity per pallet [m ²] | Declared thermal resistance R _D [m ² ·K·W ⁻¹] |
|-------------------|------------------------|--------------------|-------------------|--|--|
| | | [m ²] | [m ³] | | |
| 15 | 1 200 × 600 | 11.52 | 0.17 | 230.40 | 0.45 |
| 20 | 1 200 × 600 | 8.64 | 0.17 | 172.80 | 0.60 |
| 30 | 1 200 × 600 | 5.76 | 0.17 | 115.20 | 0.90 |
| 35 | 1 200 × 600 | 5.04 | 0.18 | 100.80 | 1.05 |
| 50 | 1 200 × 600 | 3.60 | 0.18 | 72.00 | 1.50 |

TECHNICAL PARAMETERS

| Parameter | Unit | Methodology | Value | Designation code | |
|---|--|--|--|--|-----|
| Geometric shape | | | | | |
| Length <i>l</i> | [% , mm] | EN 822 | ±2 % | | |
| Width <i>b</i> | [% , mm] | EN 822 | ±1,5 % | | |
| Thickness <i>d</i> | [% , mm] | EN 823 | 0 mm and +10 % or +2 mm ¹⁾ | Class of thickness tolerances | T7 |
| Deviation from squareness of the edge on length and width <i>S_e</i> | [mm·m ⁻¹] | EN 824 | 5 | | |
| Deviation from flatness <i>S_{max}</i> | [mm] | EN 825 | 6 | | |
| Thermal technical properties | | | | | |
| Declared value of thermal conductivity coefficient $\lambda_p^{2)}$ | [W·m ⁻¹ ·K ⁻¹] | Declaration according to EN 13162+A1 Measurement according to EN 12667 | 0.033 | | |
| Design thermal conductivity $\lambda_p^{3)}$ | [W·m ⁻¹ ·K ⁻¹] | ČSN 73 0540-3 | 0.035 | | |
| Specific heat capacity <i>c_d</i> | [J·kg ⁻¹ ·K ⁻¹] | ČSN 73 0540-3 | 840 | | |
| Mechanical properties | | | | | |
| Compressibility <i>c</i> | [mm] | Declaration according to EN 13162+A1 Measurement according to ČSN 12431 | ≤ 2 | Declared level for compressibility Declared level of tensile strength perpendicular to faces | CP2 |

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TECHNICAL PARAMETERS

| Parameter | Unit | Methodology | Value | Designation code | | | |
|--|-----------------------|---|------------------------------------|--|----|----|----|
| Hydrothermal properties | | | | | | | |
| Water vapour diffusion resistance factor μ | [-] | Declaration according to EN 13162+A1 Measurement according to EN 12086 | 1 | Declared value for water vapour diffusion resistance factor MU1 | | | |
| Fire safety properties | | | | | | | |
| Reaction to fire class | [-] | Declaration according to EN 13501-1+A1 | A2, s1, d0 | | | | |
| Maximum temperature for use | [°C] | | 200 | | | | |
| Melting temperature t_f | [°C] | DIN 4102 part 17 | < 1000 | | | | |
| Acoustic properties⁴⁾ | | | | | | | |
| Dynamic stiffness s' | [mm] | Declaration according to EN 13162+A1 | Declared value of dynamic rigidity | | | | |
| | [MN·m ⁻³] | Measurement according to ČSN ISO 9052-1 (idt. EN 29052-1) | 15 | 20 | 30 | 35 | 50 |
| | | | 16 | 14 | 10 | 9 | 8 |
| Other properties | | | | | | | |
| Density | [kg·m ⁻³] | EN 1602 | 97-106 | | | | |

¹⁾ Value with greatest numerical tolerance.

²⁾ Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.

³⁾ Valid for typical use in construction with risk of condensation. In the case of construction without any risk of condensation, it is possible to use the declared value of thermal conductivity.

⁴⁾ Informative non-declared value beyond the scope of CPR, obtained by specific tests.

RELATED DOCUMENTS

- Declaration of Performance CZ0001-011
- Environmental Product Declaration
- ISO 9001, ISO 14001

More about the product

www.isover.cz/en/products/isover-tdpt



10/1/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.