

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.

DIMENSIONS AND PACKAGING

| Thickness [mm] | 15 | 20 | 30 | 35 | 50 |
|---|------------|--------|--------|--------|-------|
| Length x width [mm] | 1200 x 600 | | | | |
| Volume per package [m ³] | 11.52 | 8.64 | 5.76 | 5.04 | 3.60 |
| Quantity per palette [m ²] | 230.40 | 172.80 | 115.20 | 100.80 | 72.00 |
| Declared thermal resistance R ₀ [m ² ·K·W ⁻¹] | 0.45 | 0.60 | 0.90 | 1.05 | 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 S _b | [mm·m ⁻¹] | EN 824 | 5 | | | | |
| Deviation from flatness S _{max} | [mm] | EN 825 | 6 | | | | |
| Thermal technical properties | | | | | | | |
| Declared value of the thermal conductivity coefficient λ _p ²⁾ | [W·m ⁻¹ ·K ⁻¹] | Declaration according to EN 13162+A1 Measurement according to EN 12667 | 0.033 | | | | |
| Design thermal conductivity λ _e ³⁾ | [W·m ⁻¹ ·K ⁻¹] | ČSN 73 0540-3 | 0.040 | | | | |
| Specific heat capacity c _p | [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 | | | |
| Compressive stress at 10 % deformation σ ₁₀ | [kPa] | Declaration according to EN 826 | 40 | Declared level of compressive stress at 10% deformation CS(10)40 | | | |
| The point load at a given deformationi F _p | [N] | Declaration according to EN 12430 | 400 | Declared level of point load for 5 mm deformation PL(5)400 | | | |
| 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 | | | | |
| Maximum temperature for use | [°C] | | 200 | | | | |
| Melting temperature t _t | [°C] | DIN 4102 part 17 | < 1000 | | | | |
| Other properties | | | | | | | |
| Density | [kg·m ⁻³] | EN 1602 | 137-147 | | | | |
| Acoustic properties⁴⁾ | | | | | | | |
| Dynamic stiffness s' | | Declaration according to EN 13162+A1 | Declared value of dynamic rigidity | | | | SD |
| | [mm] | | 15 | 20 | 30 | 35 | 50 |
| | [MN·m ⁻³] | Measurement according to ČSN ISO 9052-1 (idt. EN 29052-1) | 16 | 14 | 10 | 9 | 8 |

¹⁾ Whichever gives the greatest numerical tolerance.

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

³⁾ It is 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 scope of CPR, obtained by concrete tests.

RELATED DOCUMENTS

- Declaration of Performance CZ0001-011
- Environmental Product Declaration
- Certificate of constancy of performance 1390-CPR-305/11/P
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

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