ISOVER SAINT-GOBAIN
Assurance in insulation

**Specification code:** MW-EN 13 162-T3-MU1-AF,11
**Identification code of the product-type:** Akustic-Innenwand Version-004
**SVT code:** 7785

# ISOVER Akustic SSP 2

## 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. Fibres are made water-repellent on their entire surface. Slabs in construction have to be protected suitably (covered with perforated material, other layers of construction).

## APPLICATION

ISOVER Akustic SSP 2 slabs are suitable for any thermal, acoustic, no-load insulation. Black glass non-woven fabric is attached to one side. The slabs are used especially as absorbing insertion in lining elements for acoustic walls, ceilings, false ceilings, and thermal and acoustic insulation of air-conditioning devices. They are suitable for airflow not exceeding 30 m/s. Fibers are made water-repellent on their entire surface.

## PACKAGING, TRANSPORT, WAREHOUSING

IISOVER Akustic SSP 2 slabs are packaged into PE foil. Slabs have to be transported in covered vehicles under conditions preventing them from getting wet or being degraded. The products are stored indoors or outdoors depending on the conditions specified in the current ISOVER price list.

## BENEFITS

- fire-resistant
- 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 insect
- easy workability - can be cut, drilled into, etc.
- dimensional stability during temperature change



## DIMENSIONS AND PACKAGING

| | | | | | |
|---|---|---|---|---|---|
| **Thickness** | [mm] | 20 | 30 | 40 | 50 |
| **Length × width** | [mm] | 1250 × 600 | | | |
| **Volume per package** | [pcs] | 24 | 16 | 12 | 10 |
| | [m²] | 18.00 | 12.00 | 9.00 | 7.50 |
| | [m³] | 0.36 | 0.36 | 0.36 | 0.38 |
| **Quantity per palette** | [m²] | 288 | 192 | 144 | 120 |
| **Declared thermal resistance $R_D$** | [m²·K·W⁻¹] | 0.55 | 0.85 | 1.15 | 1.45 |

* It is necessary to consult with the producer for the terms of delivery.

## TECHNICAL PARAMETERS

| Parameter | Unit | Methodology | Value | Designation code | |
|---|---|---|---|---|---|
| Geometric shape | | | | | |
| **Length *l*** | [%, mm] | EN 822 | ±2 % | | |
| **Width *b*** | [%, mm] | EN 822 | ±1.5 % | | |
| **Thickness *d*** | [%, mm] | EN 823 | -3 % or -3 mm[1] and +10 % or 10 mm[2] | Class of thickness tolerances | T3 |
| **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 | | |
| **Relative change in length $\Delta\varepsilon_l$, in width $\Delta\varepsilon_b$, in thickness $\Delta\varepsilon_d$** | [%] | EN 1604 | 1 | Dimensional stability under the specified temperature and humidity conditions | DS (23,90) |
| Thermal technical properties | | | | | |
| **Declared value of the thermal conductivity coefficient $\lambda_D$[3]** | [W·m⁻¹·K⁻¹] | Declaration according to EN 13162+A1 | 0.034 | | |
| | | Measurement according to EN 12667 | | | |
| **Design thermal conductivity $\lambda_u$[4]** | [W·m⁻¹·K⁻¹] | ČSN 73 0540-3 | 0.036 | | |
| **Specific heat capacity $c_d$** | [J·kg⁻¹·K⁻¹] | ČSN EN ISO 10456 | 1030 | | |
| Fire safety properties | | | | | |
| **Reaction to fire class** | [-] | Declaration according to EN 13501-1+A1 | A1 | | |
| **Maximum temperature for use** | [°C] | | 150 | | |
| **Melting temperature $t_t$** | [°C] | DIN 4102 part 17 | < 1000 | | |
| Hydrothermal properties | | | | | |
| **Water vapour diffusion resistance factor $\mu$** | [-] | EN 13162+A1 | 1 | Declared value for water vapour diffusion resistance factor | MU1 |
| Other properties | | | | | |
| **Density** | [kg·m⁻³] | EN 1602 | 25 | | |

[1] Whichever gives the greatest numerical tolerance.
[2] Whichever gives the smallest numerical tolerance.
[3] Declared values were set under the following conditions (reference temperature 10 °C, humidity $u_{dry}$ which is reached by drying) according EN ISO 10456.
[4] 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.

## RELATED DOCUMENTS

- Declaration of Performance Akustic-Innenwand Version-004
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

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CE

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## TECHNICAL PARAMETERS

| Parameter | Unit | | Methodology | Value | Designation code |
|---|---|---|---|---|---|
| Acoustic properties[5] | | | | | |
| **The practical sound absorption coefficient $\alpha_p$** | [-] | | Declaration according to EN 13162+A1<br>Declaration according to EN ISO 11654<br>Measurement according to EN ISO 354 | Declared level of practical sound absorption coefficient | AP |

| Frequency | | | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |
|---|---|---|---|---|---|---|---|---|
| Application directly on the wall | Thickness | 20 mm | 0.05 | 0.20 | 0.50 | 0.75 | 0.90 | 0.95 |
| | | 30 mm | 0.10 | 0.30 | 0.70 | 1.00 | 1.00 | 1.00 |
| | | 40 mm | 0.20 | 0.45 | 0.85 | 1.00 | 1.00 | 1.00 |
| | | 50 mm | 0.25 | 0.60 | 1.00 | 1.00 | 1.00 | 1.00 |

| **Weighted sound absorption coefficient $\alpha_w$** | [-] | EN ISO 11654 (for NRC according ASTM C423) | Level of weighted sound absorption coefficient | AW |
|---|---|---|---|---|

| Single number value | | $\alpha_w$ |
|---|---|---|
| Thickness | 20 mm | 0.50 |
| | 30 mm | 0.60 |
| | 40 mm | 0.75 |
| | 50 mm | 0.90 |

| **Specific air flow resistivity *r*** | | Declaration according to EN 13162+A1 | Level of air flow resistivity | AFr |
|---|---|---|---|---|
| | [kPa·s·m$^{-2}$] | Measurement according to EN ISO 9053-1 | 11 | |

[5] Informative non-declared value beyond scope of CPR, obtained by concrete tests.

Example of product application ISOVER Akustic SSP 2



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