KNAUF INSULATION OEM Solutions

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# DRS SOUND SUPREME BOARD

**January 2024**

## Insulation core for superb sound insulation of wooden door systems

## DESCRIPTION

**Knauf Insulation DRS SOUND SUPREME BOARD (DRS SSB)** is new insulation board, in a unique and patented technological process specially developed for wooden doors' insulation core. It is based on composition of rock mineral wool and other ecologically oriented materials which enable **superb sound absorption (up to 43 dB** – depending on the core layers and density) in combination with **excellent fire resistance (EI 30 – EI 60)** and thermal insulation. State of the art insulation core can be prepared as a single-, double- or multi-layer board with **full-core thickness of only 11 – 50 mm** and is custom designed according to customers' specifications and requirements.

## STANDARD DIMENSIONS

Density: 500 – 900 kg/m$^3$
Thickness: 11 – 50 mm
Standard dimensions: - 2,170 × 960 mm
- 2,170 × 1,270 mm
Product customized according to the needs of the customer

## PERFORMANCE

**Sound performance**
Superb sound insulation properties of up to 43 dB

**Fire performance**
Excellent fire resistance (classes EI 30 – EI 60)

## BENEFITS

- ✔ Superb sound insulation properties (up to 43 dB depending on the core layers and density)
- ✔ Excellent fire resistance (classes EI30 – EI60; stable door construction recommended)
- ✔ Good thermal conductivity
- ✔ Advanced mechanical properties and surface hardness of insulation core
- ✔ Dimensional stability
- ✔ Precise thickness dimension tolerances

## APPLICATION

- **Insulation core for wooden door systems** in the leisure, hospitality, education, health, housing and media / broadcasting markets and in all other places **where high sound performance factors are required,** providing maximum comfort, good working and pleasant environment conditions.
- **Insulation core for entrance wooden door systems** where **high sound performance factors** in combination with **excellent thermal conductivity and good fire resistance** are required, providing sound, thermal and fire insulation of different facilities for maximum comfort, good working and pleasant environment conditions.

## STANDARDS

**Knauf Insulation DRS SOUND SUPREME BOARD (DRS SSB)** is manufactured in accordance with ISO 9001 Quality Management Systems, ISO 14001 Environmental Management Systems, ISO 50001 Energy Management Systems and ISO 45001 Occupational Health and Safety Management Systems as certified by TÜV Nord.

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create.
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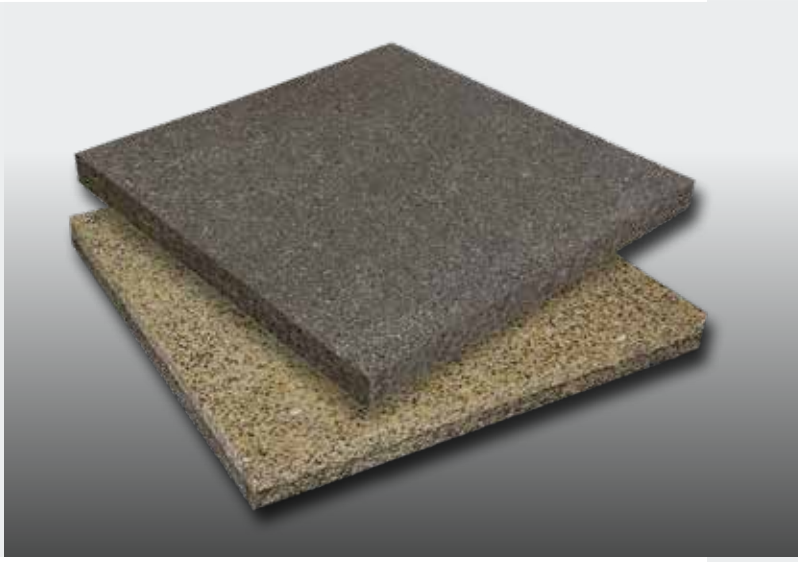
## TECHNICAL PROPERTIES

| Characteristics | Symbol | Value | | | | | Unit | Standard |
|---|---|---|---|---|---|---|---|---|
| - | - | **SSB 65** | **SSB 50/50** | **SSB 65/65** | **SSB 50/90** | **SSB 90/90** | - | - |
| Density | ρ | 650 | 500 | 650 | 700 | 900 | $kg/m^3$ | - |
| Sound insulation | - | 39 | 35 | 40 | 42 | 43 | dB | EN ISO 717-1 |
| Thermal conductivity - declared (10°C) | $\lambda_d$ | 0.092 | 0.077 | 0.092 | 0.100 | 0.120 | W/mK | EN 12667 |
| Compression strength | $\sigma_{10}$ | - | 290 | 630 | - | 1700 | MPa | EN ISO 29469 |
| Fire resistance | - | EI30 / EI60 | | | | | min | - |
| Thickness tolerance | - | +/- 0.3 | | | | | mm | EN 324-1 |
| Dimensional tolerance | - | +/- 1 | | | | | mm | EN 324-1 |
| Moisture content | - | < 2 | | | | | % | EN 322 |

## HANDLING & STORAGE

Knauf Insulation DRS SOUND SUPREME BOARD is typically packed on a wooden pallet. Slabs are covered with a PE thermo shrink hood or wrapped twice with stretch foil, which is designed for short-term protection only (with alternative packaging possible upon agreement and according to technical capacity). For longer-term protection on site, we recommend storing the product either indoors, or under a cover and off the ground, for a maximum of up to 12 months.

The performance of DRS SOUND SUPREME BOARD depends on the customer's manufacturing process and its final application. Individual customers must establish, optimize and control their manufacturing process to ensure the material meets the requirements of their manufacturing process and their final product.



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