

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.



Drywall Systems

K717.de

Product Data Sheet

2023-04



Silentboard GKF

Gypsum board for exceptional sound insulation in drywalling

Product description

Silentboard GKF gypsum boards feature a flexural ductility special gypsum core for exceptional sound insulation quality. The gypsum boards are fibre-reinforced for enhanced stability and higher fire resistance quality. The board width of 625 mm ensures good handling.

- Board type
DIN 18180
EN 520
- Board liner
- Rear side marking

GKF
DFR
brown
red

Storage

Store boards on board pallets in a dry environment.

Quality

In compliance with EN 520, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Special gypsum core for highest degree of sound insulation
- Very good performance at low frequency range
- Easy application
- Good coherence of structure when exposed to fire
- Non-combustible
- Bendable
- Folding with mitring is possible
- Low expansion and shrinkage when climate conditions change

Gypsum board for exceptional sound insulation in drywalling

Field of application

Silentboard sound shield boards are used in all interior fitting areas as cladding and for retrofitting drywalling systems to fire protection standards and the highest sound protection specifications.

Suitable for the following systems:

- Metal stud partitions
- Furrings
- Suspended ceilings
- Room in a Room system Knauf Cubo
- Upgrading of existing walls

Design

Application

Silentboard is applied almost like conventional gypsum boards. However, the boards are applied horizontally on partitions, and on ceilings reduced axial spacings for the furring channels (max. 400 mm) are required.

To reduce the amount of cut waste when using Silentboard, Knauf recommends lengths of 2000 mm for ceiling systems and 2500 mm for wall systems.

In order to avoid dust, it is preferable to break the boards (score board liner with knife and break along an edge, cutting the rear board liner). Rework and bevel the edges with a rasp.

Use Knauf Diamant screws for fastening the boards to a timber or metal substructure.

Note

Application should be undertaken in accordance to the applicable standards and acc. to the relevant Knauf system data sheets for drywall systems.

Technical data

Description	Standard	Unit	Silentboard GKF 12.5
Board type Germany	DIN 18180	–	GKF
Board type European	EN 520	–	DFR
Reaction to fire	EN 520	Class	A2-s1, d0 (B)
Width dimensional tolerance	EN 520	mm	+0 / -4
Length dimensional tolerance	EN 520	mm	+0 / -5
Thickness dimensional tolerance	EN 520	mm	+0.5 / -0.5
Angularity dimensional tolerance	EN 520	mm per m board width	≤ 2.5
Thermal conductivity λ	Following EN 12664	W/(m·K)	0.26
Shrinkage and expansion per 1 % change of relative air humidity	–	mm/m	0.005 – 0.008
Shrinkage and expansion per 1 Kelvin change of temperature	–	mm/m	0.013 – 0.02
Long term temperature exposure (max. limit)	–	°C	≤ 50
Density	DIN 18180	kg/m ³	≥ 1400
Flexural breaking load longitudinal direction	EN 520	N	≥ 725
Flexural breaking load transverse direction	EN 520	N	≥ 300
Board weight	–	kg/m ²	17.5
Water vapour resistance factor μ dry	EN ISO 10456	–	10
Water vapour resistance factor μ wet	EN ISO 10456	–	4
Bending radius dry	–	mm	≥ 2750
Bending radius wet	–	mm	≥ 1000

Order information

Description	Width	Length	Thick-ness	Edges	Delivery weight	Packaging unit	Material number	EAN
Silentboard GKF 12.5	625 mm	2000 mm	12.5 mm	SSK HRAK	approx. 17.9 kg/m ²	42 pieces / pallet 52.5 m ² / pallet	00413365	4003982287946
Silentboard GKF 12.5	625 mm	2500 mm	12.5 mm	SSK HRAK	approx. 17.9 kg/m ²	42 pieces / pallet 65.6 m ² / pallet	00413366	4003982287953
Silentboard GKF 12.5	Custom	Custom	12.5 mm	SSK HRAK	approx. 17.9 kg/m ²	-	00413368	4003982287960

HRAK = Half-rounded tapered long edge

SSK = Front cut square edge

Sustainability and environment

Short description	Unit	Value
Requirements of the German AgBB-scheme	–	fulfilled
Complies with the requirements of the French emission class	–	A+
LEED requirements	–	fulfilled
BREEAM requirements	–	Exemplary Level
Eurofins Indoor Air Comfort Gold®	–	fulfilled
Recycling share post-consumer	%	2
Environmental product declaration	–	EPD-KNA-20160123-IBB1-DE

**Observe the safety data sheet!**

For safety data sheets and CE marking see

pd.knauf.de

Videos for Knauf systems and products can be found under the following link:

youtube.com/knauf

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