

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.

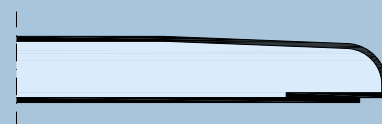


Drywall Systems

K712B.de

Product Data Sheet

2020-10



Wallboard GKBI

Impregnated gypsum board for basis systems in drywall construction

Product description

Wallboard GKBI boards are impregnated gypsum boards for reduced water absorption in rooms with moderately high humidity.

- Board type
 - DIN 18180
 - EN 520
- Colour of board liner
 - Face side
 - Rear side
- Reverse side marking

GKBI
H2

green
grey
blue

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

- Impregnated for reduced water absorption
- Easy application
- Non-combustible
- Bendable
- Folding with mitring is possible
- Low expansion and shrinkage when climate conditions change

Impregnated gypsum board for basis systems in drywall construction

Field of application

Wallboard GKBI is used in all fields of interior works as cost-effective cladding for drywall systems in rooms with moderately high humidity.

Rooms with moderately high humidity are rooms with a constant relative air humidity of $\leq 70\%$ (e.g. domestic bathrooms).

Suitable for the following systems:

- Ceiling linings and suspended ceilings
- Attic linings
- Metal stud partitions
- Wood frame partitions
- Structural wood frame wall panels (load bearing)
- Furrings

Technical data

Description	Standard	Unit	Wallboard GKBI
Board type Germany	DIN 18180	–	GKBI
Board type European	EN 520	–	H2
Reaction to fire EN 13501-1	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 board width	≤ 2.5
Thermal conductivity λ	EN ISO 10456	W/(m·K)	0.21
Water vapour resistance factor μ dry	EN ISO 10456	–	10
Water vapour resistance factor μ wet	EN ISO 10456	–	4
Shrinkage and expansion air humidity per 1 % change of relative air humidity	–	mm/m	0.005 – 0.008
Shrinkage and expansion temperature per 1 Kelvin change of temperature	–	mm/m	0.013 – 0.02
Long term temperature exposure (max. limit)	–	°C	≤ 50
Density	–	kg/m ³	≥ 680
Board weight	DIN 18180	kg/m ²	≥ 8.5
Flexural breaking load longitudinal direction	DIN 18180	N	≥ 610
Flexural breaking load transverse direction	DIN 18180	N	≥ 210
Characteristic compressive strength $f_{c,90,k}$ (out of plane board)	DIN EN 1995/1/1 NA	N/mm ²	≥ 3.5
Characteristic bending tensile strength $f_{m,k}$ (out of plane loads) longitudinal direction	DIN EN 1995/1/1 NA	N/mm ²	≥ 6.5
Characteristic bending tensile strength $f_{m,k}$ (out of plane loads) transverse direction	DIN EN 1995/1/1 NA	N/mm ²	≥ 2.0
Mean E modulus E_{mean} (out of plane loads) longitudinal direction	DIN EN 1995/1/1 NA	N/mm ²	≥ 2800
Mean E modulus E_{mean} (out of plane loads) transverse direction	DIN EN 1995/1/1 NA	N/mm ²	≥ 2200
Total water absorption	EN 520	%	≤ 10
Bending radius dry	–	mm	$r \geq 2750$
Bending radius wet (Note extended residence time due to hydrophobic core)	–	mm	$r \geq 1000$

Application

Installation

Note

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

Product range

Description	Width mm	Length mm	Thickness mm	Edges	Delivery weight kg/m ²	Packaging unit	Material number	EAN
Wallboard GKBI 12.5	1250	2000	12.5	HRAK SFK	9	50 pieces / pallet 125 m ² / pallet	00002911	4003982001665
						24 pieces / pallet 60 m ² / pallet	00048498	4003982512444
		2500		HRAK SSK		50 pieces / pallet 156.2 m ² / pallet	00002912	4003982001672
		3000				40 pieces / pallet 150 m ² / pallet	00002914	4003982001931
		Customized length				–	00007485	4003982156884
		2000		AK SSK		50 pieces / pallet 125 m ² / pallet	00005195	4003982001948
						24 pieces / pallet 60 m ² / pallet	00071511	4003982302144

HRAK = Half-rounded tapered long edge

AK = Tapered long edge

SFK = Bevelled cut 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+
Environmental product declaration	–	EPD-KNA-20160141-IAG1-DE



Observe 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:

www.youtube.com/knauf



The iPad App Knauf Infothek now provides all the current information and documents from Knauf Gips KG at any time and in every location in a clear and comfortable way.

[Knauf Infothek](#)

Knauf Direct

Technical Advisory Service:

▶ knauf-direkt@knauf.de

▶ www.knauf.de

Knauf Gips KG Am Bahnhof 7, 97346 Iphofen, Germany

All technical changes reserved. Only the current printed instructions are valid. The stated information represents current state-of-the-art Knauf technology. The entire state of approved engineering rules, appropriate standards, guidelines, and rules of craftsmanship are not included herewith. These and all application instructions have to be adhered to separately by the installer. Our warranty is expressly limited to our products in flawless condition. All application quantities and delivery amounts are based on empirical data that are not easily transferable to other deviating areas.

All rights reserved. All amendments, reprints and photocopies, including those of excerpts, require our expressed permission.