

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

K712A.de

Product Data Sheet

2020-10



DIY Board GKBI

Impregnated narrow gypsum board for drylining and basis systems in drywalling

Product description

DIY Boards GKBI are narrow gypsum board that are only 600 mm wide. The format makes them ideally suitable for dry lining purposes. The gypsum boards are impregnated 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
- Narrow format
- Non-combustible
- Bendable
- Folding with mitring is possible
- Low expansion and shrinkage when climate conditions change

Field of application

DIY board GKBI is used in all fields of interior works as cost-effective cladding for drywall systems in rooms with moderately high humidity. The narrow format makes them ideal for dry lining applications.

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:

- Dry lining
- Ceiling linings and suspended ceilings
- Attic linings
- Metal stud partitions
- Wood frame partitions

Technical data

Description	Standard	Unit	DIY Board 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

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

Description	Width mm	Length mm	Thickness mm	Edges	Delivery weight kg/m ²	Packaging unit	Material number	EAN
DIY Board GKBI 12.5	600	2000	12.5	HRK SSK	9.1	60 pieces / pallet 72 m ² / pallet	00011461	4003982142047
	600	2600				60 pieces / pallet 93.6 m ² / pallet	00007370	4003982142023

HRK = Half-rounded 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+
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



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