

Knauf Wallboard impregnated

The economic gypsum board GKBI for basic drywall systems

Product description

- Board type
DIN 18180 GKBI
EN 520 H2
- Colour of board liner: green
- Rear side marking: blue

Order information

Board thickness 12.5 mm

- 2,000x1,250 mm Material no. 00002911
- 2,500x1,250 mm Material no. 00002912
- 2,600x1,250 mm Material no. 00002913
- 3,000x1,250 mm Material no. 00002914

Customized lengths on request

Storage

On wooden pallets in a dry environment

Fields of application

Knauf Wallboards impregnated are used in all fields of interior works as economic cladding of drywall systems in rooms with moderately high humidity

Systems:

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

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

In addition, DIN 1052 allows the application in structural wood frame wall panels as exterior cladding in the use category 2 (e.g. as substrate for ETICS).

Properties and added value

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

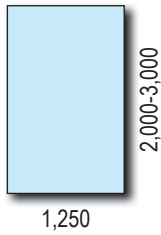
K712B Knauf Wallboard impregnated

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Technical data

■ Board dimensions (in mm):



■ Edge types

- Long edges with paper lining: **HRAK**



- Front edges: **SK**



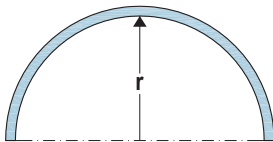
■ Dimension tolerances acc. to EN 520:

- Width: +0 / -4 mm
- Length: +0 / -5 mm
- Thickness: +0.5 / -0.5 mm
- Angularity: ≤ 2.5 mm per m board width

■ Minimum bending radii

Board thickness 12.5 mm

- Dry bending: $r \geq 2,750$ mm
 - Wet bending: $r \geq 1,000$ mm
- (Note extended residence time due to hydrophobic core)



Board type:	GKBI	DIN 18180
	H2	EN 520
Reaction to fire EN 13501-1:	A2-s1,d0 (B)	EN 520
Water vapour diffusion resistance μ :		EN ISO 10456
■ Dry	10	
■ Wet	4	
Thermal conductivity λ :	W/(m·K) 0.21	EN ISO 10456
Shrinkage and expansion		
■ per 1 % change of relative air humidity:	mm/m 0.005 - 0.008	
■ per 1 Kelvin change of temperature:	mm/m 0.013 - 0.02	
Total water absorption:	% ≤ 10	EN 520
Density:	kg/m ³ ≥ 680	DIN 18180
Board weight		DIN 18180
■ Board thickness 12.5 mm:	kg/m ² ≥ 8.5	
Characteristic compressive strength $f_{c,90,k}$ (for out of plane loads):	N/mm ² ≥ 3.5	DIN 1052
Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads)		DIN 1052
■ Board thickness 12.5 mm		
- Longitudinal direction:	N/mm ² ≥ 6.5	
- Transverse direction:	N/mm ² ≥ 2.0	
Average E modulus E_{mean} (for out of plane loads)		DIN 1052
■ Longitudinal direction:	N/mm ² ≥ 2,800	
■ Transverse direction:	N/mm ² ≥ 2,200	
Flexural breaking load		DIN 18180
■ Board thickness 12.5 mm:		
- Longitudinal direction:	N ≥ 610	
- Transverse direction:	N ≥ 210	
Max. limit for long term temperature exposure: °C	≤ 50 (short-term ≤ 60)	

Notes

Application

Application should be done acc. to the applicable standards and acc. to the Knauf Technical Data Sheets of the respective drywall system.

Disposal

Waste code number (AVV code):

17 08 02

17 09 04

Knauf Direct

Technical Advisory Service:

▶ Phone.: +49 9001 31-1000 *

▶ Fax: +49 1805 31-4000 **

▶ www.knauf.de

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* Call rates to Knauf Direct from within the German landline network: 0.39 € per Min., Callers whose phone numbers are not registered in the Knauf address database, e. g. private builders or non-patrons are charged 1.69 €/Min. Calls from mobile phones may differ and will be charged acc. to net provider and call rate.

** Fax: 0.14 €/Min. within the German landline network

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K712B/engl./D/01.11/FB/D

The stated constructional and structural properties, and characteristic building physics of Knauf systems can solely be ensured with the exclusive use of Knauf system components, or other products expressly recommended by Knauf.