



K714F.de

GKFI - DIN 18180 DFH2 - DIN EN 520

Drywall Systems

02/2015

Knauf Fire-Moisture resistant gypsum board GKFI

the economic impregnated plasterboard for basic systems in drywall construction

Product description

- Board type:

DIN 18180	GKFI
DIN EN 520	DFH2
- Colour of board liner: green
- Rear side marking: red

Lieferform

Board thickness: 12,5 / 15,0 mm

- 2500x1200 mm Customized lengths on request

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.

Field of application

Knauf moisture-fire resistant boards GKFI are used in all areas of interior construction as economical planking in drywall systems with fire protection requirements and in rooms with moderate humidity. Rooms with moderate 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
- Timber stud partitions (non-load bearing)
- Installation shaft walls

Properties and added value

- Impregnated for reduced water absorption
- Good coherence of structure when exposed to fire
- Easy application
- Non-combustible
- Low expansion and shrinkage when the climatic conditions change

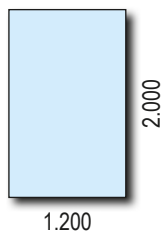
K714F.de Knauf Fire-Moisture resistant gypsum board GKFI

the economic impregnated plasterboard for basic systems in drywall construction



Technical data

■ Board dimensions (in mm):

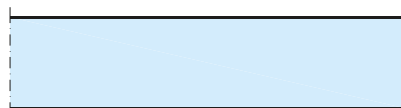


■ Type of edge

- Long edge types with paper lining: **HRAK**



- Front edge types: **SK**



■ Dimensional tolerance DIN EN 520:

- Width: +0 / -4 mm
- Length: +0 / -5 mm
- Thickness: +0,5 / -0,5 mm
- Angularity: ≤ 2,5 mm per board width

Notes

Application

Application should be done in accordance to the applicable standards and according to the relevant Knauf System Data Sheets for drywall systems.

Safety and disposal

See Safety Data Sheet.

Board thickness	mm	12,5 / 15,0	
Board type		GKFI DFH2	DIN 18180 DIN EN 520
Reaction to fire DIN EN 13501-1		A2-s1,d0 (B)	DIN EN 520
Water vapour resistance factor μ			DIN EN ISO 10456
■ dry		10	
■ wet		4	
Thermal conductivity λ	W/(m·K)	0,23	DIN 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	DIN EN 520
Density	kg/m ³	≥ 800	DIN 18180
Board weight (nominal)	kg/m ²	≥ 12	DIN 18180
Characteristic compressive strength $f_{c,90,k}$ (for out of plane loads)	N/mm ²	≥ 5,5	DIN EN 1995-1-1 NA
Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads)			DIN EN 1995-1-1 NA
■ Longitudinal direction	N/mm ²	≥ 5,4	
■ Transverse direction	N/mm ²	≥ 1,8	
Mean value E-Modul E_{mean} (for out of plane loads)			DIN EN 1995-1-1 NA
■ Longitudinal direction	N/mm ²	≥ 2800	
■ Transverse direction	N/mm ²	≥ 2200	
Flexural breaking load			DIN 18180
■ Longitudinal direction	N	≥ 735	
■ Transverse direction	N	≥ 250	
Long term temperature exposure (max. limit)	°C	≤ 50	



Specification texts for all Knauf systems and products with export functions for Word, PDF and GAEB

www.ausschreibungscenter.de



Safety data sheet!

See Safety Data Sheets and CE Marking

pd.knauf.de

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.

K713M.de/engl./02.11/FB

The stated constructional and structural design specifications and characteristics of building physics of Knauf systems can only be ensured with the exclusive use of Knauf system components, or other products expressly recommended by Knauf.