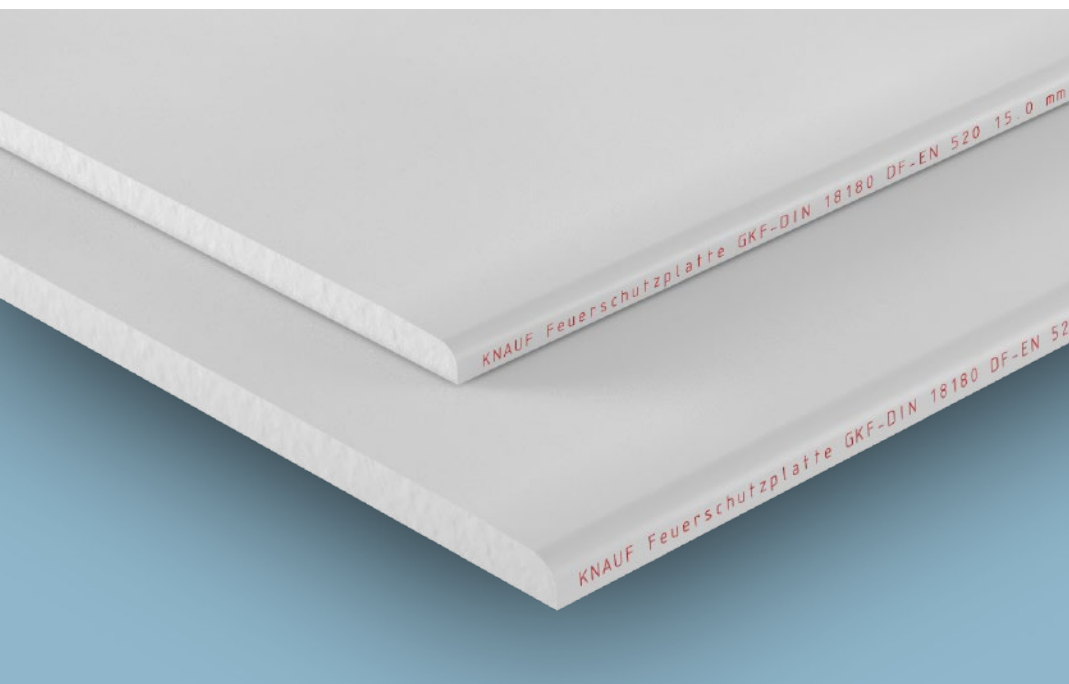


Note on English translation / Hinweise zur englischen Fassung

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

K713F.de

Product Data Sheet

2022-05



Fire-Resistant Board GKF

Cost-Effective Gypsum Board for Fire Protection Systems in Drywall Construction

Product description

Fire-resistant boards GKF are gypsum boards with a fibre-reinforced gypsum core for fire resistant systems.

- Board type
 - DIN 18180 GKF
 - EN 520 DF
- Colour of board liner
 - Face side grey
 - Rear side grey
- Rear side marking 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

- Good coherence of structure when exposed to fire
- Easy application
- Non-combustible
- Low expansion and shrinkage when climate conditions change
- Folding with mitring is possible

Field of application

Feuerschutzplatte GKF fire-resistant board is used in all fields of interior works as cost-effective cladding of drywall systems with enhanced fire protection.

Suitable for the following systems:

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

Technical data

Description	Standard	Unit	Feuerschutzplatte fire-resistant board GKF 15	Feuerschutzplatte fire-resistant board GKF 18
Board type Germany	DIN 18180	–	GKF	GKF
Board type European	EN 520	–	DF	DF
Reaction to fire EN 13501-1	EN 520	Class	A2-s1, d0 (B)	A2-s1, d0 (B)
Width dimensional tolerance	EN 520	mm	+0 / -4	+0 / -4
Length dimensional tolerance	EN 520	mm	+0 / -5	+0 / -5
Thickness dimensional tolerance	EN 520	mm	+0.5 / -0.5	+0.7 / -0.7
Angularity dimensional tolerance	EN 520	mm per board width	≤ 2.5	≤ 2.5
Thermal conductivity λ	EN ISO 10456	W/(m·K)	0.23	0.23
Water vapour resistance factor μ dry	EN ISO 10456	–	10	10
Water vapour resistance factor μ , wet	EN ISO 10456	–	4	4
Shrinkage and expansion air humidity per 1 % change of relative air humidity	–	mm/m	0.005 – 0.008	0.005 – 0.008
Shrinkage and expansion temperature per 1 Kelvin change of temperature	–	mm/m	0.013 – 0.02	0.013 – 0.02
Long term temperature exposure (max. limit)	–	°C	≤ 50	≤ 50
Density	DIN 18180	kg/m ³	≥ 800	≥ 800
Board weight	DIN 18180	kg/m ²	≥ 12	≥ 14.4
Flexural breaking load longitudinal direction	DIN 18180	N	≥ 735	≥ 880
Flexural breaking load transverse direction	DIN 18180	N	≥ 250	≥ 300
Characteristic compressive strength $f_{c,90,k}$ (out of plane board)	EN 1995/1/1 NA	N/mm ²	≥ 5.5	≥ 5.5
Characteristic bending tensile strength $f_{m,k}$ (out of plane loads) longitudinal direction	EN 1995/1/1 NA	N/mm ²	≥ 5.4	≥ 4.2
Characteristic bending tensile strength $f_{m,k}$ (out of plane loads) transverse direction	EN 1995/1/1 NA	N/mm ²	≥ 1.8	≥ 1.5
Mean E modulus E_{mean} (out of plane loads) longitudinal direction	EN 1995/1/1 NA	N/mm ²	≥ 2800	≥ 2800
Mean E modulus E_{mean} (out of plane loads) transverse direction	EN 1995/1/1 NA	N/mm ²	≥ 2200	≥ 2200

Design

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	Length	Thickness	Edges	Delivery weight	Packaging unit	Material number	EAN
Fire-Resistant Board GKF 15	1250 mm	2000 mm	15 mm	HRAK SFK	approx. 12.4 kg/m ²	40 pieces / pallet 100 m ² / pallet	00002894	4003982001528
	1250 mm	2000 mm	15 mm	HRAK SFK	approx. 12.4 kg/m ²	16 pieces / pallet 40 m ² / pallet	00004813	4003982494177
	1250 mm	2500 mm	15 mm	HRAK SSK	approx. 12.4 kg/m ²	40 pieces / pallet 125 m ² / pallet	00002895	4003982001535
	1250 mm	Custom length	15 mm	HRAK SSK	approx. 12.4 kg/m ²	–	00007458	4003982183279
Fire-Resistant Board GKF 18	1250 mm	2000 mm	18 mm	HRAK SSK	approx. 15 kg/m ²	36 pieces / pallet 90 m ² / pallet	00002897	4003982002044
	1250 mm	Custom length	18 mm	HRAK SSK	approx. 15 kg/m ²	–	00009794	4003982183453

HRAK = half-rounded 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+
LEED requirements (v4.1 BETA outside the USA)	–	fulfilled
Requirement BREEAM International (New Construction v2.0)	–	Exemplary Level
Eurofins Indoor Air Comfort Gold®	–	fulfilled
Recycling share post-consumer	%	approx. 3
Environmental product declaration	–	EPD-KNA-20160144-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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