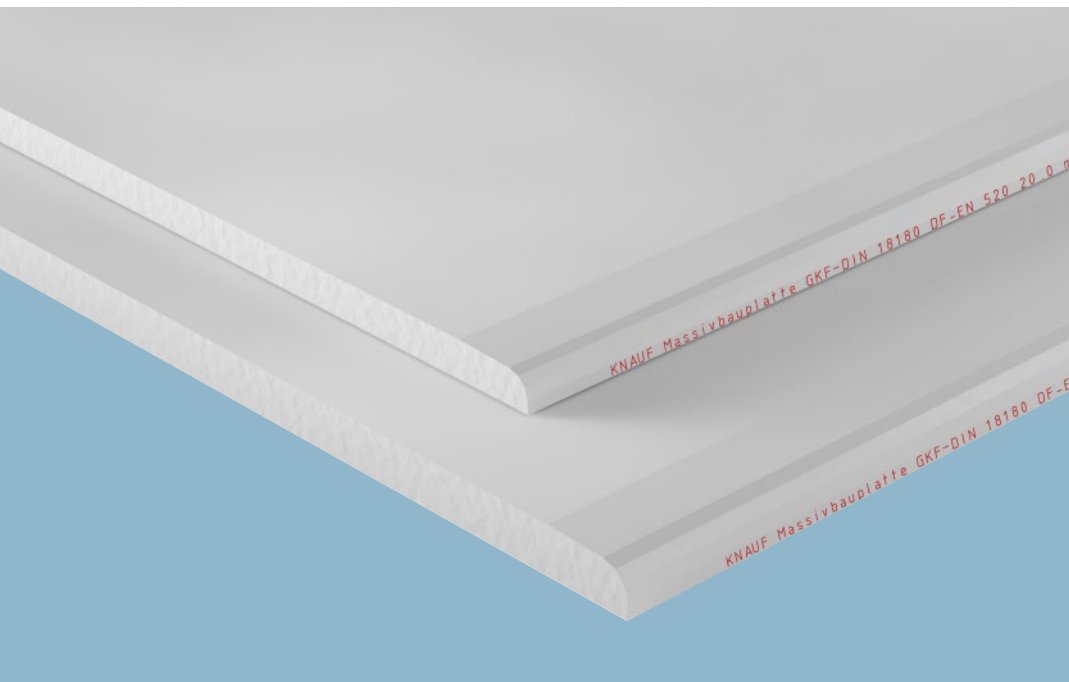


Note on English translation / Hinweise zur englischen Fassung

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

K713M.de

Product Data Sheet

2021-05



Solid Board GKF

Sturdy gypsum board for fire protection systems and solid character in drywalling

Product description

Solid Boards GKF are gypsum boards with a fibre-reinforced gypsum core for fire resistant systems. They are particularly effective thanks to their greater material thickness. The board width of 625 mm ensures easy handling.

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

GKF
DF
grey
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
- Solid character
- Suitable for larger substructure clearances
- High stability even with single-layer constructions
- Easy application
- Non-combustible
- Low expansion and shrinkage when climate conditions change

Field of application

Solid Board GKF is used in all fields of interior works as cost-effective cladding for drywall systems in areas with enhanced fire resistance requirements.

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	Solid Board GKF 20	Solid Board GKF 25
Board type Germany	DIN 18180	–	GKF	
Board type European	EN 520	–	DF	
Reaction to fire	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	+0.8 / -0.8	+1.0 / -1.0
Angularity dimensional tolerance	EN 520	mm per m board width	≤ 2.5	
Thermal conductivity λ	EN ISO 10456	W/(m·K)	0.23	
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	≥ 800	
Board weight	DIN 18180	kg/m ²	≥ 16	≥ 20
Flexural breaking load longitudinal direction	DIN 18180	N	≥ 860	≥ 1075
Flexural breaking load transverse direction	DIN 18180	N	≥ 336	≥ 420
Characteristic compressive strength $f_{c,90,k}$ (out of plane board) ¹⁾	EN 1995-1-1 NA	N/mm ²	5.5	
Characteristic bending tensile strength $f_{m,k}$ (out of plane loads) longitudinal direction ¹⁾	EN 1995-1-1 NA	N/mm ²	3.4	2.2
Characteristic bending tensile strength $f_{m,k}$ (out of plane loads) transverse direction ¹⁾	EN 1995-1-1 NA	N/mm ²	1.2	0.8
Mean E modulus E_{mean} (out of plane loads) Longitudinal direction ¹⁾	EN 1995-1-1 NA	N/mm ²	2800	
Mean E modulus E_{mean} (out of plane loads) Transverse direction ¹⁾	EN 1995-1-1 NA	N/mm ²	2200	

1) Dimensioned using the nominal thickness 18 mm – compare to DIN EN 1995-1-1/NA

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	Thick- ness mm	Edges	De- livery weight kg/m ²	Packaging unit	Material number	EAN
Solid Board GKF 20	625	2000	20	HRAK SSK	16.2	24 pieces / pallet 30 m ² / pallet	00002904	4003982001573
		2500				24 pieces / pallet 37.5 m ² / pallet	00053980	4003982157027
		2600				24 pieces / pallet 39 m ² / pallet	00002905	4003982001580
		Customized length				–	00007467	4003982247032
Solid Board GKF 25	625	2000	25	HRAK SSK	20.2	20 pieces / pallet 25 m ² / pallet	00002900	4003982002075
		2500				20 pieces / pallet 31.2 m ² / pallet	00053981	4003982157034
		2600				20 pieces / pallet 32.5 m ² / pallet	00002901	4003982001597
		Customized length				–	00007463	4003982301956

HRAK = Half-rounded tapered 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-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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