

## Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical 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.

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# K713F.de

GKF - DIN 18180 DF - EN 520

Drywall Systems

2015-02

# Knauf Feuerschutzplatte GKF fire-resistant board

The cost-effective gypsum board GKF for basis systems in drywall construction

## Product description

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

### Order information

Board thickness 15 mm

- 2000x1250 mm Material no. 00002894
- 2500x1250 mm Material no. 00002895

Board thickness 18 mm

- 2000x1250 mm Material no. 00002897
- 2500x1250 mm Material no. 00002898

Customized lengths on request

### Storage

Store boards on wooden 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 is marked with the CE marking.

## Field of application

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

### Systems:

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

## Properties and added value

- Good coherence of structure when exposed to fire
- Easy application
- Non-combustible
- Can be folded by mitring
- Low expansion and shrinkage when climate conditions change

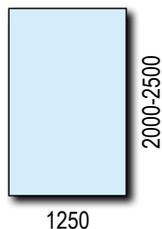
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## Technical data

### ■ Board format (in mm):



### ■ Edge types

- Long edges with paper lining:

#### Half-rounded tapered edge



- Front edges:

#### Cut edges



### ■ Dimension tolerances acc. to EN 520:

- Width: +0 / -4 mm
- Length: +0 / -5 mm
- Thickness at 15 mm: +0.5 / -0.5 mm
- Thickness at 18 mm: +0.7 / -0.7 mm
- Angularity: ≤ 2.5 mm per m board width

Board thickness	mm	15	
	mm	18	
Board type		GKF DF	DIN 18180 EN 520
Reaction to fire EN 13501-1		A2-s1,d0 (B)	EN 520
Water vapour diffusion resistance $\mu$			EN ISO 10456
■ Dry		10	
■ Wet		4	
Thermal conductivity $\lambda$	W/(m·K)	0.23	EN ISO 10456
Shrinkage and expansion			
■ per 1 % change in the relative air humidity	mm/m	0.005 – 0.008	
■ per 1 Kelvin change of temperature	mm/m	0.013 – 0.02	
Density	kg/m <sup>3</sup>	≥ 800	DIN 18180
Board weight			DIN 18180
■ Board thickness 15 mm	kg/m <sup>2</sup>	≥ 12	
■ Board thickness 18 mm	kg/m <sup>2</sup>	≥ 14.4	
Characteristic compressive strength $f_{c,90,k}$ (for out of plane loads)	N/mm <sup>2</sup>	≥ 5.5	EN 1995-1-1/NA
Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads)			EN 1995-1-1/NA
■ Board thickness 15 mm			
▪ Longitudinal direction	N/mm <sup>2</sup>	≥ 5.4	
▪ Transverse direction	N/mm <sup>2</sup>	≥ 1.8	
■ Board thickness 18 mm			
▪ Longitudinal direction	N/mm <sup>2</sup>	≥ 4.2	
▪ Transverse direction	N/mm <sup>2</sup>	≥ 1.5	
Average E modulus $E_{mean}$ (for out of plane loads)			EN 1995-1-1/NA
■ Longitudinal direction	N/mm <sup>2</sup>	≥ 2800	
■ Transverse direction	N/mm <sup>2</sup>	≥ 2200	
Flexural breaking load			DIN 18180
■ Board thickness 15 mm			
▪ Longitudinal direction	N	≥ 735	
▪ Transverse direction	N	≥ 250	
■ Board thickness 18 mm			
▪ Longitudinal direction	N	≥ 880	
▪ Transverse direction	N	≥ 300	
Max. limit for long term temperature exposure	°C	≤ 50	

## Notes

### Application

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

## Knauf Direct

Technical Advisory Service:

▶ [knauf-direkt@knauf.de](mailto:knauf-direkt@knauf.de)

▶ [www.knauf.de](http://www.knauf.de)

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