

KNAUF FIRE RESISTANT BOARD GFK



The Knauf fire-resistant board GFK is a cost-effective gypsum board GFK for basis systems in drywall construction.

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

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.

Properties and added value:

- › Simple installation of cladding and sheet metal lining in a single step
- › Good coherence of structure when exposed to fire
- › Easy application
- › Non-combustible
- › Can be folded by mitring
- › Low expansion and shrinkage

TECHNICAL DATA			
Board thickness	mm	15 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 μ		Dry: 10 Wet: 4	EN ISO 10456
Thermal conductivity λ	W/(m·K)	0.23	EN ISO 10456
Shrinkage and expansion	mm/m	per 1 % change in the relative air humidity: 0.005 – 0.008 per 1 Kelvin change of temperature: 0.013 – 0.02	
Density	kg/m ³	≥ 800	DIN 18180
Board weight	kg/m ²	Board thickness 15 mm: ≥ 12 Board thickness 18 mm: ≥ 14.4	DIN 18180
Characteristic compressive strength $f_{c,90,k}$ (for out of plane loads)	N/mm ²	≥ 5.5	EN 1995-1-1/NA
Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads)	N/mm ²	Board thickness 15 mm Longitudinal direction: ≥ 5.4; Transverse direction: ≥ 1.8 Board thickness 18 mm Longitudinal direction: ≥ 4.2; Transverse direction: ≥ 1.5	EN 1995-1-1/NA
Average E modulus E_{mean} (for out of plane loads)	N/mm ²	Longitudinal direction: ≥ 2800 Transverse direction: ≥ 2200	EN 1995-1-1/NA
Flexural breaking load	N	Board thickness 15 mm Longitudinal direction: ≥ 735; Transverse direction: ≥ 250 Board thickness 18 mm Longitudinal direction: ≥ 880; Transverse direction: ≥ 300	DIN 18180
Max. limit for long term temperature exposure	°C	≤ 50	

Product description

Board type

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

Application

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

Technical data

Board format (in mm):

1250 x 2000

Edge types

- Long edges with paper lining: half-rounded tapered edge
- Front edges: Cut edges

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.

Suitable for the following systems:

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

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

Storage

Store boards on board pallets in a dry environment.