

## Knauf Brown Gypsum plasterboard for floor

### Material

Knauf Brown is especially durable gypsum plasterboard for floors with increased core strength.  
Colour of board liner – brown.  
Rear side marking – red.  
Long edges with paper lining – VK (tapered).  
Front edges – SK (cutted).

### Board type

EN 520: DFIR  
DIN 18180: GKF

### 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.

### Dimensions

12,5 x 900 x 2000 mm (VK) art. No. 136706

### Application

Knauf Brown is gypsum plasterboard for floors. Knauf pre-fab floor screed consist of two layers of special gypsum plasterboard with high strength that are glued and stapled to each other on site. Knauf Brown is suitable for:

- Rooms and halls in residential buildings, hospital wards, hotel rooms including their kitchens and bathrooms,
- Halls in office buildings, offices, surgeries w/o heavy equipment, station waiting rooms, recreation rooms including halls, salesroom areas up to 50 m², ground floor areas in residential buildings, office buildings and similar facilities.

Suitable for:

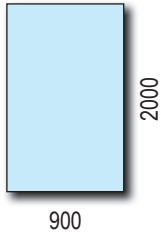
- Underfloor heating,
  - Chair roll resistance with  $\geq 2$  mm Knauf N 410,
  - Pre-fabricated parquet flooring and mosaic parquet flooring,
  - Carpets, PVC and linoleum,
  - Parquet flooring on insulation layer,
  - Tiles, max. 330 mm x 330 mm.
- For indoor use.

### Properties

- Robust surface
- High impact sound insulation
- Low expansion and shrinkage when climate conditions change
- Non-combustible
- Easy application

## Technical data

### ■ Dimensions (mm)



### ■ Edge types

- long edges: **VK (tapered)**



- front edges: **SK (cutted)**



### ■ Dimensional tolerances (EN 520)

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

### Board type:

GKF  
DFIR  
DIN 18180  
EN 520

### Reaction to fire EN 13501-1:

A2-s1,d0 (B)  
EN 520

### Water vapour diffusion resistance $\mu$

- Dry: 10
- Wet: 4
- EN ISO 10456

### Thermal conductivity $\lambda$ :

W/(m·K) 0,25  
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

### Density:

kg/m<sup>3</sup> ≥ 960  
DIN 18180

### Board weight:

kg/m<sup>2</sup> ≥ 12  
DIN 18180

### Characteristic bending tensile strength $f_{m,k}$

EN 1995-1-1

### (for out of plane loads):

- Longitudinal direction: N/mm<sup>2</sup> ≥ 8,1
- Transverse direction: N/mm<sup>2</sup> ≥ 3,3

### Flexural breaking load

EN 520

- Longitudinal direction: N ≥ 725
- Transverse direction: N ≥ 300

### Max. limit for long term temperature exposure: °C

≤ 50 (short-term ≤ 60)

## Notes

### Application

Application should be done acc. to the applicable standards and acc. to the Knauf Technical Data Sheets of the respective drywall system.

### Safety instructions and disposal

See Safety Data Sheet.

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The characteristic building physics, statical and structural properties of Knauf systems can solely be ensured with the exclusive use of Knauf system components, or other products expressly recommended by Knauf.

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