

## Knauf Red Fire-resistant gypsum plasterboard

### Material

Knauf Red is special fire-resistant gypsum plasterboard with increased core strength.  
Colour of board liner – red.  
Rear side marking – red.  
Long edges with paper lining – HRAK, AK (tapered).  
Front edges – SK (cutted).

### Board type

EN 520: DF  
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 1200 x 2600 mm (HRAK)	art. No. 260327
12,5 x 1200 x 3000 mm (HRAK)	art. No. 66307
12,5 x 1200 x 2000/4000*	art. No. 43051
15 x 1200 x 2600 mm (AK)	art. No. 68305
15 x 1200 x 3000 mm	art. No. 97341
15 x 1200 x 2000/3000* mm	art. No. 43070

\* Customized lengths – to order

### Application

Knauf Red fire-resistant boards are used in all fields of interior works as cost-effective cladding of drywall systems with enhanced fire protection. For indoor use.

### Systems:

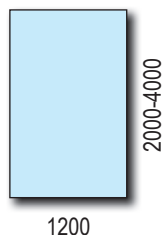
- Ceiling linings and suspended ceilings
- Attic linings
- Metal stud partitions
- Wood frame partitions
- Structural wood frame wall panels (load bearing)
- Installation shaft walls

### Properties

- 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

### Technical data

#### ■ Dimensions (mm)



#### ■ Edge types

- long edges:

**HRAK** (tapered)



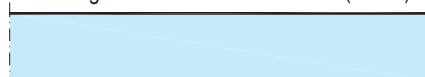
or

**AK** (tapered)



- front edges:

**SK** (cutted)



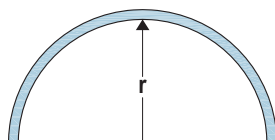
#### ■ Dimensional tolerances (EN 520)

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

#### ■ Minimum bending radius

Board thickness 12,5 mm

- Dry bending:  $r \geq 2750$  mm
- Wet bending:  $r \geq 1000$  mm



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)	0,25 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>	≥ 800 DIN 18180
Board weight:		DIN 18180
12,5 mm	kg/m <sup>2</sup>	≥ 10
15,0 mm	kg/m <sup>2</sup>	≥ 12
Characteristic compressive strength $f_{c,90,k}$ (for out of plane loads):	N/mm <sup>2</sup>	≥ 5,5 EN 1995-1-1
Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads)		EN 1995-1-1
■ Board thickness 12,5 mm:		
- Longitudinal direction:	N/mm <sup>2</sup>	≥ 6,1
- Transverse direction:	N/mm <sup>2</sup>	≥ 2,3
■ Board thickness 15 mm:		
- Longitudinal direction:	N/mm <sup>2</sup>	≥ 5
- Transverse direction:	N/mm <sup>2</sup>	≥ 1,9
Average E modulus $E_{mean}$ (for out of plane loads)		EN 1995-1-1
- Longitudinal direction:	N/mm <sup>2</sup>	≥ 2800
- Transverse direction:	N/mm <sup>2</sup>	≥ 2200
Flexural breaking load		DIN 18180
■ Board thickness 12,5 mm:		
- Longitudinal direction:	N	≥ 610
- Transverse direction:	N	≥ 210
■ Board thickness 15 mm		DIN 18180
- Longitudinal direction:	N	≥ 735
- Transverse direction:	N	≥ 250
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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