

## Knauf Blue

### Special gypsum hard-board for premium drywalling

#### Material

Knauf Blue is an especially durable plasterboard with enhanced strength and surface hardness, improved core adhesion at high temperature, controlled density and reduced water absorption rate. Colour of board liner – blue. Rear side marking – red. Long edges with paper lining – HRAK, AK (tapered). Front edges – SK (cutted).

#### Board type

EN 520: DFH2IR  
DIN 18180: GKFI

#### 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. 186028  
12,5 x 1200 x 3000 mm (HRAK) art. No. 260284  
12,5 x 1200 x 2000/4000\* mm (HRAK) art. No. 48687  
15 x 1200 x 2000 mm (AK) art. No. 461560  
15 x 1200 x 3000\* mm (AK) art. No. 67940

\* Customized lengths – to order

#### Application

Knauf Blue are used in all fields of interior works as cladding of premium drywall systems with enhanced requirements for sound insulation and fire protection, and in case of special requirements on mechanical resistance and in rooms with moderately high humidity. For indoor use.

#### Systems:

- Ceiling linings and suspended ceilings
- Attic linings
- Metal stud partitions
- Wood frame partitions (non-load bearing)
- Installation shaft walls
- Room-in-room systems Knauf Cubo

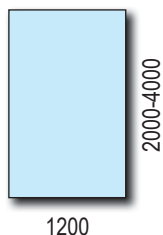
Rooms with moderately high humidity are rooms with a constant relative air humidity of  $\leq 70\%$  (e.g. domestic bathrooms).

#### Properties

- Universal application
- Increased permissible wall heights due to high strength
- High dowel load capacities
- Robust surface
- Impregnated for reduced water absorption
- Good coherence of structure when exposed to fire
- Flexurally ductile special gypsum core for high sound insulation
- Easy application
- Non-combustible
- Bending is possible (Knauf Blue 12,5)
- Low expansion and shrinkage when climate conditions change

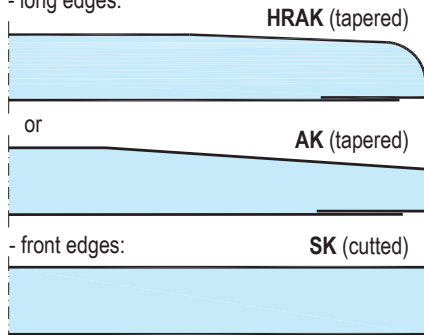
## Technical data

### ■ Dimensions (mm)



### ■ Edge types

- long edges:



### ■ Dimensional tolerances (EN 520)

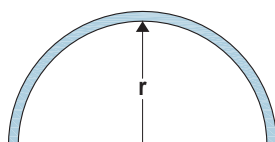
- Thickness:  $+0,5/-0,5$  mm
- Width:  $+0/-4$  mm
- Length:  $+0/-5$  mm
- Angularity:  $\leq 2,5$  mm per m board width

### ■ Minimum bending radius

Knauf Blue 12,5 mm board

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

(Note extended residence time due to hydrophobic core)



Board type:	GKFI DFH2IR	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
Total water absorption:	%	$\leq 10$ EN 520
Density:	kg/m <sup>3</sup>	$\geq 1000$ DIN 18180
Board weight:		DIN 18180
12,5 mm	kg/m <sup>2</sup>	$\geq 12,8$
15,0 mm	kg/m <sup>2</sup>	$\geq 15$
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>	$\geq 8,1$
- Transverse direction:	N/mm <sup>2</sup>	$\geq 3,3$
■ Board thickness 15 mm		
- Longitudinal direction:	N/mm <sup>2</sup>	$\geq 6,7$
- Transverse direction:	N/mm <sup>2</sup>	$\geq 2,8$
Flexural breaking load		EN 520
■ Board thickness 12,5 mm		
- Longitudinal direction:	N	$\geq 725$
- Transverse direction:	N	$\geq 300$
■ Board thickness 15 mm		
- Longitudinal direction:	N	$\geq 870$
- Transverse direction:	N	$\geq 360$
Surface hardness (impact diameter):	mm	$\leq 15$ EN 520
Max. limit for long term temperature exposure:	°C	$\leq 50$ (short-term $\leq 60$ )

## Notes

### Application

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

Use Knauf XTN and XTB screws for fastening the boards to a timber or metal substructure. Fastening on timber is also possible with staples or nails.

### 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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