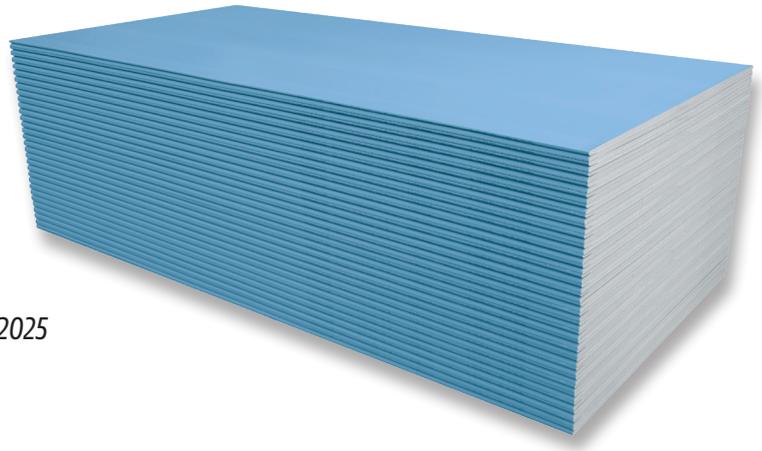


Knauf Blue

Special gypsum hard-board
for premium drywalling

Technical data sheet

05/2025



Material

Knauf Blue is an especially durable gypsum board 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.

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

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.

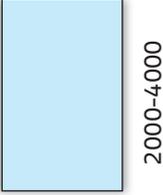
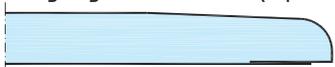
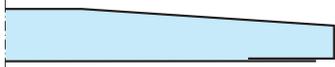
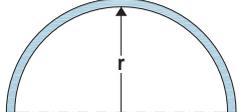
For indoor use.

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).

Technical data

<p>Dimensions (mm)</p>  <p>1200</p> <p>2000-4000</p> <p>Edge types</p> <p>- long edges: HRAK (tapered)</p>  <p>or AK (tapered)</p>  <p>- front edges: SK (cutted)</p>  <p>Dimension tolerances (EN 520)</p> <ul style="list-style-type: none"> - Thickness: +0,5/-0,5 mm - Width: +0/-4 mm - Length: +0/-5 mm - Angularity: ≤ 2,5 mm per m board width <p>Minimum bending radius Knauf Blue 12,5 mm board</p> <ul style="list-style-type: none"> - Dry bending: $r \geq 2750$ mm - Wet bending: $r \geq 1000$ mm <p>(Note extended residence time due to hydrophobic core)</p> 	Board type:		GKFI DFH2IR	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		
	Thermal conductivity λ :	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:	%	≤ 10		EN 520
	Density:	kg/m ³	≥ 1000		DIN 18180
	Board weigh:				
	12,5 mm	kg/m ²	≥ 12,8		DIN 18180
	15,0 mm	kg/m ²	≥ 15		
	Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads)				EN 1995-1-1
Board thickness 12,5 mm	N/mm ²				
- Longitudinal direction	N/mm ²	≥ 8,1			
- Transverse direction:		≥ 3,3			
Board thickness 15 mm	N/mm ²				
- Longitudinal direction:	N/mm ²	≥ 6,7			
- Transverse direction:		≥ 2,8			
Flexural breaking load				EN 520	
Board thickness 12,5 mm					
- Longitudinal direction:	N	≥ 725			
- Transverse direction:	N	≥ 300			
Board thickness 15 mm					
- Longitudinal direction:	N	≥ 870			
- Transverse direction:	N	≥ 360			
Surface hardness (impact diameter):	mm	≤ 15		EN 520	
Max. limit for long term temperature exposure:	°C	≤ 50 (short-term ≤ 60)			
The shear strength of fasteners					
Board thickness 12,5 mm:	N	≥ 940			
Board thickness 15 mm:		NPD			

Application

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

Notes

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.

Product range

Name	Size of the gypsum board			Edge type	Package pcs./palette	Art. Nr.	EAN code
	Width mm	Length mm	Thickness mm				
Knauf Blue	1200	2600	12,5	HRAK	50	00186028	4750614004289
	1200	3000	12,5	HRAK	50	00260284	4750614004272
	1200	2000/4000*	12,5	HRAK	-	00048687	4003982510082
	1200	2000	15	AK	54	00461560	4750614006351
	1200	2000/3000*	15	AK	-	00067940	5413503570713

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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.

Manufacturer: SIA Knauf