BR0003K | 07 / 2012

Knauf Moisture Resistant Wallboard

The cost-effective gypsum board for drywall construction systems in humid areas

Product Description

- Board Type
  DIN 18180 GKBI
  DIN EN 520 H2
- Board Liner Colour: Green
- Product Stamp: Blue

Delivery Form
Board Thickness 12.5mm
- 2400x1200 mm
- 2700x1200 mm
- 3000x1200 mm

Board Thickness 15mm
- 2400x1200 mm
- 2700x1200 mm
- 3000x1200 mm

Areas of Application

Knauf construction boards are used in all areas of interior finishing as a cost effective cladding in drywall construction systems for areas with moderate levels of humidity.
Areas with moderate levels of humidity in which a permanent relative humidity of ≤ 70% prevails, areas such as household bathrooms.
In addition, DIN 1052 permits installation as exterior wooden panel wall constructions in the performance class 2 range (e.g. as a subsurface thermal insulation composite system).

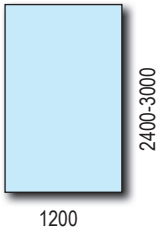
Applications:
- Ceiling Linings and suspended ceilings
- Attic Linings
- Metal stud partitions
- Wood stud partitions
- Wooden panel walls
- Furrings
- Prefab building units requiring moisture resistance

Characteristics and Benefits

- Impregnated for reduced water absorption
- Board liner is treated to inhibit mould growth
- Easy, fast and dry application
- Non-Flammable
- Lightweight, flexible construction
- Reduction in labour hours
- Sound insulation properties
- Fire protection properties
- Humidity and temperature control
- Low expansion and contraction during changes in climatic conditions
- Limitless design options
- Bendable
- Foldable with miters
- Environmentally friendly

Technical Data

■ Board Size (in mm):



■ Edge Formation

- Tapered Edge: **HRAK**

- Straight Edge: **SK**

■ Dimensional tolerances according to DIN EN 520:

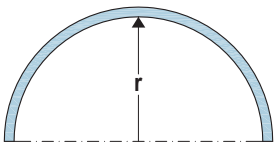
- Width:	+0 / -4 mm
- Length:	+0 / -5 mm
- Thickness:	+0.5 / -0.5mm
- Angularity:	≤2.5 mm per m board width

■ Minimum permissible bending radius

Board Thickness 12,5 mm

- Dry Bending:	r ≥ 2750 mm
- Wet Bending:	r ≥ 1000 mm

(Please Observe longer reaction time due to water repellent finish)



Board Type:		GKBI H2	DIN 18180 DIN EN 520
Reaction to Fire DIN EN 13501-1:		A2-s1,d0 (B)	DIN EN 520
Water Vapour Diffusion Resistance Value μ:			DIN EN ISO 10456
■ Dry		10	
■ Wet		4	
Thermal conductivity λ:	W/(m·K)	0,21	DIN EN ISO 10456
Expansion and Contraction Tolerance:			
■ Per 1 % change in the relative humidity:	mm/m	0,005 - 0,008	
■ Per 1 Kelvin change of temperature:	mm/m	0,013 - 0,02	
Water Absorption Capacity (Total):	%	≤ 10	DIN EN 520
Nominal Gross Density:	kg/m³	800 (±10%)	DIN 18180
Nominal Board Weights			DIN 18180
■ Board Thickness 12,5 mm:	kg/m²	≥ 10	
■ Board Thickness 15 mm:	kg/m²	≥ 12	
Characteristic Compressive Strength $f_{c,90,k}$ (Board Stress):	N/mm²	≥ 3,5	DIN 1052
Characteristic Bending Tensile strength $f_{m,k}$ (Board Stress)			DIN 1052
■ Board Thickness 12,5 mm			
- Longitudinal direction:	N/mm²	≥ 6,5	
- Transverse direction:	N/mm²	≥ 2,0	
Average E Module E_{mean} (Boardstrength)			DIN 1052
■ Longitudinal direction:	N/mm²	≥ 2800	
■ Transverse direction:	N/mm²	≥ 2200	
Bending fracture load			DIN 18180
■ Board Thickness 12,5 mm:			
- Longitudinal direction:	N	≥ 610	
- Transverse direction:	N	≥ 210	
Upper limit for long term exposure to high temperatures °C:		≤ 50 (short term up to 60)	

Notes

Application

Application is carried out in accordance with the recognised standards and the Knauf Technical Data Sheets of each drywall system.

Storage

Store in a dry area on board pallets

Disposal

Waste code number (AVV-Code):
17 08 02
17 09 04

For more information on Knauf and Knauf products follow these links:

- Knauf home page
- Gypsum as a Building Material
- Environmental Management
- Quality Management
- Reference Buildings
- Knauf Aquapanel
- Exterior Wall