



Drywall Systems

K716F.de

Product Data Sheet

2017-07

GKFI - DIN 18180 DFH2IR - EN 520

Diamant GKFI 12.5 / 15

Special gypsum board for premium drywalling

Product description

- Board type
DIN 18180
EN 520
- Colour of board liner
- Rear side marking

Storage

Store boards on board 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 bears the CE marking.

Properties and added value

- Universal application
- Increased permissible wall heights due to high strength
- High dowel load capacity

GKFI
DFH2IR
blue
red

- Robust surfaces
- 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 possible (Diamant GKFI 12.5)

Field of application

Diamant GKFI 12.5 / 15 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 moderate humidity. Rooms with moderate humidity are rooms with a constant relative air humidity of ≤ 70 % (e.g. domestic bathrooms).

Special gypsum board for premium drywalling

Suitable for the following systems:

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

Application

Installation

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

Note

Application should be undertaken in accordance to the applicable standards and acc. to the relevant Knauf System Data Sheets for drywall systems.

Technical data

Description	Unit	Diamant GKFI 12.5	Diamant GKFI 15	Standard
Board type Germany	–	GKFI	GKFI	DIN 18180
Board type European	–	DFH2IR	DFH2IR	EN 520
Reaction to fire EN 13501-1	Class	A2-s1, d0 (B)	A2-s1, d0 (B)	EN 520
Board weight (nominal)	kg/m ²	approx. 12.8	approx. 15.5	–
Long edge types with paper lining	–	Half-rounded tapered edge 		–
Front edge types	–	Cut edges 		–
Width dimensional tolerance	mm	+0 / -4	+0 / -4	EN 520
Length dimensional tolerance	mm	+0 / -5	+0 / -5	EN 520
Thickness dimensional tolerance	mm	+0.5 / -0.5	+0.5 / -0.5	EN 520
Angularity dimensional tolerance	mm per m board width	≤ 2.5	≤ 2.5	EN 520
Bending radius dry	mm	r ≥ 2750	–	–
Bending radius wet (Note extended residence time due to hydrophobic core)	mm	r ≥ 1000	–	–
Water vapour resistance factor μ dry	–	10	10	EN ISO 10456
Water vapour resistance factor μ wet	–	4	4	EN ISO 10456
Thermal conductivity λ	W/(m·K)	0.27	0.27	EN 12664
Shrinkage and expansion per 1 % change of relative air humidity	mm/m	0.005 – 0.008	0.005 – 0.008	–
Shrinkage and expansion per 1 Kelvin change of temperature	mm/m	0.013 – 0.02	0.013 – 0.02	–
Total water absorption	%	≤ 10	≤ 10	EN 520
Density	kg/m ³	≥ 1000	≥ 1000	–
Flexural breaking load longitudinal direction	N	≥ 725	≥ 870	EN 520
Flexural breaking load transverse direction	N	≥ 300	≥ 360	EN 520
Surface hardness (impact diameter)	mm Ø	≤ 15	≤ 15	EN 520
Long term temperature exposure (max. limit)	°C	≤ 50	≤ 50	–

Product range

Description	Width mm	Length mm	Thickness mm	Delivery weight kg/m ²	Packaging unit	Material number	EAN
Diamant GKFI 12.5	1250	2000	12.5	approx. 13	40 pieces / pallet 100 m ² / pallet	00072184	4003982182364
	1250	2500	12.5	approx. 13	40 pieces / pallet 125 m ² / pallet	00009478	4003982182395
Diamant GKFI 15	1250	2000	15.0	approx. 15.6	40 pieces / pallet 100 m ² / pallet	00072188	4003982182388
	1250	2500	15.0	approx. 15.6	40 pieces / pallet 125 m ² / pallet	00072225	4003982182418



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Knauf Direct
Technical Advisory Service:

▶ knauf-direkt@knauf.de

▶ www.knauf.de

Knauf Gips KG Am Bahnhof 7, 97346 Iphofen, Germany

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