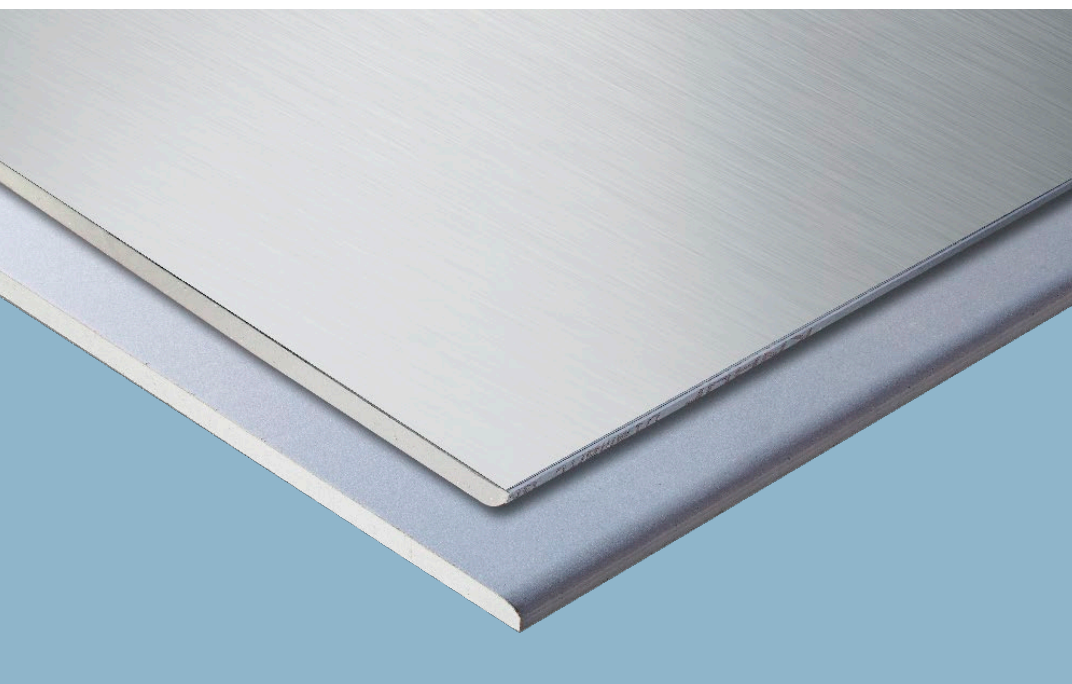


Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.



Drywall Systems

K730.de

Product Data Sheet

2020-04



Diamant Steel GKFI

Robust All-Rounder with Sheet-Metal Lamination

Product description

Diamant Steel GKFI is a Diamant board with sheet steel lamination.

- Board type
 - DIN 18180 (raw board)
 - EN 520 (raw board)
 - EN 14190 (Diamant Steel GKFI)
- Sheet-metal lamination
- Colour of board liner

GKFI
DFH2IR
Procedure g
0.4 mm
blue

Storage

Store boards on board pallets in a dry environment.

Quality

In compliance with EN 14190, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Simple installation of cladding and sheet metal lining in a single step
- Everything from a single source
- Enhanced dowel load capacity
- Robust surfaces
- Impregnated for reduced water absorption
- Good coherence of structure when exposed to fire
- Flexurally ductile special gypsum core for high sound insulation
- Non-combustible

Robust All-Rounder with Sheet-Metal Lamination

Field of application

Diamant Steel GKFI is used as cladding for fire wall systems and burglar-retardant partition systems. The full surface sheet metal lamination makes enhanced cantilever loads possible.

Diamant stands for enhanced sound insulation and fire resistance with requirements on mechanical resistance and use in rooms with moderately high humidity. Rooms with moderately high humidity are rooms with a constant relative day-to-day air humidity of $\leq 70\%$ (e.g. domestic bathrooms).

Suitable for the following systems:

- Fire walls
- Burglar-retardant partition systems RC2 and RC3
- Metal stud partitions with enhanced cantilever loads
- As a surface traverse for flexible attachment in the entire wall area, even with subsequent installation

Technical data

Description	Standard	Unit	Value
Board type Germany (raw board)	DIN 18180	–	GKFI
Board type European (raw board)	EN 520	–	DFH2IR
Board type European (Diamant Steel GKFI)	EN 14190	–	g
Reaction to fire EN 13501-1	EN 14190	Class	A2-s1, d0 (C.3)
Board weight (raw board)	–	kg/m ²	approx. 12.8
Board weight	–	kg/m ²	approx. 16.0
Density (raw board)	–	kg/m ³	≥ 1000
Long edges with paper lining	–	–	Half-rounded tapered edge (HRAK)
Front edge types	–	–	Front cut square edge (SSK)
Width dimensional tolerance	EN 520	mm	+0 / -4
Length dimensional tolerance	EN 520	mm	+0 / -5
Thickness dimensional tolerance	EN 520	mm	+0.5 / -0.5
Angularity dimensional tolerance	EN 520	mm per m board width	≤ 2.5
Thermal conductivity λ (raw board)	EN 12664	W/(m·K)	0.27
Shrinkage and expansion per 1 % change of relative air humidity (raw board)	–	mm/m	0.005 – 0.008
Shrinkage and expansion per 1 Kelvin change of temperature (raw board)	–	mm/m	0.013 – 0.02
Flexural breaking load longitudinal direction (raw board)	EN 520	N	≥ 725
Flexural breaking load transverse direction (raw board)	EN 520	N	≥ 300

Application

Application

Cut Diamant Steel GKFI with the pendulum jigsaw/circular saw.

For fixing the boards on metal stud framework use Diamant Screws XTB with cutting points.

Note

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

Wear suitable gloves and goggles when installing Diamant Steel GKFI. Refer to the safety data sheet.

Description	Standard	Unit	Value
Surface hardness (impact diameter)	EN 520	mm Ø	≤ 15
Long term temperature exposure (max. limit)	–	°C	≤ 50

Product range

Description	Width mm	Length mm	Thickness mm	Delivery weight kg/m ²	Packaging unit	Material number	EAN
Diamant Steel GKFI 12.5 + 0.4	1250	1875	12.9	approx. 16.2	24 pieces / pallet 56.3 m ² / pallet	00673640	4003982519276
	1250	2500	12.9	approx. 16.2	24 pieces / pallet 75 m ² / pallet	00638066	4003982462671

Sustainability

Short description	Unit	Value
Requirements of the German AgBB-scheme (raw board)	–	fulfilled
Complies with the French emission class (raw board)	–	A+
Recycling share post-consumer (raw board)	%	Approx. 4
Recycling share pre-consumer (raw board)	%	Approx. 25
Origin of resources (raw board) 25 %	km	250
Origin of resources (raw board) 50 %	km	25
Environmental product declaration (raw board)	EPD-BVG-KNG-20160122-IAE1-DE	



Observe safety data sheets!

For safety data sheets and CE marking see pd.knauf.de



Videos for Knauf systems and products can be found under the following link:

www.youtube.com/knauf



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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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