

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical 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 Integral KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.



GIFAtec

K841.de

Technical Sheet

02/2024

GIFAfloor FHB Panels

Gypsum fibre elements for hollow floor systems

Product description

GIFAfloor FHB Panels are surface-primed gypsum fibreboards with tongue-and-groove edges.

All top coverings can be easily applied or laid.

Storage

GIFAfloor FHB Panels must be stored flat, dry and protected from the weather.

Quality

The product is subject to continuous factory production control.

Properties and added value

- Non-combustible
- Suitable for indoor use according to AgBB scheme. (Eurofins certificate)
- Building biology recommended (IBR award certificate)
- High strength
- High load-bearing capacity
- High dimensional stability
- Easy to lay and quick to walk on



Note on use

This document contains information that applies exclusively to the GIFAfloor FHB Panels manufactured according to EN 15283-2.

References to other documents

- F18.de Knauf GIFAfloor hollow floor

Machining and further processing

GIFAfloor FHB Panels can be machined with the usual machine tools and with the usual machine tools and tools for wood-based material processing.

Product range

Description	Width mm	Length mm	Thickness mm	Packaging Unit		Article number	EAN
				Pieces/Pallet	Weight [kg] / Pallet		
GIFAfloor FHB 25	600	1200	25	35	1,027	31256	4003982182814
		600		70		63565	4003982257055
GIFAfloor FHB 28	600	1200	28	30	986	31545	4003982207449
		600		60		50980	4003982257062
GIFAfloor FHB 32	600	1200	32	25	940	31326	4003982157621
		600		50		31559	4003982257079
GIFAfloor FHB 38	600	1200	38	20	893	88635	4003982207456
		600		40		88636	4003982257093

Technical data

Properties	Value	Unit	Standard
Reaction to fire	A1 (non-combustible)	–	EN 13501-1
Edge shape	Tongue and groove	–	–
Dimensional tolerance width	+0.5 / -0.5	mm	EN 15283-2
Dimensional tolerance length	+0.5 / -0.5	mm	EN 15283-2
Dimensional tolerance thickness	+0.2 / -0.2	mm	EN 15283-2
Density	≥ 1500	kg/m ³	EN 15283-2
Surface hardness (Brinell)	≥ 40	N/mm ²	Internal specification
Adhesive tensile strength	≥ 1.0	N/mm ²	EN 13892-8
Electrostatic resistance	≥ 1·10 ⁷	Ω	EN 1081
Specific heat capacity c	> 1000	J/(kg·K)	–
Design thermal conductivity λ	0.56	W/(m·K)	EN 12524
Measured thermal resistance R ₁₀	0.0906	(m ² ·K)/W	EN 12664
Coefficient of thermal expansion α	12.9·10 ⁻⁶	1/K	–
Change in length with temperature change	≤ 0.02	mm/(m·K)	Internal specification
Change in length with change in rel. humidity by 30 % at 20 °C	≤ 0.6	mm/m	Internal specification
Hygrothermal conditions of installation (stationary)	+10 °C to +35 °C approx. 45 – 75 % rel. humidity	–	–
Hygrothermal conditions of use (stationary)	-10 °C to +35 °C approx. 35 – 75 % rel. humidity	–	–
Water vapour diffusion resistance coefficient μ	30/50	–	–
Water absorption capacity surface (Cobb test)	< 300	g/m ²	EN 15283-2
Flexural tensile strength	≥ 8.7	N/mm ²	–

Sustainability and environment

Description	Value	Unit
Requirements acc. to AgBB-scheme for indoor use	Complies	–
French emission class	A+	–
IBR Award certificate	Tested and recommended	–
Eurofins Indoor Air Comfort Gold	Erfüllt	–
Post-Consumer recycling share (mean value)	Approx. 10	%
Pre-Consumer recycling share (mean value)	Approx. 40	%
Environmental Product Declaration	EPD - IBU	EPD-KNA-20220095-CAB3-EN
	FDES - Inies	20220930847

Information on sustainability of Knauf GIFAfloor

Building assessment systems ensure the sustainable quality of buildings and structural facilities through a detailed evaluation of ecological, economic, social, functional and technical aspects.

In Germany, the following certification systems are particularly relevant:

- **DGNB System**

German seal of quality for sustainable building of the DGNB (German Sustainable Building Council)

- **BNB**

(Sustainable Building Rating System)

- **LEED**

(Leadership in Energy and Environmental Design).

Knauf products and Knauf access flooring materials can positively influence numerous criteria here.

DGNB/BNB

Ecological quality

- *Criterion: Life cycle assessment of the building*

Relevant environmental data are provided in the EPD.

- *Criterion: Risks for the local environment*

Building material Gypsum as an ecological material

Economic quality

- *Criterion: Building-related costs in the life cycle*

Economic Knauf dry construction

Technical quality

- *Criteria: Deconstruction and recyclability*

Possible with Knauf dry construction

LEED

Materials and Resources

- *Building Life-Cycle Impact Reduction*

Relevant data are provided in the EPD.

- *Environmental Product Declarations*

Relevant data are provided in the EPD.

- *Scouring of Raw Materials*

Recycled content in Knauf GIFAfloor.

Indoor Environmental Quality

- *Low Emitting Materials*

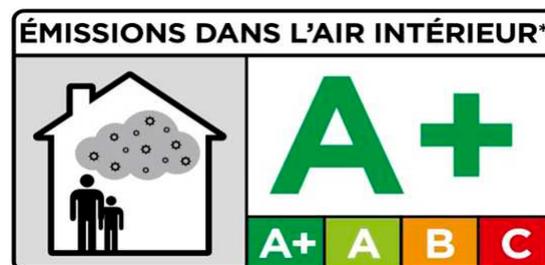
Knauf products are subject to regular VOC measurements.

Disposal

GIFAfloor waste is subject to waste code 17 08 02 - gypsum based construction material or no. 17 09 04 mixed construction and demolition wastes which are not contaminated by hazardous substances.

Building biology

Knauf GIFAfloor has been regularly tested by the IBR (Institut für Baubiologie Rosenheim) since 2003 and has since then been uninterruptedly certified by the Building Biology Recommendation Certificate. Knauf GIFAfloor meets the requirements of the French VOC class A+. Eurofins Product Testing A/S, Galten (DK) certifies that GIFAfloor complies with the required values for VOC emissions in Europe. GIFAfloor meets the requirements of Indoor Air Comfort Gold.



Observe safety data sheet!
For safety data sheet see
pd.knauf.de



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Knauf Direct
Technical Advisory Service:

▶ knauf-direkt@knauf.com

▶ www.knauf-integral.de

Knauf Integral KG Am Bahnhof 16, 74589 Satteldorf, Germany

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