

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

K847.de

Technical sheet

08/2023

GIFAfloor DB green

Raised floor elements

Product description

GIFAfloor DB green are surface-primed, ready-to-install gypsum fibre panels for use as load-bearing elements in raised floor systems. The monolithic boards are free from other components. Due to its high strength, the gypsum fibre material GIFAtec also allows thinner load-bearing layers in raised floor systems than alternative materials.

Fundamentals from the processing of wood-based materials can be applied to the processing of GIFAfloor DB green.

Storage

GIFAfloor DB green should be stored in a dry place 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
- Tested creep strength
- High dimensional stability
- Suitable for loose lying coverings



Raised floor elements

Notice of use

This document contains information that applies exclusively to GIFAfloor DB green elements produced in accordance with EN 15283-2. System tests were carried out according to EN 12825.

Area of application

Knauf GIFAfloor DB green raised floors are used indoors, e. g. to accommodate all types of building services installations. Depending on the choice of the base layer and supports, they are suitable for almost all areas of application with loose textile coverings, e. g. office, commercial, hotel, meeting, exhibition and airport buildings.

Product range

Description	Width mm	Length mm	Thickness mm	Breaking load N	Packaging Unit		Article number	EAN
					Pcs/Pallet	Weight [kg]/Pallet		
GIFAfloor DB 30 green	600	600	30	≥ 4000	50	869	612087	4003982426734
GIFAfloor DB 36 green			36	≥ 6000		1064	629409	4003982456991
GIFAfloor DB 40 green			40	≥ 8000	40	927	629413	4003982457011

Breaking strength values were determined on steel cylinders (Ø 90 mm). raw panel test grid size 600 x 600 mm, test stamp 25 x 25 mm. Test point was the weakest panel point.

Technical data

Description	Value	Unit	Standard
Reaction to fire	A1 (non combustible)	–	EN 13501-1
Edge finish	ASK	–	EN 15283-2
Dimensional tolerance width	+0,4 / -0,4	mm	EN 12825
Dimensional tolerance length	+0,4 / -0,4	mm	EN 12825
Dimensional tolerance thickness	+0,2 / -0,2	mm	EN 15283-2
Density	1600 ± 5 %	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
Specific heat capacity c	> 1000	J/(kg·K)	–
Thermal conductivity λ	0.25	W/mK	EN ISO 10456
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	–	Internal specification
Hygrothermal conditions of use (stationary)	-10 °C to +35 °C approx. 35 – 75 % rel. humidity	–	Internal specification
Water vapour diffusion resistance coefficient μ	10/4	–	EN ISO 10456
Water absorption capacity surface (Cobb-test)	< 300	g/m ²	EN 15283-2
Earth leakage resistance	≥ 1·10 ⁷	Ω	EN 1081
Fatigue strength for vertical dynamic load changes with max. working load	≥ 100000	Load changes	EN 13964

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			Complies	–
Post-Consumer recycling share (mean value)			approx. 10	%
Pre-Consumer recycling share (mean value)			approx. 40	%
Environmental Product Declaration	EPD - IBU	GIFAfloor DB 30 green	EPD-KNA-20220092-CAB1-EN	–
		GIFAfloor DB 36 green	EPD-KNA-20220093-CAB1-EN	
		GIFAfloor DB 40 green	EPD-KNA-20220094-CAB1-EN	
	FDES - Inies	GIFAfloor DB 30 green	20220930843	–
		GIFAfloor DB 36 green	20220930844	
		GIFAfloor DB 40 green	20220930845	

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 of particular relevance.

■ **DGNB System**

German seal of approval for sustainable building from the DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen/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 stored 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

- Criterion: Deconstruction and recyclability
Possible with Knauf dry construction.

LEED

Materials and Resources

- Building Life-Cycle Impact Reduction:
Relevant data are stored in the EPD.
- Environmental Product Declarations:
Relevant data are stored in the EPD.
- Sourcing of Raw Materials:
Recycling content in Knauf GIFAfloor.

Indoor Environmental Quality

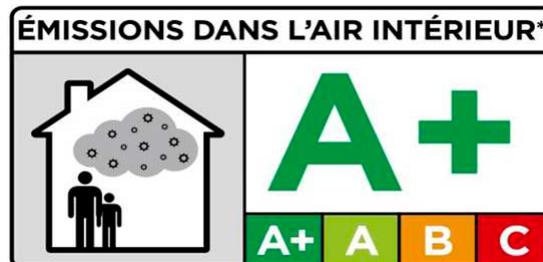
- Low Emitting Materials:
Knauf products are subject to regular VOC measurements

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 and CE marking see
pd.knauf.de



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