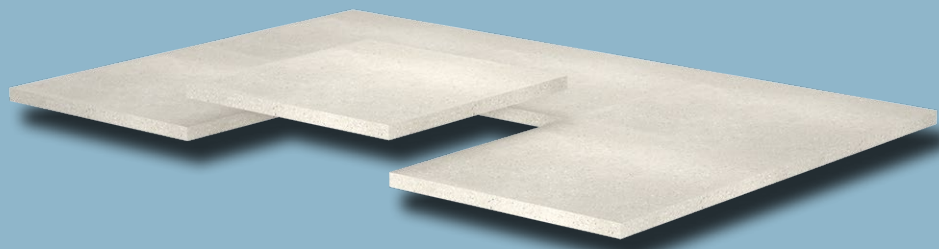


Note on English translation / Hinweise zur englischen Fassung

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

02/2022

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	50	1064	629409	4003982456991
GIFAfloor DB 40 green			40	≥ 8000	40	927	629413	4003982457011

Breaking strength values were determined on steel cylinder supports (Ø 90 mm). raw panel test grid size 600 x 600 mm. test stamp 25 x 25 mm. The 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	+2.0 / -0.5	mm	Internal specification
Dimensional tolerance length	+2.0 / -0.5	mm	Internal specification
Dimensional tolerance thickness	+2.0 / -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
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. payload	≥ 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 6.0	Complies	–
Post-Consumer recycling share (mean value)	approx. 10	%
Pre-Consumer recycling share (mean value)	approx. 40	%
Environmental Product Declaration	EPD-BVG-20140069-IAG1-DE	–

Information on sustainability of Knauf GIFAboard

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 GIFAboard

Indoor Environmental Quality

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

Disposal

GIFAboard 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.



Institut für **Baubiologie** Rosenheim GmbH

Certificate of Award

Based on the excellent test results, the Seal of Approval



is hereby awarded to



Knauf Integral KG
D-74589 Satteldorf

for the tested product

Knauf gypsum fibreboards

(Certification-No. 3021 - 1190)

by the Institut für Baubiologie Rosenheim GmbH.




Reimut Hentschel, Managing Director
Rosenheim, February 2021

The Seal of Approval is awarded for 2 years. In the interest of consumers, follow-up testing of the products must be performed in due time before the Seal of Approval expires. The applicant will have to reapply for these tests.

IBR Institut für Baubiologie GmbH D-83022 Rosenheim Münchener Straße 18
Tel. +49 (0)8031 / 3675-0 Fax +49 (0)8031 / 3675-30 www.baubiologie-ibr.de

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 6.0.



Attestation

European National Regulations on VOC emissions

On 27 February 2018, Eurofins Product Testing A/S received a sample of a ceiling panel with the product name:

GIFAboard and GIFAfloor


supplied by

Knauf Integral KG

The emissions were tested according to the regulations in Germany, France and Belgium. The test is in accordance with German AgBB (2015) and the guidelines of the DIBt (2010), the French legislation of 2011 on emission classes as specified in decree no 2011-321, and the Belgian Royal Decree C-2014/24239. Sampling, testing and evaluation were performed according to EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9, ISO 16000-11 in the latest versions, see the test report no. 392-2018-00088701_A_DE.


The formaldehyde test result is similar to a test obtained with EN 717-1.


Evaluation of the emission test result according to Indoor Air Comfort 6.0:

- French VOC class: 
- Carcinogenic substances were not detectable after 3 and after 28 days.
- The total of all VOC ("TVOC") and the sum of all VOC (AgBB) after 3 days both were below the limit of 10 000 µg/m³.
- The total of all VOC ("TVOC") and the sum of all VOC (AgBB) after 28 days both were below the limit of 1000 µg/m³.
- The total of all SVOC ("TSVOC") after 28 days was below the limit of 100 µg/m³.
- After 28 days the values R₀ and R₉ were below the limit of 1.
- The sum of VOC without LCl₀ after 28 days was below the limit of 100 µg/m³.
- Formaldehyde after 28 days was below the limit of 60 µg/m³.

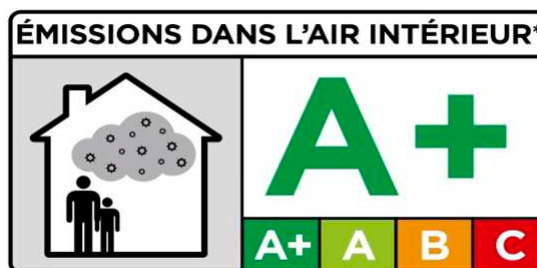
The tested product complies with referenced European regulations as of 13 April 2018

13 April 2018


 Nanna Boholm
Chemist


 Rasmus Stengård Christensen
Analytical Service Manager, MSc in Chemistry

Eurofins Product Testing A/S • Smedeskovvej 38, 8464 Galten, Denmark • Tel. +45 70 22 42 76
www.product-testing.eurofins.com



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

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