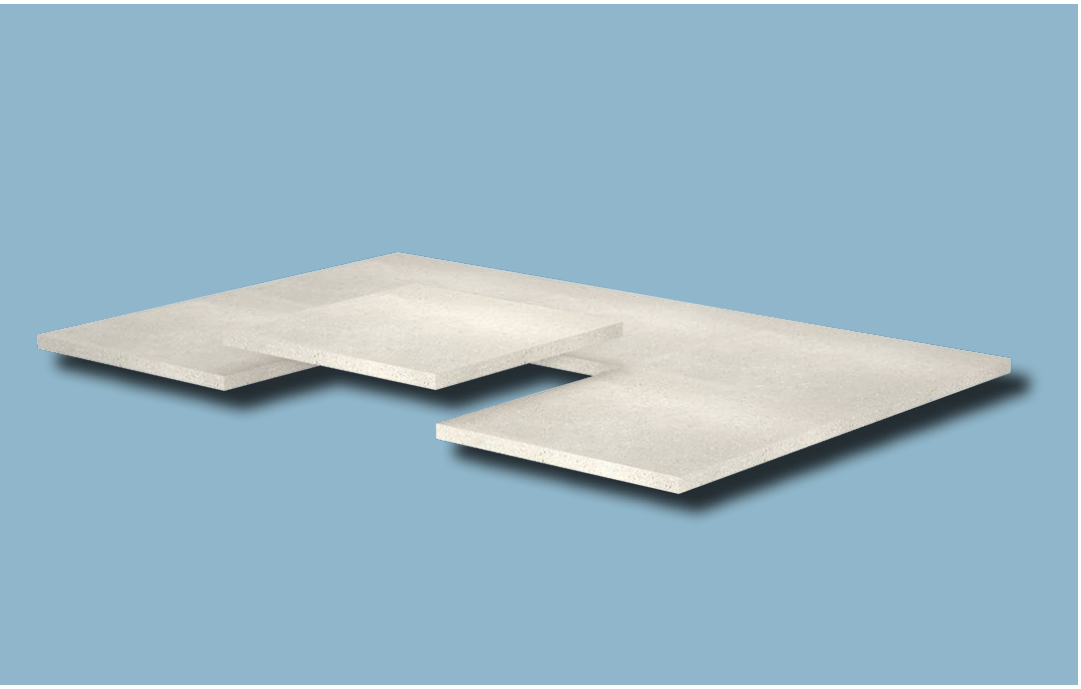
Note on English translation / Hinweise zur englischen Fassung
This is a translation of the technical data sheet valid in Germany.
All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, 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

K843u.de

Product Data Sheet 10/2021

GIFAfloor DB U raw panels

Core panels for raised access floor elements

Product description

GIFAfloor DB U are gypsum fibre core panels for the industrial production of raised access floor elements. The high strength of the material allows thinner support layers compared to elements made from other materials.

The principles of processing timber based panels can be applied when working with GIFAfloor DB U.
GIFAfloor DB U can carry many different kinds of floor coverings.

Quality

The product underlies constant factory production control.

Storage

GIFAfloor DB U raw panels should be stored in a dry location and protected against the effects of weather.

Properties and added value

- Non-combustible
- Suitable for indoor use acc. to German AgBB-scheme (Eurofins certified)
- Tested environmental safety (IBR certificate)
- High tensile strength
- High loading capacity
- Tested durability
- High dimensional stability
- Good to process
- Suitable for all types of floor coverings

Usage instruction

This document contains information exclusively valid for GIFAfloor DB U core panels (raised access floor core panels) manufactured in accordance to EN 15283-2. Technical changes will result by processing the GIFAfloor DB U core panel. Therefore further tests on the finished product e. g. building material classification may be necessary.

For the processed GIFAfloor DB U core panals EN 14190 „processed Gypsum board“ has to be applied. The CE-marking has to be provided by the system supplier or raised access floor manufacturer acc. to EN 14190. System tests have to be carried out by the system provider in accordance to EN 12825.

Product range

Product	Width mm	Length mm	Thickness mm	Ultimate load N	Packaging unit Pieces/pallet	Packaging unit Weight [kg]/pallet	Product code	EAN
GIFAfloor DB 28 U	604	604	28	≥ 1600	60	769	634468	4003982461056
GIFAfloor DB 30 U	604	604	30	≥ 2000	60	823	634470	4003982461001

Ultimate load values were determined on steel cylinders (Ø 90 mm), test grid dimension 600x600 mm, test stamp 25x25 mm, test point on weakest board edge.

Technical data

Description	Value	Unit	Standard
Reaction to fire	A1 (Non-combustible)	–	EN 13501-1
Edge formation	VK	–	DIN 18180
Dimensional tolerance width	+2 / -0,5	mm	Internal specification
Dimensional tolerance length	+2 / -0,5	mm	Internal specification
Dimensional tolerance thickness	± 0,2	mm	EN 15283-2
Dimensional tolerance torsion	≤ 1,0	mm	EN 12825
Dimensional tolerance angular accuracy	≤ 1,2	mm	Internal specification
Dimensional tolerance straightness of the edges	± 0,6	mm	EN 12825
Dimensional tolerance Diagonal accuracy	± 1,0	mm	EN 12825
Density	≥ 1100	kg/m^3	EN 15238-2
Surface hardness (Brinell)	≥ 20	N/mm^2	Internal specification
Pull of bond strength	≥ 0,6	N/mm^2	EN 13892-8
Specific heat capacity c	> 1000	J(kg·K)	–
Thermal expansion coefficient α	12,9·10^{-6}	1/K	–
Length change at temperature change	≤ 0,02	mm/(m·K)	Internal specification
Length change at change of rel. air humidity by 30 % at 20 °C	≤ 0,6	mm/m	Internal specification
Hygrothermal installation conditions (stationary)	+10 °C to +35 °C approx. 45 – 75 % rel. humidity	–	Internal specification
Hygrothermal using conditions (stationary)	+10 °C to +35 °C approx. 35 – 75 % rel. humidity	–	Internal specification
Surface water absorption capacity	< 300	g/m^2	EN 15283-2

Sustainability

Description	Value	Unit
Suitable for indoor use acc. to German AgBB-scheme	Fulfilled	–
French emission class	A+	–
IBR Certificate	Tested and approved	–
Eurofins Indoor Air Comfort 6.0	Fulfilled	–
Recycled content post-Consumer (average)	approx. 11	%
Recyclinganteil pre-Consumer (average)	approx. 41	%
Environmental Product Declaration	EPD-BVG-20140069-IAG1-DE	–

Information on sustainability of Knauf GIFAfloor

Building assessment systems ensure the sustainable quality of buildings and constructional structures by a detailed assessment of ecological, economic, social, functional and technical aspects.
In Germany, the following certification systems are of particular relevance:

- **DGNB System**
  Deutsches Gütesiegel Nachhaltiges Bauen der DGNB (German association for environmentally sustainable building)
- **BNB**
  (Bewertungssystem Nachhaltiges Bauen, Quality rating system for environmentally sustainable building)
- **LEED**
  Leadership in Energy and Environmental Design).Knauf products and Knauf precast tile or slab flooring can positively influence many of these criteria.

DGNB/BNB

Ecological quality

- Criterion: Risks for the local environment The relevant environmental data are contained in the EPD for gypsum products

Economic quality

- Criterion: Building related life-cycle costs, Cost-effective Knauf Drywalling Sociocultural and functional quality
- Criterion: Suitability for conversion, Flexible Knauf Drywalling

Technical quality

- Criterion: Fire protection
  Comprehensive fire protection know-how
- Criterion: Sound insulation
  Exceeding the demands of the standard with Knauf sound protection
- Criterion: Ease of dismantling and recycling, Knauf Drywalling is fully compliant

LEED

Materials and Resources

- Credit: Recycled Content
  Recycled content in Knauf boards, e. g. FGD gypsum
- Credit: Regional Materials
  Short transport routes provided by the extensive network of Knauf manufacturing facilities.
  Detailed information on request and online at
  www.knauf.com

Disposal

GIFAfloor waste is classified with the waste code number 17 08 02 gypsum-based construction materials or 17 09 04 mixed construction and demolition wastes, not contaminated with hazardous substances.

Eco-friendliness

Knauf GIFAfloor has an eco-friendly approval since March 2003 after a certificate was awarded by the IBR - Institute for building biology, Rosenheim (D).

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

The eurofins-institute Galten (DK) determined the suitability for indoor use in accordance with the DIBt certification guidelines.

eurofins

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: A+
- 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 R_D and R_B were below the limit of 1.
- The sum of VOC without LCI_D 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 Stengaard 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

The App Knauf Infothek provides all the current information and documents from Knauf Gips KG at any time and in every location in a clear and comfortable way.
knauf.de/infothek

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The technical specifications provided in this product data sheet apply for GIFAfloor DB U core panels only. System values of raised access floor systems using GIFAfloor DB U core panels have to provided by the system supplier or raised access floor manufacturer.