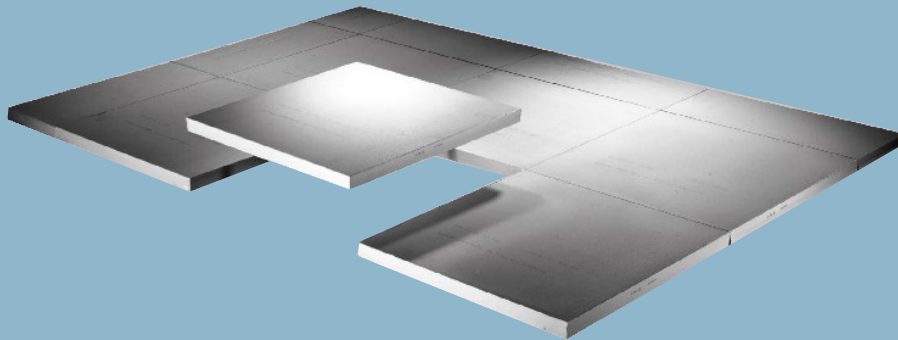


Note on English translation / Hinweise zur englischen Fassung

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

K843a.de

Technical Sheet

11/2022

GIFAfloor DB alpha raw panels

Core panel for raised access floor elements

Product description

GIFAfloor DB alpha 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 alpha.

GIFAfloor DB alpha can carry many different kinds of floor coverings.

Quality

The product undergoes constant factory production control.

Storage

GIFAfloor DB alpha 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, high quality milling pattern
- Suitable for all types of floor coverings

Core panel for raised access floor elements

Usage instruction

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

For the processed GIFAfloor DB alpha core panels 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	Weight [kg]/pallet	Product code	EAN
GIFAfloor DB 28 alpha	604	604	28	≥ 4000	60	1010	634537	4003982461124
GIFAfloor DB 30 alpha			30	≥ 4400		1081	634539	4003982461131
GIFAfloor DB 34 alpha			34	≥ 6000	50	1022	634542	4003982461155
GIFAfloor DB 36 alpha			36	≥ 6400		1081	634543	4003982461162
GIFAfloor DB 38 alpha			38	≥ 8000		1140	634544	4003982461179
GIFAfloor DB 40 alpha			40	≥ 9000	40	962	634545	4003982461186

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

Technical data

Description	Value	Unit	Standard
Building material class	A1 (Non-combustible)	–	EN 13501-1
Edge design	VK	–	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	+0.2 / -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 / -0.6	mm	EN 12825
Dimensional tolerance Diagonal accuracy	+1.0 / -1.0	mm	EN 12825
Density	approx. 1600 (± 5 %)	kg/m ³	EN 15283-2
Surface hardness (Brinell)	≥ 40	N/mm ²	Internal specification
Adhesive pull strength	≥ 1.0	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
Electrostatic conductivity	≥ 1·10 ⁷	Ω	EN 1081
Durability for vertical dynamic load change with maximum load	≥ 100000	Alternating load	According to EN 13964

Sustainability

Description	Value	Unit
Suitable for indoor use acc. to German AgBB-scheme	Complies	–
French emission class	A+	–
IBR award certificate	Tested and approved	–
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-20220090-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. 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.



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



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 R₉₀ were below the limit of 1.
- The sum of VOC without LCI₀ 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 • Smedskovvej 38, 8464 Galten, Denmark • Tel. +45 70 22 42 76
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ÉMISSIONS DANS L'AIR INTÉRIEUR*



A+

A+
A
B
C




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



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