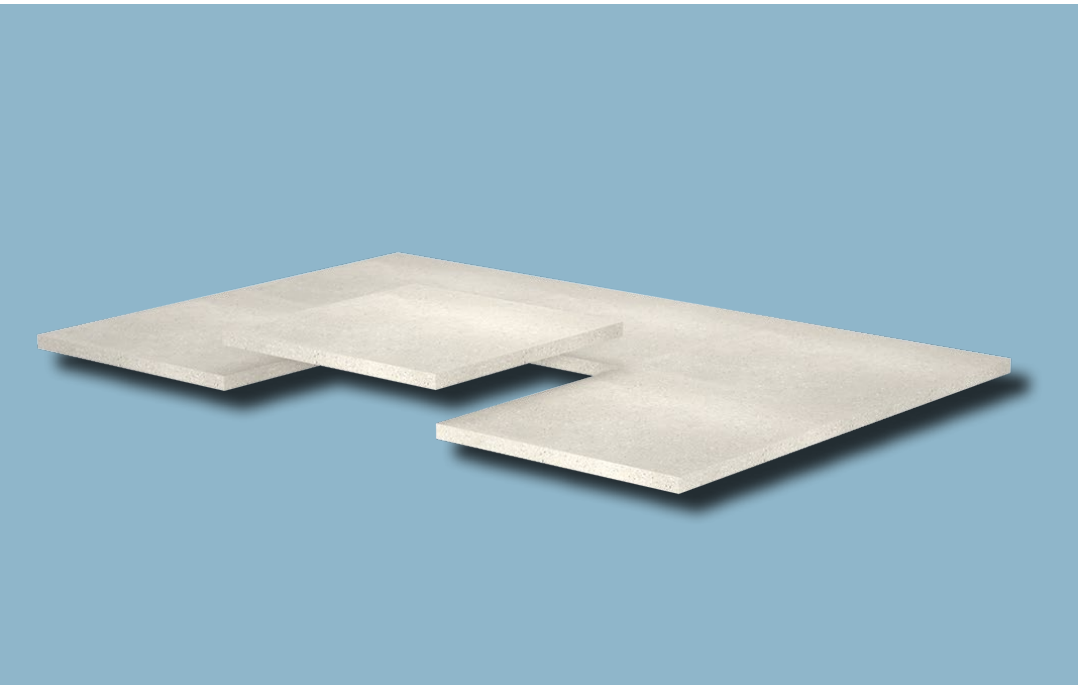


GIFAtec

K843b.de

Technical sheet 04/2022

GIFAfloor A2 DB U raw panels

Material panels for raised floor elements

Product description

GIFAfloor A2 DB U raw panels are surface-primed gypsum fibre boards for further industrial processing into raised floor elements.

Basic principles from wood-based material processing can be transferred to the processing of GIFAfloor A2 DB U blanks. GIFAfloor A2 DB U raw panels can be provided with a variety of coverings.

Quality

The product is subject to continuous factory production control.

Storage

GIFAfloor A2 DB U raw panels must be stored in a dry place and protected from the weather.

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 process
- Suitable for most floor coverings

Instructions for use

This document contains information that applies exclusively to GIFAfloor A2 DB U raw panels (raised floor blank panels) manufactured according to EN 15283-2. Further processing may result in technical changes to GIFAfloor A2 DB U raw panels. Thus, after further processing, further tests, such as building material classification may have to be carried out on the finished product.

EN 14190 “Gypsum board products from further processing” may apply to the processed GIFAfloor A2 DB U raw panels
System tests must be carried out by the distributor according to EN 12825.

Product range

Description	Width mm	Length mm	Thickness mm
GIFAfloor A2 DB U raw panels	580 - 620	580 - 620	14 - 23

Note	For GIFAfloor A2 DB U raw panels in 15 mm thickness and in the format 606 x 606 mm, breaking load values of ≥ 600 N were determined on steel cylinder supports (Ø 90 mm) Test stamp 25 x 25 mm, test point weakest panel edge.

Technical data

Description	Value	Unit	Standard
Reaction to fire	A2-s1,d0	–	EN 13501-1
Edge finish	VK	–	EN 15238-2
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	mm	EN 15283-2
Dimensional tolerance torsion	≤ 1,0	mm	EN 12825
Dimensional tolerance angularity	≤ 2,0	mm	Internal specification
Dimensional tolerance straightness of edges	± 0,6	mm	EN 12825
Dimensional tolerance straightness on the diagonals	± 1,0	mm	EN 12825
Density	≥ 1100	kg/m^3	EN 15238-2
Surface hardness (Brinell)	≥ 20	N/mm^2	Internal specification
Adhesive tensile strength top side	≥ 0,5	N/mm^2	EN 13892-8
Specific heat capacity c	> 1000	J(kg·K)	–
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 absorption capacity surface	< 300	g/m^2	EN 15283-2

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 6.0	Complies	–
Post-Consumer recycling share (mean value)	approx. 16	%
Pre-Consumer recycling share (mean value)	approx. 13	%
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 GIFAboard 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 GIFAboard meets the requirements of the French VOC class A+. Eurofins Product Testing A/S, Galten (DK) certifies that GIFAboard complies with the required values for VOC emissions in Europe. GIFAboard meets the requirements of Indoor Air Comfort 6.0.

IBR

Institut für **Baubiologie** Rosenheim GmbH

Certificate of Award

Based on the excellent test results, the Seal of Approval

Geprüft und empfohlen – Institut für Baubiologie Rosenheim GmbH – IBR – Produkt überprüft auf VOC - Biozide - Schwermetalle und Radioaktivität

is hereby awarded to

KNAUF

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

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.

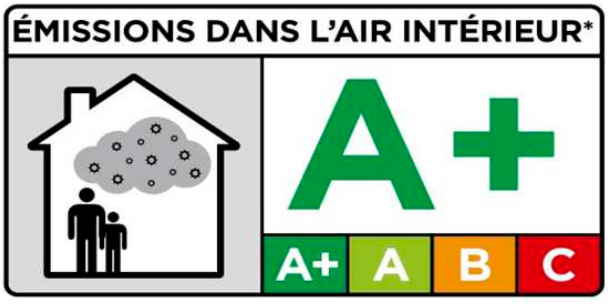
The tested product complies with referenced European regulations as of 13 April 2018

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

Knauf Direct
Technical Advisory Service:

knauf-direkt@knauf.com

www.knauf-integral.de

Knauf Integral KG Am Bahnhof 16, 74589 Satteldorf, Germany

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.