



GIFA FHB

Knauf GIFA FHB is a high density (>1500kg/m³) structural dry screed panel made from gypsum fibre, available in a range of thicknesses, with T&G edges to be bonded to form a monolithic layer, floating, fully supported or spanning grid of pedestals and joists.

Product-Data-Sheet



Areas of Application

Ideal as a raised hollow floor over pedestals (in commercial buildings). Can be used as single and double layer systems, ideal for porcelain and stone tiles bonded directly without the need for an additional decoupling layer. Can be installed over timber joists and cradles and battens (in residential) or metal/timber joists (in the modular off-site sector), as well as laid over existing solid substrate leveled.

Compliance Standards

EN 15283-2:2008+A1:2009

Key Benefits

- Tough, impact resistant, high surface hardness and compressive strength.
- Thermal Conductivity rating of 0.35 (W/mK), ideal for underfloor heating.
- Interlocking tongue and groove edge, bonded with joint adhesive, no screws required.
- Fast system install compared to traditional methods, ready for foot traffic in 12 hours, ready for covering in 24 hours (depending on the use of levelling compound).
- No water or cement required in installation.
- Optimal solution for high void height build-ups, levelling uneven substrates, cost effective and high performing.

Build on us.

Creation Date: 03/07/2024
Revision Reference: 003
Revision Date: 19/03/2026

Performance Data

Reaction to Fire (R2F)	Flexural Strength (F)	Tested Thermal Conductivity (W/mK) (EN 12664:2001)	Density (kg/m ³)	Dangerous Substances (DS)	Water Vapour Resistance Factor (μ) (EN ISO 10456)
A1	Pass	0.35	>1500	NPD	10/4

Note: NPD = No performance determined, no claim is made for this characteristic

Internal Data

Properties	Value	Units
Dimensional tolerance width	+0.5 / -0.5	mm
Dimensional tolerance length	+0.5 / -0.5	mm
Dimensional tolerance thickness	+0.2 / -0.2	mm
Surface hardness (Brinell)	≥ 40	N/mm ²
Adhesive tensile strength	≥ 1.0	N/mm ²
Flexural tensile strength	≥ 8.7	N/mm ²
Specific heat capacity	> 1000	J/(kg·K)
Measured thermal resistance	0.0906	(m ² ·K)/W
Coefficient of thermal expansion (α)	$12.9 \cdot 10^{-6}$	(1/K)
Change in length with temperature change	≤ 0.02	mm/(m·K)
Change in length with change in relative humidity by 30% at 20°C	≤ 0.6	mm/m
Hydrothermal conditions of installation (stationary)	+10 °C to +35 °C approx. 45 – 75 % RH	-
Hydrothermal conditions of use (stationary)	+10 °C to +35 °C approx. 35 – 75 % RH	-
Water vapour diffusion resistance coefficient (μ)	30/50	-
Water absorption capacity surface	< 300	g/m ²

Technical Information

Dimensions & Weights						
Thickness (mm)	Width (mm)	Length (mm)	Edge Profile	Colour	Weight (kg/m ²)	Material Number
18	600	1200	Tongue and Groove	Grey	30.6	453665
25	600	1200	Tongue and Groove	Grey	42.5	31256
28	600	1200	Tongue and Groove	Grey	47.6	31545
32	600	600	Tongue and Groove	Grey	54.4	31559
32	600	1200	Tongue and Groove	Grey	54.4	31326
38	600	600	Tongue and Groove	Grey	64.5	88636
38	600	1200	Tongue and Groove	Grey	64.5	88635

Sustainability

Recycled Content

10%

2023 average by mass, recycled paper

Recyclability

The product can be fully recycled, make sure it has no or minimal contamination from non-gypsum based materials as this will affect its recyclability.

Substances of very high Concern (SVHC)

At the time of publication, under REACH UK and REACH EU regulations this product contains no SVHC. For more information please consult the Safety Data Sheet.

Volatile Organic Compound Content (VOC)

- Emicode EC1 Plus certified for very low emissions

Storage and Handling

No special education is required for safe handling. Store flat, and dry avoiding damp conditions. Temperatures for installation to be +10 °C to +35 °C, approximately 45 – 75 % relative humidity.

Packaging

Cardboard pallet hood, with a PE pallet strap, on a wooden pallet.

Service Life

50 years.

Disposal & Repair

Disposal should be in accordance with local authority requirements. European waste catalogue-code: 17 08 02 Gypsum based construction materials other than those mentioned in 17 08 01. Mixed construction waste (e.g. gypsum with adhesive remains) belong to 17 09 04. Empty packaging thoroughly, these may be recycled after cleaning.

Health & Safety

When handling and lifting, be cautious of the panel weight. When cutting, use appropriate dust mask if dust develops and dust extraction equipment. Please refer to the safety data sheet for more information.

Application / Installation

GIFA FHB has a tongue and groove edge which a suitable adhesive (such as GIFAbond blue) is applied to. Due to the varied application of GIFA FHB please refer to our videos and guides on our website for full application instructions.

Additional Documentation

[Declaration of Performance UKCA](#)

[Declaration of Performance CE](#)

Certification

[Environmental Product Declaration](#)

Emicode EC1 Plus certified.

Product Accreditations:



Knauf UK GmbH Company Accreditations:



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