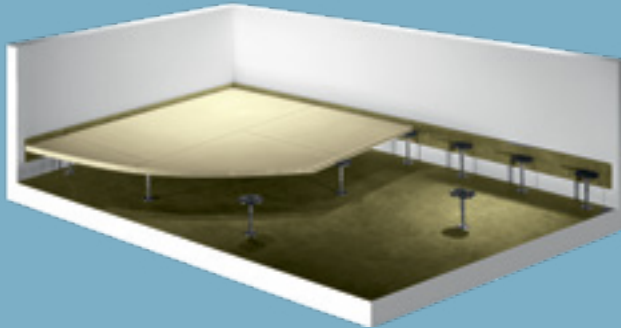


## Knauf Gifafloor FHB

Technical Data Sheet 12/2023



# Knauf Gifafloor FHB

Raised floor panel suitable for free-standing and profile beam systems

### Product Description

The panels are produced from natural gypsum and a share of FGD gypsum with an admixture of cellulose fibres made of sorted recycled paper and cardboard. The production process is unique in the world.

### Storage

Always store boards vertically in line and in a dry environment and keep away from water. In exterior and interior environments, at most 5 and 6 boards can be stacked on top of each other. There should be two boards to protect the pallet on front and back sides. If boards are going to be stored outside, some form of cover (nylon etc.) should be used.

### Standards referred to

EN 12313

### Fields of Application

- Knauf GIFAfloor hollow floors are used in interiors, e.g. for the application of building services of all kinds. They can, depending on the load carrying layer and pedestals, be used for almost all fields of application such as offices, commercial buildings, hotels, hospitals, meeting halls, exhibition halls and airport buildings where standard floor coverings are installed.
- Knauf GIFAfloor hollow floors are suitable for domestic areas of high humidity. Knauf GIFAfloor hollow floors improve the fire resistance and sound insulation without introducing additional moisture into the building.

### Properties

- High load carrying capacity
- A1 (according to EN 13501-1)
- Time saving
- Pedestal and profile beam systems
- High density gypsum fiber elements
- Robust tongue and groove edge
- High quality feel
- High laying speed
- Clean and easy installation
- High stability through coordinated Knauf system components
- For interior application
- Sound insulation
- Fire resistance

### Technical Data

Description	GIFAFloor FHB / GIFAFloor LEP	Unit
Building material class acc. to EN 13501-1	A1	Non-combustible
Calculation value of the thermal conductivity $\lambda_R$	0,44	W/(mK)
For designing a floor heating system $\lambda_{10}$	0,30	W/(mK)
Water vapour diffusion resistance $\mu$	30/50	–
Specific heat capacity c	>1000	J/(kgK)
Thermal expansion coefficient $\alpha$	$12,9 \cdot 10^{-6}$	1/K
Changes in length at temperature change	$\leq 0,02$	mm/(mK)
Calculation value of the length change* (Z-9.1-517 e göre)	$\leq 0,6$	mm/m
Hygrothermal installation conditions (stationary)	+10° - +35°C	approx. 45 – 75 % rel. air humidity
Hygrothermal usage conditions (stationary)	-10° - +35°C	approx. 35 – 75 % rel. air humidity
Surface water absorption capacity acc. to EN 20535 (acc. to Kopp)	<300	g/m <sup>2</sup>
Surface hardness (Brinell)	$\geq 40$	N/mm <sup>2</sup>
Pull off bond strength	$\geq 1,0$	N/mm <sup>2</sup>
Surfaces primed on both sides for transport purposes only, to bond dust and reduce water absorption capacity	Yes	–
Ability to bear vertical dynamic maximum working load acc. to EN 13964 without additional treatment measures	$\geq 100\ 000$	Load change
Value of water vapour diffusion resistance $\mu$ of the optional factory-made lamination of aluminum foil on the base $\mu$	$9,3 \cdot 10^6$	Practically vapour-tight

\* The calculation value of the length change acc. to German National Technical Approval Z-9.1-517 is to be used for calculation of joint widths for the GIFAFloor hollow floor. This calculation value is based on the measurements of the length change of the material with a change of the relative humidity by 30% at 20°C and incorporates additional safety margins.

## Product Range

The diagrams shown are not to scale	Technical data						
	Description Acc. EN 15283-2	Dimensions (appearing surface) mm	Board- thickness mm	Weight (Density $\geq 1500 \text{ kg/m}^3$ ) Board approx. kg/ad   approx. kg/m <sup>2</sup>		Material Number	Packaging (pcs./pallet)
	<b>FHB-panels</b>						
	<b>FHB 25</b>	1200x600	<b>25</b>	29,2	40,6	31256	35 pcs./pallet
	GF-W1DIR1/1200/600/25-C1/NF	600x600	<b>25</b>	14,6	40,6	63565	70 pcs./pallet
	GF-W1DIR1/600/600/25-C1/NF						
	<b>FHB 28</b>	1200x600	<b>28</b>	32,8	45,5	31545	30 pcs./pallet
	GF-W1DIR1/1200/600/28-C1/NF	600x600	<b>28</b>	16,4	45,5	50980	60 pcs./pallet
	GF-W1DIR1/600/600/28-C1/NF						
	<b>FHB 32</b>	1200x600	<b>32</b>	37,4	52,0	31326	25 pcs./pallet
	GF-W1DIR1/1200/600/32-C1/NF	600x600	<b>32</b>	18,7	52,0	31559	50 pcs./pallet
	GF-W1DIR1/600/600/32-C1/NF						
	<b>FHB 38</b>	1200x600	<b>38</b>	44,5	61,8	88635	20 pcs./pallet
	GF-W1DIR1/1200/600/38-C1/NF	600x600	<b>38</b>	22,2	61,8	88636	40 pcs./pallet
	GF-W1DIR1/600/600/38-C1/NF						
	<b>LEP 18</b>	1200x600	<b>18</b>	21,1	29,3	99258	50 pcs./pallet
GF-W1DIR1/1200/600/18-C1/SF							

## System Performance Values

The bearing capacity, sound insulation and similar properties of Gifafloor floor slabs vary according to the system components.

Please see for detailed information;

[Knauf Technial Website](#)  
[Document Center](#)

## Application

For application, it is recommended to follow the technical details and application methods in the Knauf system brochures.

[F18.de](#)  
[F19.de](#)