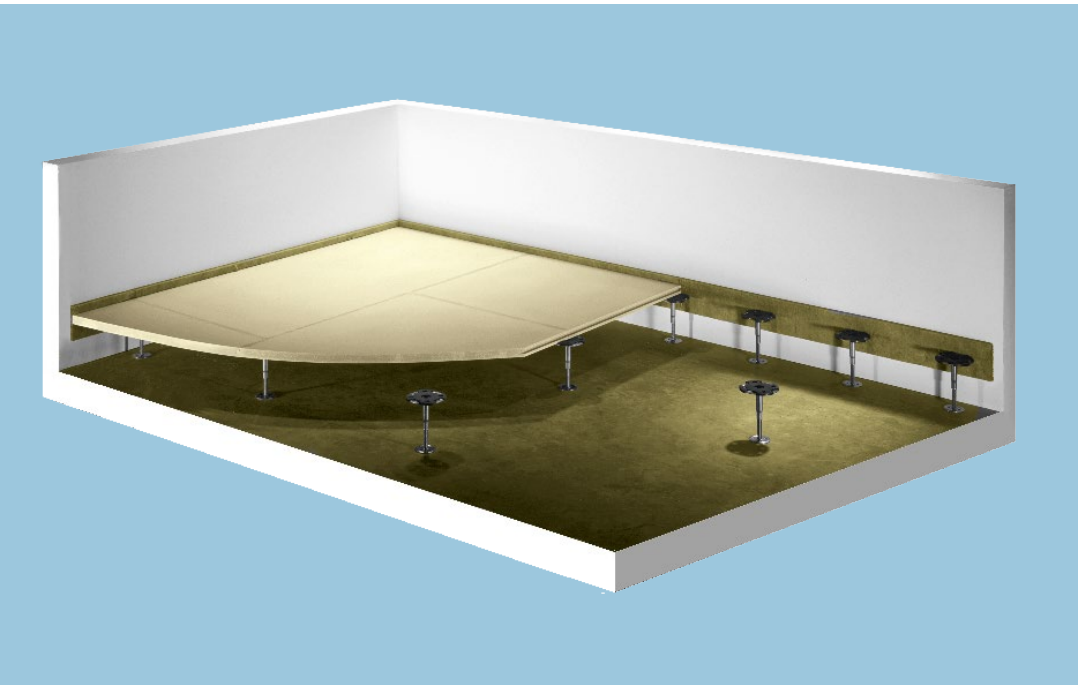


GIFAtec

F181-A01.de

Assembly Instruction 11/2023

Knauf GIFAfloor FHB Hollow Floor

Assembly instruction

Content

Instructions for use

Notes on the document

This assembly instruction is an aid for the assembly of prefabricated products. It contains information on the scope of delivery, proper assembly and, if necessary, testing and adjustment of the product. Unless otherwise stated, the information and specifications, construction variants, design details and products listed are based on the applicability certificates (e.g. general building authority test certificates abP) and standards valid at the time of preparation. In addition, building physics (fire protection and sound insulation), constructional and static requirements are taken into account where necessary.

References to other documents

- F18.de Knauf GIFAfloor hollow floor
- F431.de Knauf Screed Primer
- K436e.de GIFAfloor Edge insulation strip MW
- K841.de GIFAfloor FHB Elements
- K844b.de GIFAfloor Pedestals
- K844c.de GIFAfloor Pedestal Adhesive EC 1
- K844d.de GIFAfloor Thread Sealer EC 1
- K844e.de GIFAbond blue

Legal notes

Safety information

This assembly instruction contains information that must be observed for personal safety and to avoid damage to property.

Caution	Indicates a potentially harmful situation. If this is not avoided, it may endanger the safety of the worker or users or cause damage to the product or the environment.
Note	Provides useful information on the product or system.

Qualified personnel

The product/system associated with these instructions may only be handled by personnel qualified for the respective task. The safety and warning instructions must be observed or complied with. Qualified personnel are, due to their training and experience, able to recognise risks when handling this product or system and to avoid possible hazards.

Intended use of products and systems

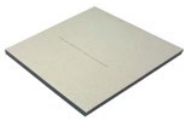
Please observe the following:

Caution	Knauf systems may only be used for the application cases as stated in the Knauf documentation. In case third-party products or components are used, they must be recommended or approved by Knauf. Flawless application of products/systems assumes proper transport, storage, assembly, installation, and maintenance.

System components

Figure	Material	Mat.-No.	Packaging unit	Consumption
1	GIFAfloor FHB elements	See price list	See price list	—
2	Access panel GIFAfloor DB 34 / 42 R green	See price list	See price list	As required
3	Knauf screed primer	5355	10 kg-bucket	Approx. 200 g/m²
4	GIFAfloor edge insulation strip MW	756440	10 pcs./box	As required
5	GIFAfloor grid rod light	74336	Piece	Approx. 5.7 pcs/m²
5	GIFAfloor grid rod heavy	74337	Piece	Approx. 5.7 pcs/m²
6	GIFAfloor pedestals M12 S / M16 S	See price list	See price list	Approx. 5 pcs/m²
7	GIFAfloor pedestals M16 ST / M20 ST / M20 ST 3.0	See price list	See price list	Approx. 5 pcs/m²
8	GIFAfloor gasket for M12 without naps	30097	150 pcs./box	Approx. 5 pcs/m²
8	GIFAfloor gasket for M16/M20 without naps	30056	150 pcs./box	Approx. 5 pcs/m²
9	GIFAfloor pedestal adhesive EC 1	260231	600 ml foil tube bag	Approx. 15 ml/Stütze
10	GIFAfloor thread sealer EC 1	776410	500 g bottle	Approx. 1 bottle / 250 pedestals
11	GIFAfloor PGR insulation pads	44135	400/box	Approx. 5 pcs/m²
12	Knauf GIFAbond blue	676976	1200 ml bottle	- Approx. 23 m² (size 1200x600 mm) - Approx. 18 m² (size 600x600 mm)
13	Knauf GIFAframe and spacer	See price list	Piece	As required (approx. 4 per room)

1 2 3 4 5



6 7 8 9 10





11 12 13


Tools

Figure	Required tools	Mat.-No.	Packaging unit	Consumption
14	Knauf adhesive gun	4657	Piece	As required
15	GIFAtool Diamond (Diamond tipped saw blade 160 x 2,2 / 1,6 x 20)	186326	Piece	Tool life approx. 500 m²
—	Rotary laser or level	—	Piece	As required
16	Vacuum cleaner	—	Piece	As required
17	Hand-held circular saw with tracks	—	Piece	As required
—	Pendulum stroke jigsaw	—	Piece	As required
—	Angles	—	Piece	As required
—	Folding rule	—	Piece	As required
—	Paint roller	—	Piece	As required
—	Vacuum lifter	—	Piece	As required
—	Timber wedge	—	Piece	As required

14

15

16

17

Substrate and primer

Caution	The substrate must have the minimum load-bearing capacity for the load transfer via the raised floor pedestals. The substrate must be solid, dry, and free of separating agents such as bitumen, oils or paints.

1. Sweep and vacuum the unfinished floor thoroughly.

Bild 1: Clean the raw floor

2. Prime the unfinished floor surface, e.g. with Knauf Estrichgrund.

Bild 2: Prime the raw floor

Note	Mixing ratio of Knauf Estrichgrund with water is 1:1.

Check and determine installation height

1. Checking and determining the heights.

Bild 3: Check and set reference points

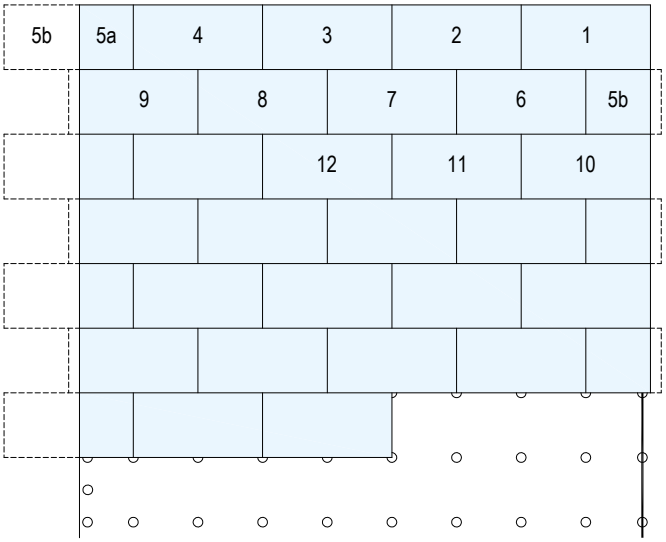
Measure the room and create a laying plan

1. Measure the room with a folding rule.
2. Check the room for squareness with an angle.

Bild 4: Checking perpendicularity

3. If necessary, preparation of installation plan.

Bild 5: Installation plan with wall connection



Note	Edge length of the cut-off panels at least 200 mm.

Note	Maximum square area without expansion joint 15 m x 15 m.

Fixing GIFAfloor edge insulation strips

1. Fix GIFAfloor edge insulation strips with staples or Knauf Uniflott.

Bild 6: Wall fixing GIFAfloor edge insulation strips

2. Fix GIFAfloor edge insulation strips to the wall all around.

Note	Pay attention to the position of the staples. Staple underneath the FHB elements to avoid sound bridges.

Bild 7: Fasten GIFAfloor edge insulation strip circumferential to wall

Note	Edge insulation strips must protrude above the upper edge of the finished floor and be fixed below the GIFAfloor FHB elements.

Note	Installation of GIFAfloor edge insulation strips MW optionally possible with Knauf Uniflott.

Prepare position of the pedestal

1. Mark the position of the first GIFAfloor pedestal on the subfloor and apply GIFAfloor support gaskets without nubs.

Bild 8: Mark the line for the first row of pedestals

Set up pedestals

1. Apply a sufficient quantity of GIFAfloor pedestal adhesive to the underside of the pedestal base.

Bild 9: Apply GIFAfloor pedestal adhesive

2. Align the first GIFAfloor pedestals vertically and set them to the reference height.
3. Mount additional GIFAfloor pedestals to hold the GIFAfloor FHB elements and level them to height using a raised floor spirit level or laser.

Note	Install a row of pedestals with a smaller spacing (300 mm instead of 600 mm) in the edge area according to F18.de Knauf GIFAfloor hollow floor.

Installation of the first GIFAfloor FHB hollow floor element in the perimeter area

1. Measurement of the wall connection element.

Bild 10: Measuring the wall connection element

2. Cut the wall connection element with a hand-held circular saw and GIFAtool Diamond saw blade.

Bild 11: Cut wall connection element

3. Prepare GIFAfloor raised floor pedestals for the wall connection area. For this purpose, use GIFAfloor support plates with two naps.

Bild 12: Set up the pedestals and mount them in the wall connection area

4. Install the cut-to-size GIFAfloor hollow floor element in the wall connection area and secure it against height adjustment with GIFAfloor Thread Sealer EC 1.

Bild 13: Set up reference height

5. Install GIFAfloor pedestals in the wall connection area (see page 7) with sawn edge towards the wall.

Bild 14: Apply the GIFAfloor Thread Sealer

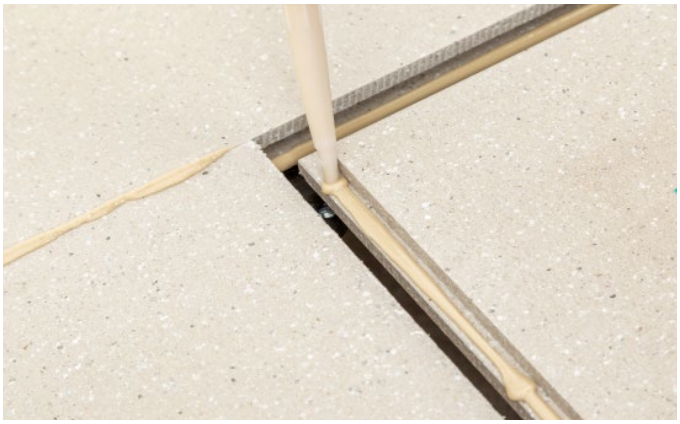
Installation of further GIFAfloor FHB hollow floor elements

1. Glue GIFAfloor pedestals in position.

Bild 15: Positioning additional pedestals

2. Adjust the height of the GIFAfloor pedestals and check with a spirit level or laser.
   Place additional GIFAfloor FHB hollow floor element on the installed pedestals. Apply GIFAbond blue into the groove of the previously mounted element and onto the tongue of the following element.

Bild 16: Application of adhesive



3. Slide the two FHB elements together.

Bild 17: Leaking adhesive indicates sufficient quantity

Note	Wooden wedges are helpful when pushing the hollow floor together. Do not „knock“ the floor as this may damage the tongue of the element. Shown is the GIFAbond uno EC 1, which can be used as an alternative to the GIFAbond blue.

4. Mount the next row of panels in the same way. Always check the height in between.

Bild 18: Adjust the height of the GIFAfloor pedestals and check with a spirit level or laser.

5. Levelling the hollow floor elements.
6. Level and secure further GIFAfloor FHB hollow floor elements in both directions using a raised floor spirit level. Then secure against height adjustment with GIFAfloor Thread Locker EC 1 (see page 7).

Bild 19: Installation of further hollow floor elements

Note	For format 600 x 600 mm: Place the inner hollow floor panels of the second and following row on the 3 upright pedestals. Slide the fourth pedestal under the hollow floor element and adjust the height. However, this does not replace checking the height.
	For format 1200 x 600 mm: Place the inner hollow floor panels of the second and following row on the 4 upright pedestals. Place the fifth pedestals at the free corner with the correct height. Slide the sixth pedestals under the hollow floor element and adjust the height. However, this does not replace checking the height.

Note	Allow excess adhesive to dry, then remove with a tool.

Notes

Notes on revision frames

1. Install the frame.

Bild 20: Installed access frame

2. Close the access frame by placing the access panel GIFAfloor DB 34 R or 42 R green on the frame.

3. Access the subfloor by lifting the access panel with a suction lifter.

Bild 21: Opening the access frame with vacuum suction lifter

4. To revise the subfloor (e.g. lay cables, etc.), remove the GIFAfloor DB 34 R or 42 R green revision panel with a vacuum suction lifter. Close the floor after finishing the revision.

Notes on the top layer

1. Apply the top layer according to the manufacturer recommendation.

Bild 22: Apply top layer to edge insulation strip MW

Bild 23: Cut off GIFAfloor edge insulation strips MW flush around the perimeter after laying the top covering

Optional assembly of stringers

Assembly GIFAfloor stringers

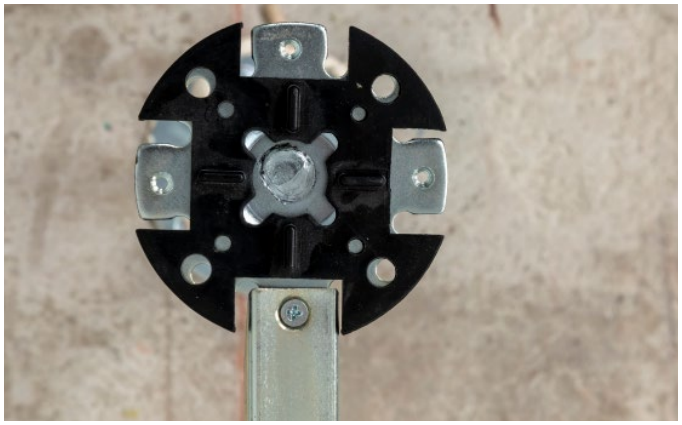
1. Set up the pedestals at the intended grid spacing.

Note	For pedestal heights from approx. 500 mm, use light grid bars for horizontal bracing and from approx. 800 mm pedestal height, use heavy grid bars.

Note	Install on-site electrants according to the manufacturer's instructions. This significantly reduces the workingload of the GIFAfloor FHB.

2. Install GIFAfloor stringers for vertical stiffening.

Bild 24: Fix heavy stringer with a screw to the pedestal.



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