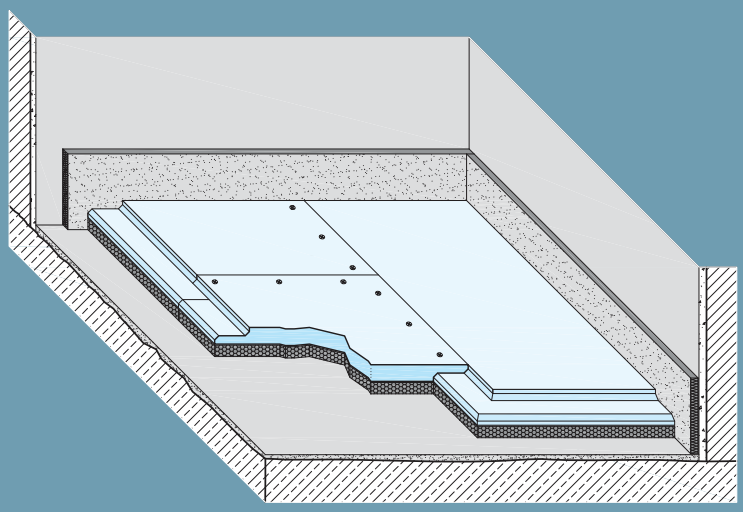


F13

Technical Data Sheet | 01 / 2018

# F13 Knauf Vidifloor Dry Screed

F134 - Knauf Vidifloor SOLO

F135 - Knauf Vidifloor  DUO

# F13 Knauf Vidifloor Dry Screed

**Fields of Application / Tecnical Data and Building Physics Data**

## Knauf Vidifloor Units System F134 and Vidifloor Boards System F135 are dry screed systems

Knauf Vidifloor F134 consists of monolythic manufactured gypsum fibre units with milled tiers.
Knauf Vidifloor F135 consists of two layers of monolythic manufactured gypsum fibreboards that are glued and stapled to each o ther on building site.

### Fields of application

- for residental buildings, offices, schools, hospitals etc. depending on imposed loads and the floor substructure
- for interior application including domestic bathrooms and kitchens

### Suitable for:

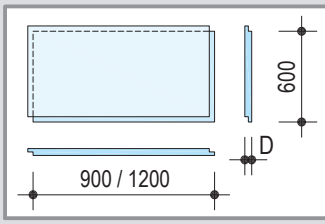
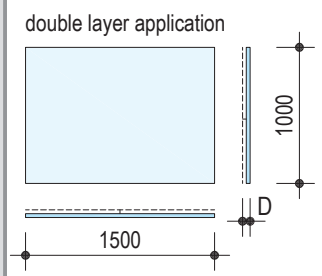
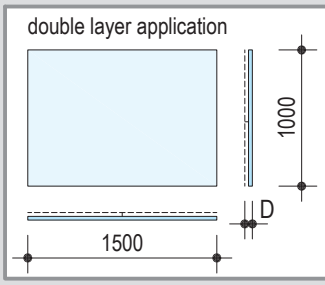
- for floor heating:
  F134 Vidifloor Units and F135 Vidifloor Boards
- Chair roll resistance:
  F134 Vidifloor Units and F135 Vidifloor Boards:
  with a layer of ≥ 2 mm Knauf Nivellierspachtel 415
- pre fabricated parquet flooring and mosaic parquet flooring
- parquet flooring on insulation layer
- carpets, PVC and linoleum flooring
- stoneware tiles max. 33 cm x 33 cm

- Knauf Vidifloor F134 Floor Units and F135 Floor Boards are suitable for the use in interior domestic damp areas (bathrooms and kitchens). Suitable water protection measures are necessary.

| Thermal conductivity W/(mK) | | |
|---|---|---|
| Knauf F134 Vidifloor Units | $\lambda_R$ | **0.30** |
| Knauf F135 Vidifloor Boards | $\lambda_R$ | **0.30** |
| EPS | $\lambda_R$ | **0.04** |
| Wood fiber WF | $\lambda_R$ | **0.055** |
| Knauf dry levelling fill PE | $\lambda_R$ | **0.14** |
| Dry levelling fill expanded clay | $\lambda_R$ | **0.14** |

**Vidifloor reaction to fire according to EN 13501-1:**
**Fire classification: A2 - s1, d0**

| Water vapor diffusion coefficient | | |
|---|---|---|
| Knauf F134 Vidifloor Units | $\mu$ | **21** |
| Knauf F135 Vidifloor Boards | $\mu$ | **21** |
| EPS | $\mu$ | **30 - 70** |
| Wood fiber WF | $\mu$ | **appr. 5** |
| Knauf levelling fill PE | $\mu$ | **1 - 2** |
| levelling fill expanded clay | $\mu$ | |

| **Pre-fab Screed Portfolio**<br>Type of product according to EN 15 283-2<br>Scheme diagrams not to scale | **Technical Data**<br>**Dimensions Unit / Boards**<br>mm | **Total thickness D**<br>mm | **Weight Unit/ Boards**<br>appr.<br>kg/m² | Thermal Resistance<br>m² K/W | Vapour diffusion equivalent to air layer thickness<br>**$s_d$ - Wert**<br>m | Material number | Packaging units pallets |
|---|---|---|---|---|---|---|---|
| **F134 Knauf Vidifloor Units** | Installation: 900 / 1200 / 600 mm | | | | | | |
|  | **1 x 18**<br>**1 x 23**<br>  <br>**18**<br>**23**<br>gypsum fiberunit | **18**<br>**23** | **23,5**<br>**29,5** | 0.05 - 0.06 | 0.38<br>0.49 | 00153502<br>00235149<br>00607180 | 40 pcs. / pallet<br>50 pcs./ pallet |
| **F135 Knauf Vidifloor Boards** | Installation: 1500 / 1000 mm | | | | | | |
|  |  <br>**2 x 10**<br>**2 x 10**<br>gypsum fiberboards | **20** | 24 | 0.12 | 0.42 | 00006964 | 70 pcs / pallet |
| **F135 Knauf Vidifloor Boards** | Installation: 1500 / 1000 mm | | | | | | |
|  |  <br>**2 x 12.5**<br>**2 x 12.5**<br>gypsum fiberboards | **25** | 30 | 0.12 | 0.52 | 00006966 | 60 pcs / pallet |

# F13 Knauf Vidifloor Dry Screed

**Mehanical Resistance - Knauf Vidifloor Units and Boards**

## Floor constructions for various fields of application and live loads

| Categories of use and loaded areas according to EN 1991-1-1 | Imposed loads according to EN 1991-1-1 | | Load bearing layer | | Optional configuration below load bearing layer | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Thickness in mm | | | | |
| | Uniformly distributed load $q_k$ | Concentrated load $Q_k$ | Thickness in mm | | 1 Mineral wool MW | 2 Dry levelling fill | 3 Dry levelling fill + Knauf plasterboard 9.5 | 4 Wood fiber WF | 5 EPS ≥ 100 kPa |
| **Category A**<br>Rooms in residental buildings and houses; bedrooms and wards in hospitals; bedrooms in hotels and hostels; kitchens and toilets<br>**Category B**<br>B1 Office areas in existing buildings | **2 kN/m²** | **2 kN** | **18** | Vidifloor F134 (1 x 18.0 mm) | to 10 | - | 20 to 50 | 10 to 20 | to 100 |
| | | | **20** | Vidifloor F135 (2 x 10.0 mm) | to 10 | 20 to 50 | - | 10 to 20 | to 100 |
| **Category B**<br>B2 Office areas in office buildings<br>**Category C** *<br>C1 Areas with tables etc., e. g. areas in schools, cafes, restaurants, dining halls, reading rooms, receptions.<br>C2 Areas with fixed seats, e.g. areas in churches, teatres or cinemas, conference rooms, lecture halls, assembly halls, waiting rooms, railway waiting rooms | **3 kN/m²** | **3 kN** | **25** | Vidifloor F135 (2 x 12.5 mm) | - | 20 to 50 | - | 10 to 20 | to 100 |
| | | | **30,5** | Vidifloor F134 (18 + GKB 12.5) | - | 20 to 50 | - | 10 to 20 | to 100 |
| C3 Areas without obstackles for moving people, e.g. areas in museums, exhibition rooms etc. and access areas in public and administration buildings hotels, hospitals, railway waiting rooms | **4 kN/m²** | **4 kN** | **36** | Vidifloor F134 (2 x 18.0 mm) | - | - | - | 10 to 20 | - |
| C5 Areas susceptible to large crowds, e.g. in buildings for public events like concert halls, sport halls including stands, terraces and access areas and railway platforms<br>**Category D**<br>D1 Areas in general retail shops | **5 kN/m²** | **4.5 kN** | **36** | Vidifloor F134 (2 x 18.0 mm) | - | - | - | 10 to 20 | - |

*** Attention is drawn in particular to category C5. See EN 1990 when dynamic effects need to be categorised.**

**NOTE 1:**
Depending on their anticipated uses, areas likely to be categorised as C2 and C3 may be categorised as C5 by decision of the client and/or National annex.

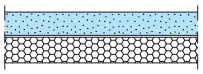
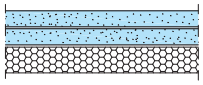
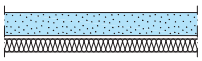
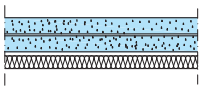
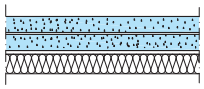
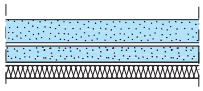
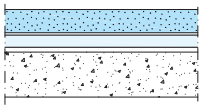
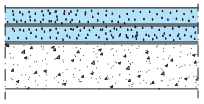
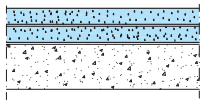
**NOTE 2:**
The National annex may provide sub categories to A, B, C1 to C5 and D1

**NOTE 3:**
For the categorisation of loaded areas characteristic values qk (uniformly distributed load) and Qk (concentrated load) are used. The above given values for qk and Qk are recommended values. Qk is intended for determination of local effects whereas qk is intended for determination of general effects.
The National annex of EN 1991-1-1 may define different conditions of use of the above table for categories of use.
Where necessary increased values of qk and Qk should be cosidered (e.g. for stairs and balconies depending on the occupancy and on dimensions).
According to EN 1991-1-1 for local verifications a concentrated load Qk acting alone should be taken into account. The concentrated load shall be considered to act at any point on the floor, balcony or stairs over an area with a shape which is appropriate to the use and form of the floor.

# F13 Knauf Vidifloor Dry Screed

**Impact sound insulation in connection with massive floors**

The calculation of the impact sound insulation with on massive floors should be done according to EN 12354 - 2.
The following table shows the impact sound reduction **Δ L** that is stated for various floor constructions.

| Floor construction | Load bearing layer + Layers beneath the load bearing | Total thickness mm | Massive floor Calculation value $\Delta L_{w,R}$ (dB) | Massive floor Test result $\Delta L_{w,P}$ (dB) | Proof |
|---|---|---|---|---|---|
|  | • **Vidifloor F134 / 18 mm**<br>• 20 mm EPS | 38 | **17** | **19** | ita 0034.04 |
|  | • **Vidifloor F135 / 2 x 10 mm**<br>• 20 mm EPS | 40 | **15** | **17** | ita 0119.98 |
| | • **Vidifloor F135 / 2 x 12.5 mm**<br>• 20 mm EPS | 45 | **15** | **17** | Calculation |
|  | • **Vidifloor F134 / 18 mm**<br>• 10 mm mineral wool / wood fiber | 28 | **17** | **19** | ita 0034.04 |
|  | • **Vidifloor F135 / 2 x 10 mm**<br>• 10 mm mineral wool / wood fiber | 30 | **18** | **20** | ita 0120.98 |
| | • **Vidifloor F135 / 2 x 12.5 mm**<br>• 10 mm mineral wool / wood fiber | 45 | **20** | **22** | Calculation |
|  | • **Vidifloor F135 / 2 x 12.5 mm**<br>• 20 mm mineral wool / wood fiber | 45 | **26** | **28** | ita 0123.98 |
|  | • **Vidifloor F134 / 18 mm**<br>**+ F135 / 1 x 12.5 mm**<br>• 10 mm mineral wool / wood fiber | 40.5 | **19** | **21** | ita 0034.04 |
|  | • **Vidifloor F134 / 18 mm**<br>**+ 9.5 mm GKB** [1)]<br>• 30 mm dry levelling fill<br>• 40 mm dry levelling fill<br>• 50 mm dry levelling fill | <br><br>57.5<br>67.5<br>77.5 | <br><br>**20**<br>**22**<br>**24** | <br><br>**22**<br>**24**<br>**26** | <br><br>Calculation<br>SDM 09026-02-DT<br>Calculation |
|  | **Vidifloor F135 / 2 x 10 mm**<br>• 30 mm dry levelling fill<br>• 40 mm dry levelling fill<br>• 50 mm dry levelling fill | <br>50<br>60<br>70 | <br>**19**<br>**21**<br>**23** | <br>**21**<br>**23**<br>**25** | <br>Calculation<br>Calculation<br>Calculation |
|  | • **Vidifloor F135 / 2 x 12.5 mm**<br>• 30 mm dry levelling fill<br>• 40 mm dry levelling fill<br>• 50 mm dry levelling fill | <br>55<br>65<br>75 | <br>**20**<br>**22**<br>**24** | <br>**22**<br>**24**<br>**26** | <br>Calculation<br>Calculation<br>Calculation |

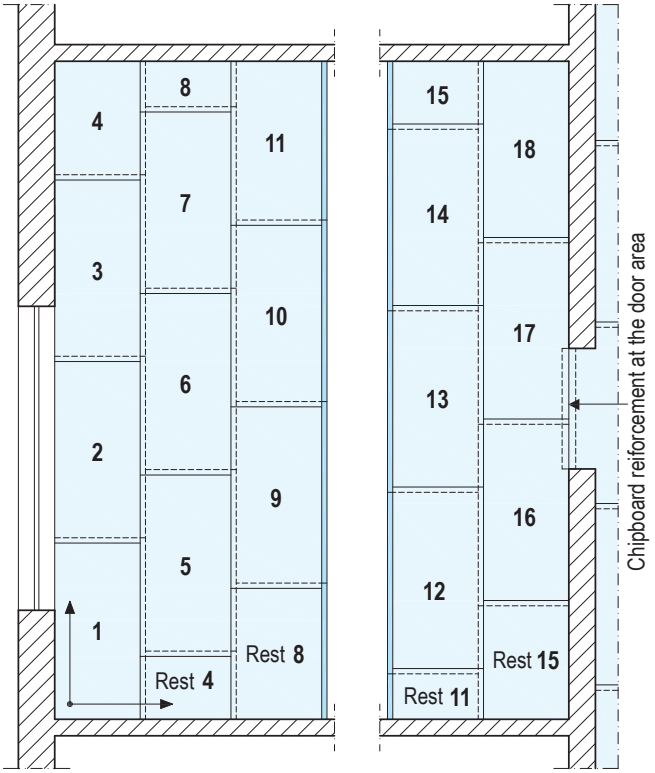
| | |
|---|---|
| **Material used for testing** | • Wood fiber WF: density 240 kg/m³; dynamic stiffness 40 MN/m³<br>• EPS: EPS ≥ 100 kPa according to EN 826<br>• Dry levelling fill expanded clay : density approx. 655 kg/m³<br>• mineral wool MW: density 180 kg/m³, for residental buildings etc. distributed load 2 kN/m², concentrated load 2 kN<br>Use only panels tha are premitted by the mineral wool manufacturer for the use with gypsum based pr-fab floor screed<br>General max. compressibility 1 mm |
| **Notes on the table** | **1)** apply covering board on dry levelling fill ( Knauf plasterboard ≥ 9.5 mm )<br>• The values are valid for on-site assembly |

# F134 Knauf Vidifloor Solo Dry Screed

Laying and application

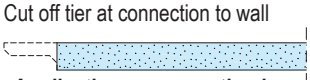
## Application

- **on separating layer / on insulation / on dry levelling fill**




- **Connection to wall, 1st row of units**

  Cut off tier at connection to wall



- **Application on separating layer / insulation**

  Start laying at the wall opposite to the door, from left hand side.
  At door areas the Vidifloor F134 units can be installed without extra joints (possible joints at the door area should be underlayed with chipboards).

- **Application on Knauf dry levelling fill**

  Start application at the door side. Use an additional element in the door area.

  On the dry levelling fill a covering layer of gypsum boards is obligatory (e.g. Knauf plaster board 9.5 mm). Lay the F134 units on the covering layer. Stagger all continuous joints of both layers at least 20 cm.

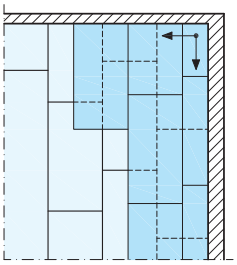
- **Multi-layer application**

  **All continuous joints of upper and lower layers should be staggered at least for 20 cm .**

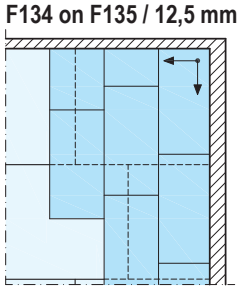
  Application of two or more dry screed units or boards:
  Start upper layer with 1/4 unit or board.
  If required conglutinate Vi difloor layers with Uniflott (notched trowel) or Vidifloor Flächenkleber (surface adhesive) and staple. Spacing of fasteners (screws or stap les) in both directions ≤ 300 mm.

  Application of F134 / 18 mm on F135 /12,5 or 10 mm:
  Lay floorboards alternating latera l and longitudinal. Lay F134 units subsequently lateral to laying direction of F135 boards.

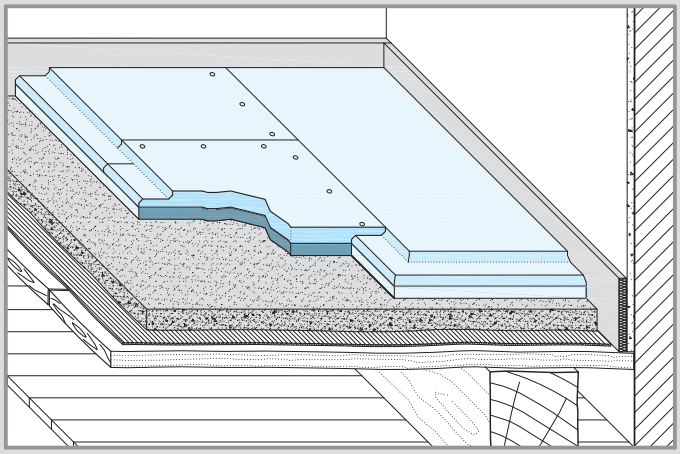
**F134 on F134**



**F134 on F135 / 12,5 mm**



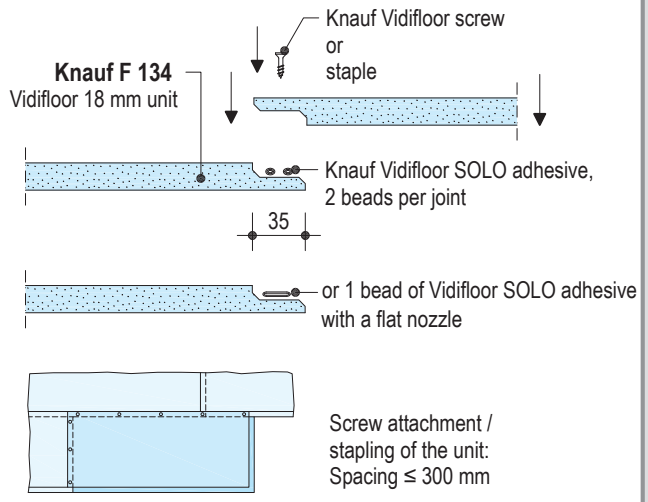
= upper layers = lower layers



- F134 Knauf Vidifloor Solo Unit

## Glue + screw attachment / stapling

**Connecting units by glue + screws/ staples**




## Screws / staples / tools

- F134: **Vidifloor screw 17 mm** (Material no. 00067067)
  **Puppenpistol** (Material no. 00006978)
  (flat nozzle packed with the tier adhesive)

**Staples for compressed air application** (no Knauf products)

| Length: | Diameter of staple wire: |
|---|---|
| F 134: **14 -16 mm** | **≥ 1.2 mm** |

Examples:

| Manufacturer: | Type: |
|---|---|
| Haubold | KL 515 |
| Paslode | N18-16 |
| Senco | SLS20-M16 |

**Staplers:** (no Knauf products)

- Compressed air stapler

or

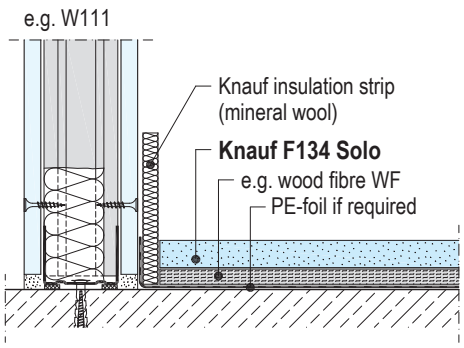
- Electro stapler:
  Novus J-172 A:
  Maestri MET 32:

# F134 Knauf Vidifloor Solo Dry Screed

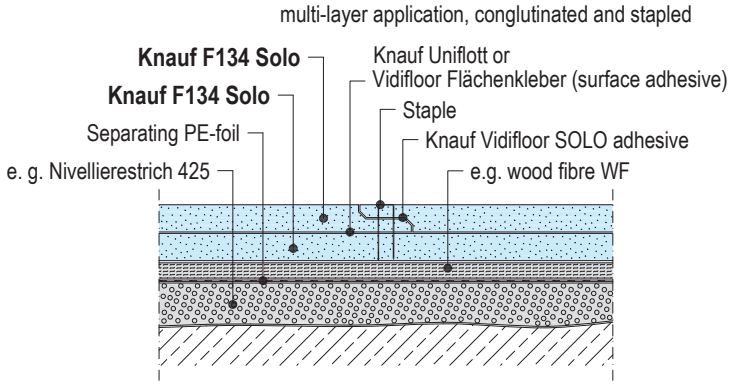
**Vertical sections**

**Details, scale 1:5**

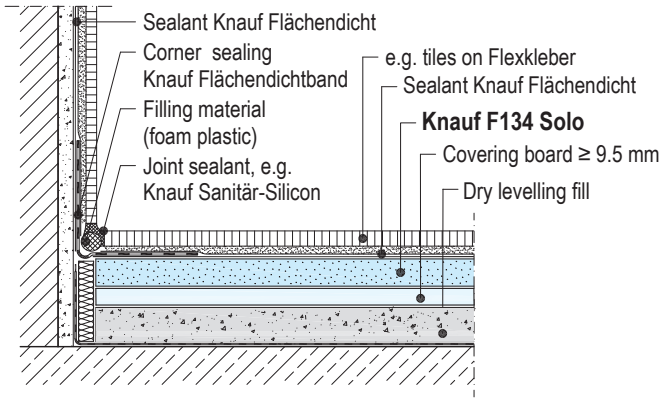
## F134 - V1 Connection to metal stud partition



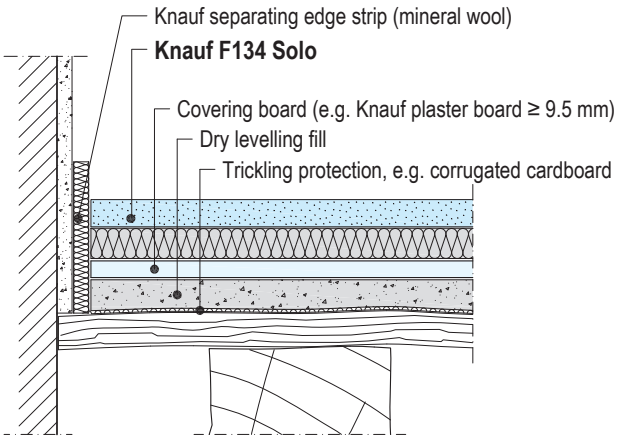

## F134-V6 Two layers of F 134, joint of units



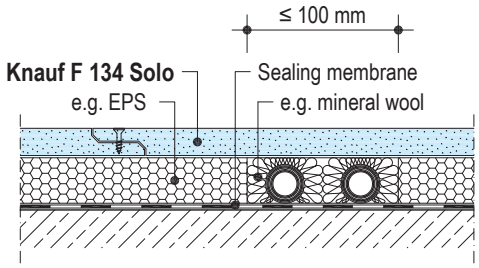

## F134-V2 Connection to wall in moist rooms



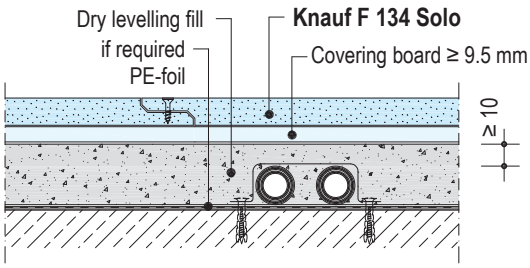

## F134-V3 Connection to wall, wood joist ceiling



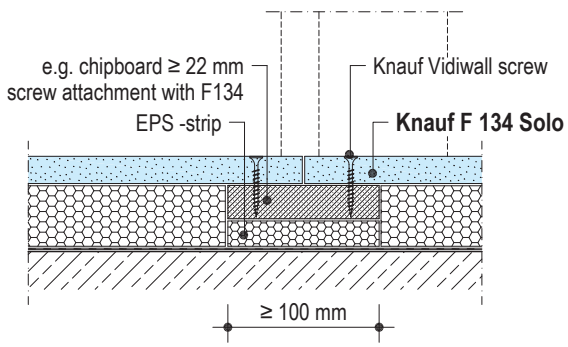

## F134-V2 Pipes in insulation layer with soil contact



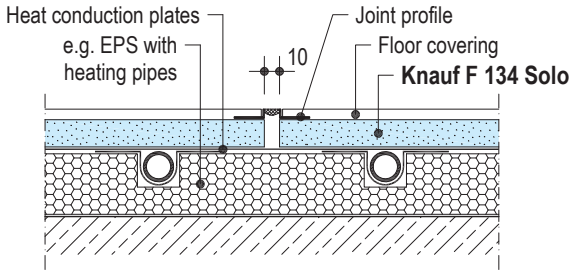

## F134-V4 Height compensation wit dry levelling fill




## F134-V3 Joint of units at door area on EPS

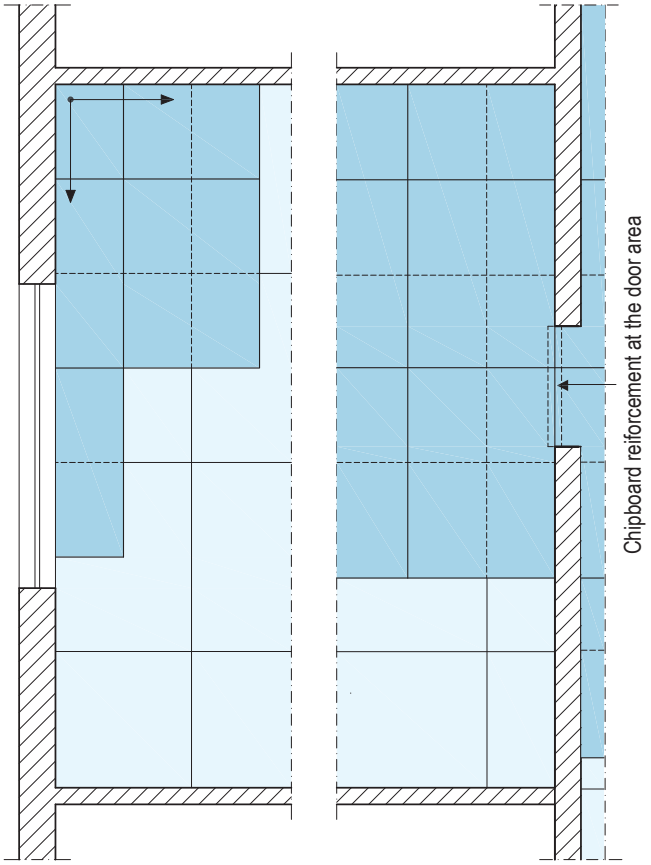



## F134-V4 Movement joint with floor heating



## Application

- **on separating layer / on insulation / on dry levelling fill**




= laying direction

= 1st board layer = 2nd board layer

- **Application on separating layer / insulation**

Start laying at the wall opposite to the door, from left hand side.
At door areas the F135 Boards can be installed without extra joints (possible joints at the door area should be underlayed with chipboards).

- **Application on Knauf dry levelling fill**

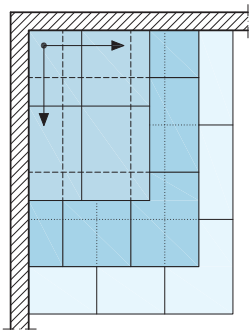
Start application at the door side. Use an additional element in the door area.

Stagger all continuous joints of both layers at least 20 cm.
Start upper layer with 1/4 Vidifloor F135 Board.

- **Triple-layer application**

**In case of triple-layer application stagger joints of all three layers to each other**

Example (see drawing):
Apply first and second layer as shown in laying scheme above. Trim all further boards of the third layer accordingly and lay them in a cross joint pattern.

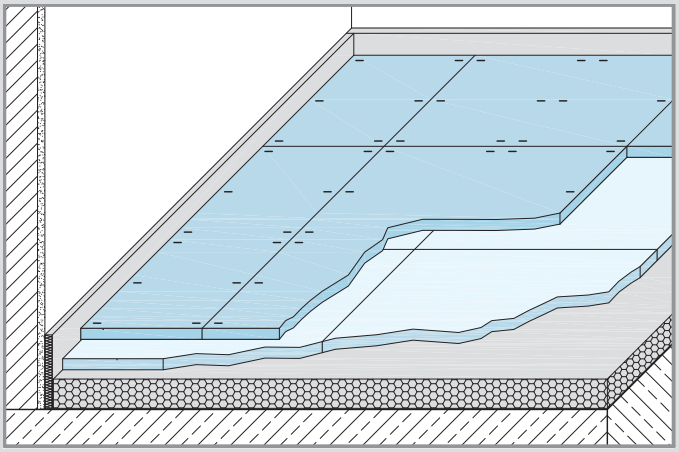


= 3rd board layer

= 2nd board layer

= 1st board layer

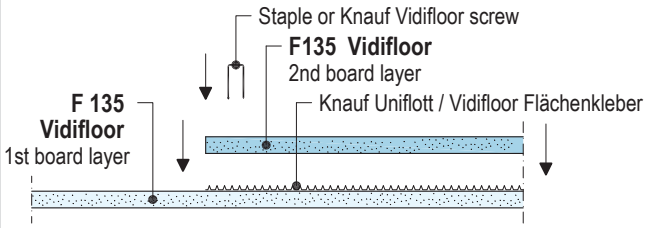
Conglutinate boards using Knauf Uniflott or Vidifloor Flächenkleber (surface adhesive).
Connect board layers with staples or screws.

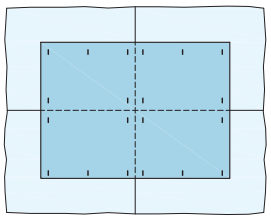


- F135 Knauf Vidifloor Duo Board

## Glue + screw attachment / stapling

**Connecting boards by means of surface glue + screw attachment / stapling**



Screw attachment / stapling
appr. 30 staples / $m^2$ floor area

## Screws / staples / tools

**Notched trowel for surface adhesive** (Material no. 00004696)
Replacement notch bead (notching B3): (Material no. 00004697)

**Screws for F135 (2 x 12.5 mm):**
**Vidifloor screws L = 22 mm:** (Material-Nr. 00006974)
**Screws for F135 (2 x 10.0 mm):**
**Vidifloor screws L = 17 mm:** (Material-Nr. 00006973)
**Staples for compressed air application:** (no Knauf products)

| Length for F135 / 2 x 12.5 mm: | Length for F135 / 2 x 10.0 mm: |
|---|---|
| **20 - 23 mm** | **14 - 16 mm** |

Examples: Diameter of staple wire: **≥ 1.2 mm**

| Manufacturer: | Type: | Manufacturer: | Type: |
|---|---|---|---|
| Haubold | KG 722 CDnk | Haubold | KL 515 |
| Paslode | S 16 1/8" CD | Paslode | N18 - 16 |

**Staplers:** (no Knauf products)
- Compressed air stapler

or

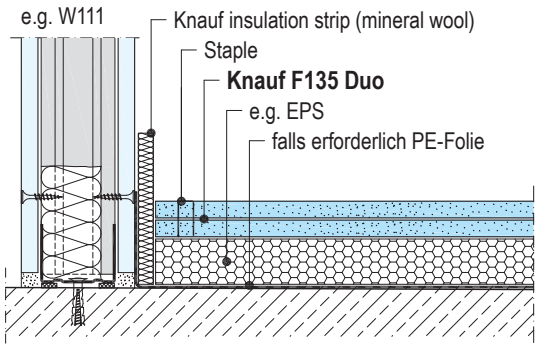
- Electro stapler:
  Novus J-172 A
  Maestri MET 32

# F135 Knauf Vidifloor Duo Dry Screed

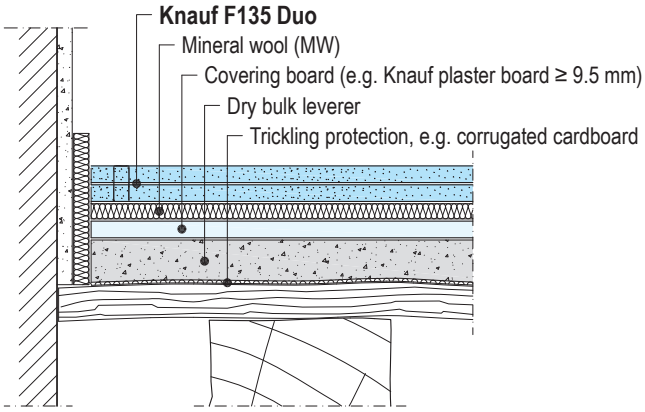
**Vertical sections**

**Details, scale 1:5**

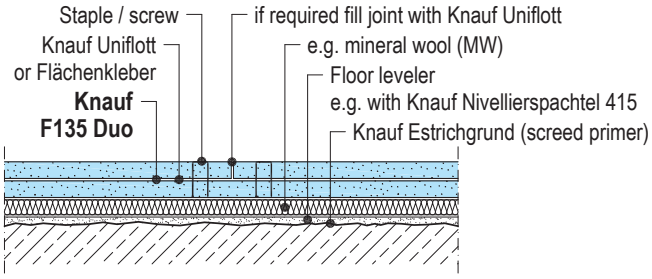
## F135-V1 Connection to wall, solid ceiling



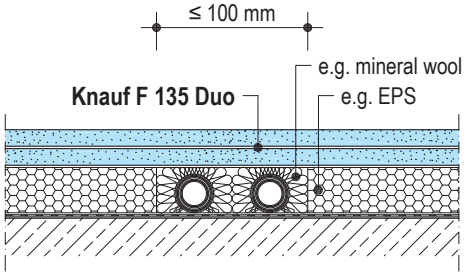

## F135-V10 Connection to wall, wood joist ceiling



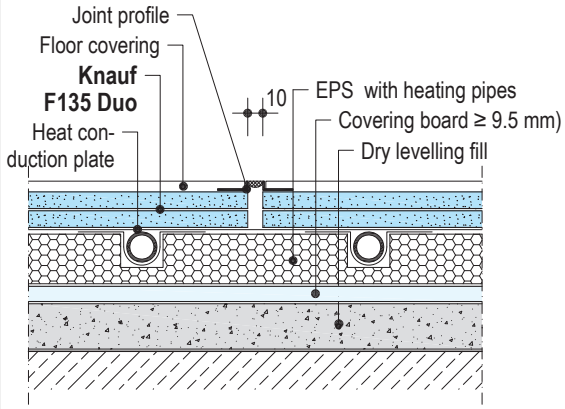

## F135-V2 Joint of boards



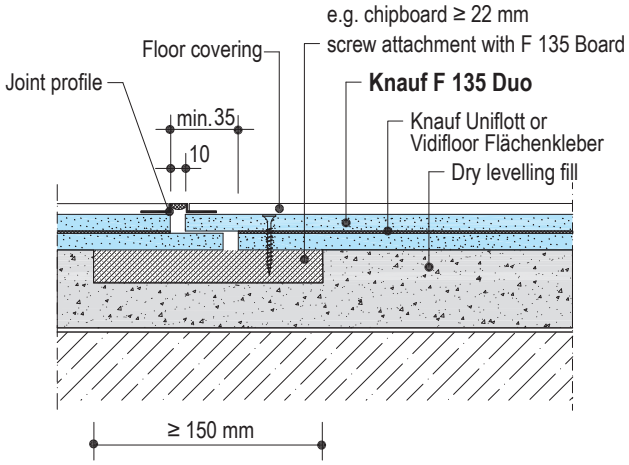

## F135-V11 Pipes in insulation layer



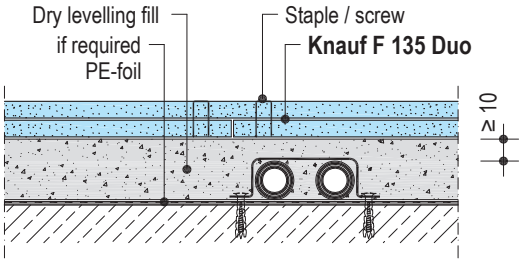

## F135-V13 Movement joint with floor heating



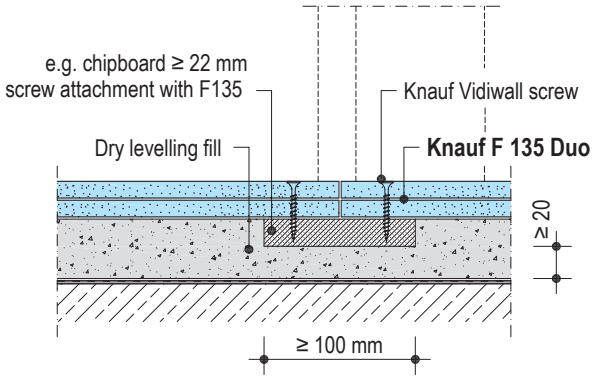

## F135-V7 Movement joint on dry levelling fill




## F135-V12 Height compensation with dry levelling fill




## F135-V6 Joint of boards at door area



# F13 Knauf Vidifloor Dry Floor Screed

**Consumption, substrate and height compensation**

## Consumption per m² floor construction without addition for loss and waste

average values

| Description italic = not provided by Knauf | Unit | F134 Solo (18 mm) | F 135 Duo (2 x 10.0 mm) | F 135 Duo (2 x 12.5 mm) |
|---|---|---|---|---|
| Insulation strip 100 mm width | m | length of wall connection | length of wall connection | length of wall connection |
| **Vidifloor units:** (18 mm) | m² | 1 | 2 | - |
| **Vidifloor boards:** (2 x 10.0 mm) | m² | - | - | - |
| **Vidifloor boards:** (2 x 12.5 mm) | m² | - | - | 2 |
| **Glue for the edges F 134:** | | | | |
| Vidifloor SOLO adhesive, bag 0,8 kg | kg | appr. 0,4 | - | - |
| **Surface glue F135 :** | | | | |
| or Uniflott<br>Vidifloor Flächenkleber (surface adhesive) | kg | appr. 0.6 (double layer) | appr. 0.6 | appr. 0.6 |
| **Screw attachment / stapling:** | | | | |
| or Vidifloor screws 17 mm or Staples | pcs | appr. 10 | appr. 30 | |
| Vidifloor screws 22 mm or Staples | pcs | | | appr. 30 |
| Uniflott for joint filling | kg | as required | as required | as required |
| Dry levelling fill per cm layer height | | appr. 10 | appr. 10 | appr. 10 |
| Covering board (on dry levelling fill) | m² | 1 | 1 | 1 |
| Knauf Nivellierspachtel 415<br>Knauf Nivellierestrich 425 | kg | as required | as required | as required |
| Estrichgrund (screed primer, diluted with water, ratio 1:1) | g | 50 | 50 | 50 |

## Construction

### F134 Vidifloor Units (1 x 18 mm)

Knauf Vidifloor Units, 18.0 mm thick, are gypsum fiberboards with the dimensions of 900 x 600 mm. They have 35 mm wide milled tier edges. The units are glued at edges with Knauf Vidifloor SOLO adhesive. The edges have to be screw attached or stapled.

### F135 Vidifloor Boards (2 x 10 mm)

Knauf Vidifloor Boards, 10.0 mm thick, are gypsum fiberboards with the dimensions of 1500 x 1000 mm. They have SK milled edges. The boards are installed in two layers. The boards are glued Knauf Vidifloor Flächenkleber (surface adhesive) and mechanically attached.

### F135 Vidifloor Boards (2 x 12.5 mm)

Knauf Vidifloor Boards, 12.5 mm thick, are gypsum fiberboards with the dimensions of 1500 x 1000 mm. They have SK milled edges. The boards are installed in two layers. The boards are glued Knauf Vidifloor Flächenkleber (surface adhesive) and mechanically attached.

## Substrate and height compensation (leveling)

### Substrate

- Check substrate and possibly applied leveling layer/coat for unevenness, height consistency and sturdiness.

  In case of wood joist ceilings check particularly the stability of the surface made of planks or wood based panels (maximum deflection l/300). No direct application of pre-fab screed on wood joists.
  Application on dead floor and leveling with dry levelling fill or Knauf EPO - Leicht onliy,if an adequate stability of the dead floor is ensured.
- In case of reinforced concrete ceilings apply PE foil with a thickness of at least 0.2 mm with a joint overlap of at least 20 cm in order to protect against residual moisture. Apply PE foil on walls up to floor construction height.
- In case of concrete base plate with soil contac apply water-proof sealing against ground moisture with appropriate sealing membranes
- Install 10 mm thick mineral wool edge strip at all connections to walls.
- Insulation layers: For proof of suitability refer to technical information of the insulation manufacturer.

### Height compensation of the raw floor

- Ensure a sufficiently even surface. Check height continuously. Provide a tight contact of the pre-fab floor screed to the raw floor on its entire surface.
- In case of minor unevenness of worn-out old floor planks and direct application of the pre-fab screed without insulation layer, use corrugated cardboard or paper felt as leveler. Do NOT apply it on surrounding wall connections.
- For low leveling height of Nivellierspachtel 415 or for Fließ-Spachtel 315. Consumption approx. 1.6 kg/m per mm of coat thickness.
- For leveling heights of 10 to 35 mm use Knau Nivelliererestrich 425 or for 5 to 30 mm Knau Dünn-Estrich 325. Consumption approx. 1.8 o 1.6 kg/m per mm coat thickness.
- Dry levelling fill Knauf Trockenschütting PA (area weight approx.5 kg/m per cm high), and expanded clay dry levelling fill (area weigh approx. 6.5 kg/m per cm height), residual moisture 1 %, bulk height 20 to 100 mm, are layed before the installation of Vidifloor for the purpose of height compensation of 20 mm. Before the installation of one-layer F134 Vidifllor cover levelling fill with Knauf gypsum board 9.5 mm. Below mineral wool and below EPS insulation this covering layer is also obligatory. On wood joist ceilings a trickling protection made of Knauf Schrenzlage or other vapour permissive material is required.

  Do not use dry levelling fill on wooden plank plank stack slabs or rooms with high dynamic stress (washing machines, spin driers etc.).
- For continuous height compensation or in case of installation pipes lying on the raw floor: Use polystyrene with a compressive strength o 100 kN/m or use cement-based wood fiberlightweight boards. Sheath pipes with mineral wool. Cut out EPS or lightweight boards accordingly. Lay pre-fab screed laterally to the laying direction of the insulation or compensation boards/panels.
- Knauf EPO-Leicht is a rapidly setting water-free mortar that is accessible 24 hours afte application. The thickness of the EPO-Leicht leveler can be from 15 to 800 mm with a density of approx. 200 kg/m . It is used for leveling uneven raw floors, to fill cavities and for height compensation, particularly on areas with high dynamic stress (washing machines etc.).
- If Knauf Brio Units or Floorboards are installed directly on the even or filled raw floor or directly on EPO-Leicht leveler, apply a layer of thin fleece, soft cardboard or similar material in between.

## Application

### General application

- Knauf Vidifloor Units and Boards can be installed without joints if the floor does not include floor heating. In rooms that exceed the width of 10 m the installation of movement joints (joint profiles) is recommended. Transfer structural joints into the floor construction.
- Apply units or boards continuously at doors or create a butt joint below the door leaf and underlay the joint with approx. 10 cm wide wood based panel strips, ≥ 19 mm thick, and glue strips with units/boards, using Vidifloor SOLO adhesive for F134, or Vidifloor Flächenkleber (surface adhesive) with F135, and attach with Vidiwall screws. If dry floor screed is connected to other floor constructions, (e. g. self-leveling floor screed) install gauge profiles or separating profiles or apply movement joint profiles while raising the foil. At connection areas the dry levelling fill has to be carefully pre-compacted .
- Fill joints of units/boards with Knauf Uniflott if necessary.
- Do not access dry floor screed for approx. 4 hours (depending on temperature) after application to allow for setting of the glue.
- Protect surface of dry screed from site traffic. It is recommended to install the dry screed after other work trades have been finished.
- Holes and chunking of the dry screed can be filled with Knauf Uniflott. In order to provide good bonding, prime the damages with Knauf Estrichgrund .

### Floor heating screed

Knauf F134 Vidifloor Units and F135 Vidifloor Boards can be installed on floor heating. It is recommended to apply movement joints at doors and in case of room width of more than 10 m. Maximum allowable flow temperature is 55 °C.

The use of electric floor heating or electric tile tempering is suitable to only a limited extent. Avoid heat accumulation (e. g. below cupboards or carpets) in any case. The maximum allowable temperature of the dry screed units/boards is 45 °C.

### F134 Vidifloor Units

- Start laying at wall opposite to the door from left hand side. Cut off tier at connection to wall.
- If a dry levelling fill is applied, it is necessaryto cover the even levelling fill with covering boards (e.g. Knauf gypsum boards ≥ 9,5 mm) before installing the F134 Vidifloor Units. The laying of Vidifloor units starts at the wall opposite to the door from left hand side.
- Lay units continuously. Start new row staggered with cut-off from previous row (no waste). Stagger by at least 20 cm. Butt joints and cross joints are not permitted.
- Create a tight and stiff connection by means of gluing and filling the tier joints with Knauf SOLO adhesive.
- Screw attach Vidifloor Units at tier joints with Vidifloor screws, 17 mm long, or fasten with staples (spacing ≥ 300 mm).
- In case of multi-layer application of Vidifloor Units conglutinate layers if required with surface adhesive Vidifloor Flächenkleber (notching B3) and staple or screw attach. Use Vidiwall screws 30 mm

### F135 Vidifloor Boards

- Start first board layer with full board and install as cross joint pattern. After application of Vidifloor Flächenkleber (surface adhesive) or Knauf Uniflott (notching B3) start installation of second layer with a half- size board (quarter-size board at corners) staggered by half a board size again as cross joint pattern.
- After gluing of the two layers of Vidiwall boards fix the layers with Vidifloor screws , 17 mm (for 2 x 10 mm) or 22 mm (for 2 x 12,5 mm). Instead of screws appropriate staples can be used for mechanical fixation. While fixation of the two layers load boards with body weight.

## Surface treatment and floor covering

### Moisture protection in moist rooms

Seal all watered areas in private bathrooms and kitchens entirely with Knauf Flächendicht sealant. Seal connections to walls with Knauf Flächendichtband sealing tape.

### Chair roll resistance

One-layer and two-layer Dry screed Knauf Vidifloor F134 and F135 are chair roll proof after application of a min. 2 mm thick skim coat of Knauf Nivellierspachtel.

### Priming

Before applying floor coverings or before skim coating, prime Knauf Vidifloor Units and Knauf Vidifloor Boards with screed primer Knauf Estrichgrund (diluted with water at a ratio of 1:1).

For parquet flooring prime with a system primer of the parquet glue system (take care of the product facts an the requirements of the glue manufacturer).

### Elastic floor covering

In case of elastic floor covering (e. g. PVC, Linoleum) skim coat Knauf Dry Floor Screed with min. 2 mm Knauf Nivellierspachtel 415. Before skimming the surface fill board joints with Knauf Uniflott and prime with screed primer Knauf Estrichgrund (diluted with water at a ratio of 1:1).

### Dry parquet or mosaic parquet

Laminated dry parquet or mosaic parquet (mosaic cubes) can be applied on dry screed if it is conglutinated to the screed on the entire surface. In coordination with the parquet manufacturer other parquet types are possible.

On separation layer or with clamp assembly other parquet types can generally be applied.

If dry screed is skim coated with Nivellierspachtel 415 before parquet application, refer to the procedure described before in „Elastic floor covering“ .

### Ceramic coverings

Thin-bed application:

Size of floor tiles max. 33 cm x 33 cm.

Use flexible floor tiles glue.

If substrate is stiff and if thickness of load bearing layer is increased (double-layer application of Knauf Vidifloor F134) larger dimensions or natural stone tiles can be applied if coordinated with Knauf.

# F13 Knauf Vidifloor Dry Screed

**Specifications**

| Item. | Description | Units | Unit price | Total almount |
|---|---|---|---|---|
| ..... | Sealing coat against residual moisture from the concrete ceiling, made of PE foil, 0.2 mm thickness, overlap joints by at least 20 cm. Product: | m2 | ..... € | .....€ |
| ..... | Edge strip, made of mineral wool, 10 mm thickness, 100 mm height. Product: **Knauf Randdämmstreifen** (edge insulation strip) | m2 | ..... € | .....€ |
| ..... | Separation layer as trickling protection on wood joist ceilings, made of natron kraft paper, plastic coated on both sides, min. 100 g/m2, single layer, overlap joints by at least 8 cm. Product: **Knauf Schrenzlage** | m2 | ..... € | .....€ |
| ..... | Leveling of substrate made of....., in case of gradient deviations/ in case of substantial unevenness/ in case of pipelines/ cables */ for height compensation *, with levelling fill made of mineral covered volcanic stone, cover levelling fills with gypsum boards, levelling fill thickness:.....mm. Product: **Knauf Trockenschüttung PA** (dry bulk leveller) | m2 | ..... € | .....€ |
| ..... | One layer dry floor screed made of gypsum fiberboard units with 35 mm tier, nominal thickness 18 mm, on concrete/ wood joist ceiling* with leveling coat/ insulation layer/ separation layer *,Building material class A2 and fire behaviour according to EN 13501-1, Product/ System: **F134 Knauf Vidifloor SOLO 18** | m2 | ..... € | .....€ |
| ..... | Double layer dry floor screed made of conglutinated gypsum fiberboards, nominal thickness 20 mm (2 x 10.0 mm), on concrete/ wood joist ceiling* with leveling coat/ insulation layer/ separation layer *, building material class A2 and fire behaviour according to EN 13501-1, Product/ System: **F135 Knauf Vidifloor DUO 20** | m2 | ..... € | .....€ |
| ..... | Double layer dry floor screed made of conglutinated gypsum fiberboards, nominal thickness 25 mm (2 x 12.5 mm), on concrete/ wood joist ceiling* with leveling coat/ insulation layer/ separation layer *, building material class A2 and fire behaviour according to EN 13501-1, Product/ System: **F135 Knauf Vidifloor DUO 25** | m2 | ..... € | .....€ |
| ..... | Two layer dry floor screed made of gypsum fiberboard units with 35 mm tier, nominal thickness 36 mm (2 x 18 mm), on concrete/ wood joist ceiling* with leveling coat/ insulation layer/ separation layer *,Building material class A2 and fire behaviour according to EN 13501-1, Product/ System: **F134 Knauf Vidifloor SOLO 36** | m2 | ..... € | .....€ |
| ..... | Priming of floor substrates made of dry screed, with solvent-free synthetic dispersion, consumption approx. 50 g/m2. Product: **Knauf Estrichgrund** (screed primer) | m2 | ..... € | .....€ |
| ..... | Skim coating of entire dry screed surface, with self leveling calcium sulfate filler of particularly low stress, made of factory blend dry mortar, chair roller proof form 2 mm thickness,* thickness in mmProduct: **Knauf Nivellierspachtel 415** (leveler) | m2 | ..... € | .....€ |

* Cancel not applicable items

Total .....€

# F13 Knauf Vidifloor Dry Screed

**Declaration of compliance**

## Declaration of compliance by the installer of the building component

**Installer:**
(name, address)

.....

**Site / building:** .....

.....

**Date of installation:** .....

**Building component / requirements / floor system:** .....

.....

.....

.....

It is certified herewith that the Knauf floor system as stated above has been built and installed in accordance with

**Knauf Technical data Sheet F13 Knauf Vidifloor Dry Screed, edition 2009-03**

with the system components specified there.

.....
Place, date

.....
Signature



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www.knauf.bg

**The structural, statical properties and characteristic building physics of Knauf systems can solely be ensured with the exclusive use of Knauf system components, or other products expressly recommended by Knauf.**

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