

Schlüter®-KERDI-LINE

Drainage

Linear drains for bonded waterproofing assemblies

8.7

Product data sheet

Application and function

Schlüter-KERDI-LINE is a multi-piece, linear drainage system for creating floor-level showers with ceramic tiles, natural stone or coatings.

It consists of a formed stainless steel channel body as well as different grate/frame assembly options. These can be continuously adjusted to different floor covering thicknesses using the supplied installation aid. The frame assemblies are available in 3 versions:

- A profile frame with a 10 mm wide visible surface in a brushed, polished or powder coated finish
- A contour frame with elegant design grates
- A TF frame with minimal visible surface and optimal edge protection.

Schlüter-KERDI-LINE-H with horizontal drain features an integrated odour trap and a drain body.

Height of channel support:

DN 40 (40 mm) = 78 mm

DN 50 (50 mm) = 97 mm

Schlüter-KERDI-LINE-H 50 G2 with a horizontal forward facing drain features an integrated odour trap. In compliance with DIN EN 1253, it has a drain capacity of ≥ 0.8 l/s with an accumulation height of 2 cm and a water trap height of 50 mm.

Height of channel support:

DN 50 (50 mm) = 120 mm

Schlüter-KERDI-LINE-F with a horizontal forward facing drain features an odour trap integrated in the drain body.

Height of channel support:

DN 40 (40 mm) = 60 mm

DN 50 (50 mm) = 97 mm

Schlüter-KERDI-LINE-V, -VS and -KERDI-LINE-VOS for vertical drainage, e.g. through the floor level, is available with various equipment. KERDI-LINE-V



has an odour trap built into the drain body. KERDI-LINE-VS and KERDI-LINE-VOS are delivered with a trap section – including with off-centre drain for KERDI-LINE-VOS.

Height of channel support:

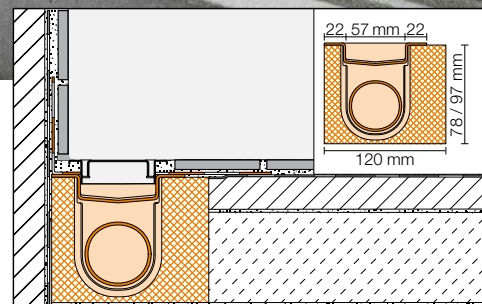
DN 50 (50 mm) = 24 mm

Schlüter-KERDI-LINE-V 50 G2 for vertical drainage features an integrated odour trap. In compliance with DIN EN 1253, it has a drain capacity of ≥ 1.0 l/s with an accumulation height of 2 cm and a water trap height of 50 mm.

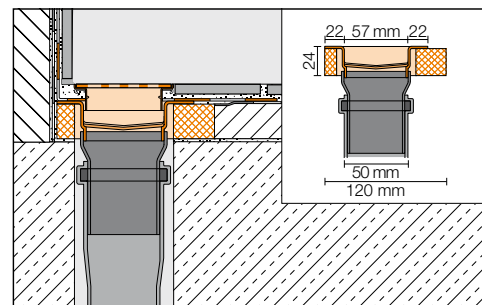
Height of channel support:

DN 50 (50 mm) = 48 mm

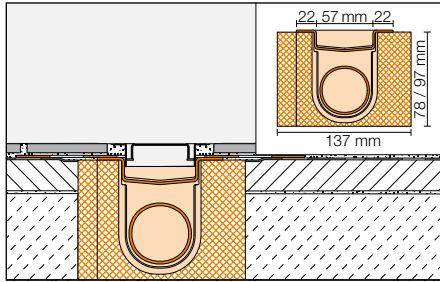
In case of KERDI-LINE-H 50 and KERDI-LINE-H 40, the channel body is inserted into the appropriate polystyrene channel support for quick and easy installation. The channel body and channel support of KERDI-LINE-V, KERDI-LINE-H 50 G2 and KERDI-LINE-F are permanently connected.



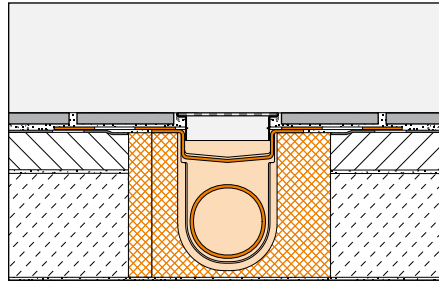
Schlüter-KERDI-LINE-H (Fig.: with profile frame)



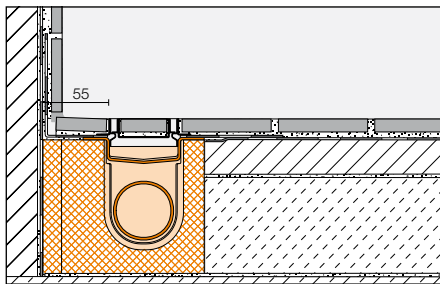
Schlüter-KERDI-LINE-V (Fig.: with contour frame)



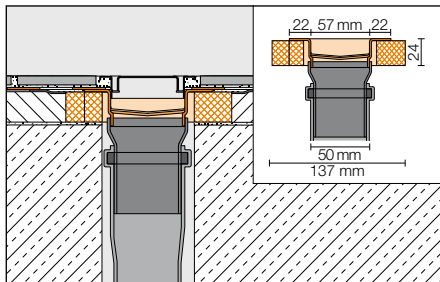
Schlüter-KERDI-LINE-H
(Intermediate installation, see picture with profile frame)



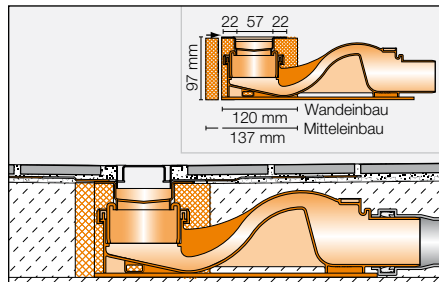
Schlüter-KERDI-LINE-H
(Intermediate installation, see picture with contour frame)



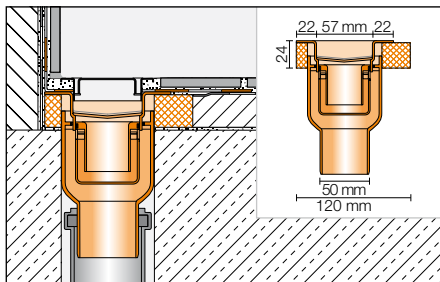
Schlüter-KERDI-LINE-H
(Wall installation, Fig.: with TF frame)



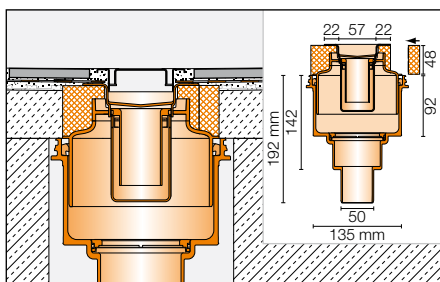
Schlüter-KERDI-LINE-V GSE
(Intermediate installation, see picture with profile frame)



Schlüter-KERDI-LINE-F 50
(Intermediate installation, see picture with profile frame)



Schlüter-KERDI-LINE-V GE
(Wall installation with profile frame)



Schlüter-KERDI-LINE-V 50 G2
(Intermediate installation with profile frame)

The perimeter of the channel body consists of an adhesive flange that is coated with a collar from the KERDI waterproofing system.

It ensures the reliable connection of the channel body to the bonded waterproofing assembly in the floor area and on upright walls.

In conjunction with the waterproofing systems Schlüter-KERDI, Schlüter-DITRA, Schlüter-DITRA-HEAT or Schlüter-KERDI-BOARD and the matching system adhesives Schlüter-KERDI-COLL-L or Schlüter-KERDI-FIX, installers can create certified bonded waterproofing assemblies with connecting linear drainage.

Note: Schlüter-KERDI-LINE and frame assemblies must be installed with cement-based tile adhesives. The use of acetic-crosslinking silicone is not permissible on channels, frames and grates.

KERDI-LINE is a system component that complies with the German waterproofing standard DIN 18534. Together with the above-listed Schlüter-Systems it has general technical approval (abP) in Germany. Please refer to the respective product data sheets for information about the moisture exposure classes according to abP. KERDI-LINE is a system component with European Technical Assessment (ETA) according to ETAG 022 (watertight covering kits).

Schlüter products tested together with KERDI-LINE bear the CE mark.

The visible surfaces of the profile frame and grates – closed or embossed – are made of brushed, polished stainless steel or powder coated stainless steel. A tile pan is available for the profile frame and for the TF frame. In addition, we offer a frameless covering support that is suitable for any height (KERDI-LINE-D).

All drainage systems listed are available for contour frames with design grates as well as for profile frames and TF frames!

KERDI-LINE is suitable for intermediate installation in floors or wall areas.

Length of KERDI-LINE-H, KERDI-LINE-H 50 G2 and KERDI-LINE-V, -VS, -V 50 G2 linear drainage:

50 cm to 180 cm
(for KERDI-LINE-VOS: off-centre from 70 cm to 120 cm),
in increments of 10 cm.

Length of linear drainage for KERDI-LINE-F 40:

50 cm to 120 cm,
in increments of 10 cm.

Length of linear drainage for KERDI-LINE-F 50:

50 cm to 180 cm,
in increments of 10 cm.



Schlüter-KERDI-LINE-GTO is a waterless odour trap. It can be installed instead of a two-piece odour trap. It prevents odours in situations when infrequent use of the drain (in guest bathrooms, holiday homes etc.) could result in the water in the odour trap unit from evaporating. With a drain capacity of at least 0.4 l/s (according to DIN EN 1253), the waterless odour trap can also permanently replace the standard odour trap unit. It may be able to prevent inadequate venting in the drain system. (Cannot be combined with KERDI-LINE-F, KERDI-LINE-VS or KERDI-LINE-VOS). For more information on KERDI-LINE-GTO, see page 17.

Note:

KERDI-LINE-H and KERDI-LINE-V can be installed as a complete assembly with the matching sloped tray Schlüter-KERDI-SHOWER-L including KERDI-waterproofing (see product data sheet 8.8). The drain can also be installed into a sloped screed. The surface of the screed must be waterproofed with Schlüter-KERDI (see product data sheet 8.1), Schlüter-DITRA (see product data sheet 6.1) or Schlüter-DITRA-HEAT (see product data sheet 6.4).

Due to the drain routing construction, KERDI-LINE-H 50 G2, KERDI-LINE-V 50 G2 and KERDI-LINE-F require the installation of a sloped screed. The surface of the screed must be waterproofed with Schlüter-DITRA (see product data sheet 6.1) or Schlüter-DITRA-HEAT. Schlüter-SHOWERPROFILE-S and -R (see product data sheet 14.1) are supplementary components for creating a floor or wall connection. SHOWERPROFILE-S has a triangular design to conceal the sloped lateral edges of floor level showers. Waterproof the surrounding walls with Schlüter-KERDI (see product data sheet 8.1). As an alternative, create a waterproofing assembly with Schlüter-KERDI-BOARD (see product data sheet 12.1).

Soundproofing

The **Schlüter-KERDI-LINE-SR** is a sound insulation panel for soundproofing as specified in DIN 4109, VDI 4100, ÖNORM B 8115-2 or SIA 181. It complies with impact sound and installation noise limits in certified assembly variants of KERDI-LINE-H 40, KERDI-LINE-H 50 and KERDI-LINE-KL F. The Schlüter-KERDI-LINE-SR sound insulation panel also meets requirements for user noise limits. Please refer to our KERDI-LINE-SR Planning Tool for further details.

Material

The channel bodies with a length of up to 120 cm are made of formed stainless steel V4A (material no. 1.4404 = AISI 316L). From a length of 130 cm the channel bodies are made of angled, welded and pickled stainless steel V4A (material no. 1.4404 = AISI 316L). They feature a flange with a pre-adhered KERDI collar. This material is a waterproofing membrane of soft polyethylene with a special fleece fabric laminated on both sides.

Depending on the type, the drain bodies are made of high-impact resistant polypropylene (PP) or acrylonitrile butadiene styrene (ABS).

The odour trap is made of fibre-reinforced polypropylene (PP).

The stainless steel frames and grates are available in the following material version: V4A, material no. 1.4404 = AISI 316L.

Finish options of profile frames and grates:

EB = brushed stainless steel

EP = polished stainless steel

EC = stainless steel, powder coated

The channel support is made of high impact resistant, expanded polystyrene (EPS).

KERDI-LINE-SR is a special polyester (PES) fleece fabric. It is odourless, recyclable and non-rotting. Height = approx. 10 mm

Material properties and areas of application:

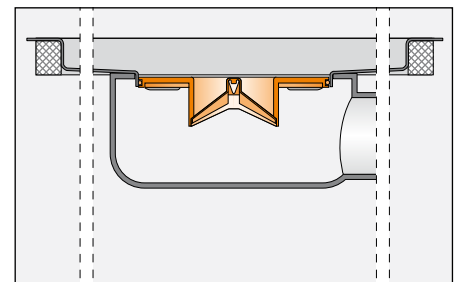
The channel bodies, frames and grates are tested, certified and classified as K3 according to DIN EN 1253. This class refers to areas without vehicle traffic, e.g. wetrooms in apartments, nursing homes, hotels, schools, and public washroom and shower facilities.

Channel bodies, frames and grates are suitable for wheelchair traffic.

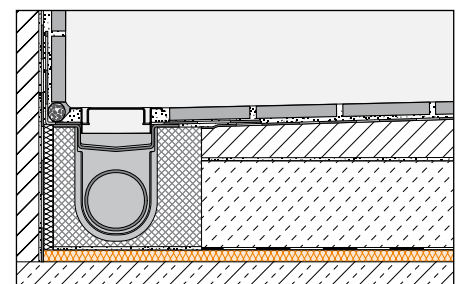
KERDI-LINE in the brushed stainless steel V4A version (material no. 1.4404 = AISI 316L) is especially suitable for applications requiring resistance against chemical exposure and high mechanical stresses.

However, stainless steel of quality 1.4404 is not resistant to all chemical stresses. This stainless steel is not suitable for stresses such as hydrochloric and hydrofluoric acid or certain chloride and brine concentrations. In certain cases, this also applies to sea-water pools. The suitability of a proposed floor drain system must be verified based on the anticipated chemical, mechanical and/or other stresses. Aggressive cleaning products must not be used.

The profile frames as well as the matching stainless steel grate styles A, B and C are also available with textured finishes. These are surfaces with a natural appearance. The stainless steel is pre-treated, then powder coated with a polyurethane covering. The colour-stable coating is UV and weather-resistant. The visible edges must be protected against abrasion or scratching.



Schlüter-KERDI-LINE-GTO
(Waterless odour trap)



Schlüter-KERDI-LINE-SR
(Installation example KERDI-LINE-H 40, assembly B see "Planning Tool Schlüter-KERDI-LINE-SR")



Notes

The set includes a special cleaning brush with instructions for simple periodic and proper, regular cleaning of the odour trap and the channel body.

All cleaning agents must be free of hydrochloric and hydrofluoric acid.

Avoid contact with other metals, such as regular steel, to prevent corrosion. This also includes tools such as trowels or steel wool, i.e. tools used to remove mortar residue.

Do not use abrasive cleaning agents on the sensitive surfaces (especially for EP = polished stainless steel).

We recommend the use of the stainless steel cleaning polish Schlüter-CLEAN-CP.

Installation

The section below lists the work steps for installing the linear drainage systems.

You will find detailed descriptions in the individual installation manuals:

Schlüter-KERDI-LINE-H

Schlüter-KERDI-LINE-H 50 G2

Schlüter-KERDI-LINE-F

Schlüter-KERDI-LINE-V

Schlüter-KERDI-LINE-V 50 G2

Schlüter-KERDI-LINE-A/-B/-C (profile frame)

Schlüter-KERDI-LINE-E/-F/-G (contour frame)

Schlüter-KERDI-LINE-TF

Schlüter-KERDI-LINE-D (covering support)

Installation with low assembly height:

KERDI-LINE-H, KERDI-LINE-H 50 G2 and KERDI-LINE-F are designed to provide horizontal drainage to a floor level. KERDI-LINE-F with its low assembly height of only ≥ 60 mm is especially well suited for restoration and modernising projects. If drainage through a floor level is possible, a product such as KERDI-LINE-V allows for an assembly height ≥ 24 mm.

Schlüter®-KERDI-LINE-H

Horizontal drain

1. Install the channel support on a level and plumbed substrate. In case of uneven surfaces or for height adjustment, you can also install the drain body over adequately spaced spots of mortar or on a full levelling layer.

In case of wall installation, align the channel body to match the thickness of the wall covering.

When using the TF frame, we recommend the following approach due to the larger distance from the wall of 22 mm

(see Fig. 3): Position the channel body farther away from the upright wall using the fill strip provided. Then bevel the rear tile strip. You also have the option to compensate for the difference to the upright wall using suitable material, e.g. Schlüter-KERDI-BOARD, 9 mm.

For intermediate installation, use the polystyrene fill strip to create symmetrical dimensions for the channel support.

Note: Install the sound insulation membrane KERDI-LINE-SR to optimise the sound insulation of the shower area. Also place an edge insulation strip in the edge area.

Loosely abut the sound insulation panels on the level solid ceiling. Verify that the imprinted side is facing up. Cover the joints with the joint tape Schlüter-DITRA-SOUND-KB to avoid sound bridges.

Further installation details of certified system assemblies that comply with the sound insulation requirements and applicable standards and guidelines can be found in the Planning Tool.

2. Insert the channel body into the channel support together with a drain pipe that is cut to the corresponding size. Then connect the drain pipe to the existing drainage system of the building.

Perform a water tightness test.

3. Next, install the sloped tray Schlüter-KERDI-SHOWER-LT or sloped tray Schlüter-KERDI-SHOWER-LTS, abutting the precisely aligned drainage channel KERDI-LINE-H. The sloped tray must be installed flush with the upper edge of the channel support over a sufficiently load bearing levelling layer made of screed or over a bound fill (see product data sheet 8.8).

As an alternative, you can install a sloped screed at the correct height, flush with the upper edge of the channel support.

4. To attach the KERDI collar, apply the sealing adhesive KERDI-COLL-L to the adjoining waterproofing assembly (see product data sheet 8.4), using a 3 x 3 or 4 x 4 mm notched trowel. Fully embed the KERDI collar in the adhesive.

The curing time of the adhesive must be observed. Create the wall connections with KERDI sealing tapes. Adhere them with KERDI-COLL-L.



re 1.
Align channel support

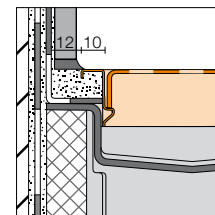


Image of profile frame

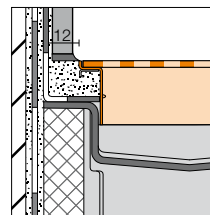


Image of contour frame

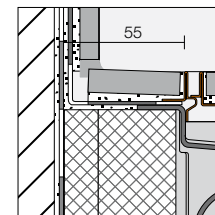


Image 3 of TF frame



Re note:
Sound insulation panel
Schlüter®-KERDI-LINE-SR



re 2.
Place channel body



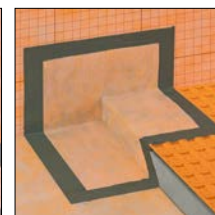
re 3.
Apply levelling screed



re 3.
Push sloped tray under the
edge of the channel body



re 4.
KERDI collar
adhere with KERDI-COLL-L



Matching Schlüter®-KERDI-KERS fittings are available for slope waterproofing if necessary



Schlüter®-KERDI-LINE-H 50 G2

Horizontal drain with water trap height 50 mm

1. To achieve the minimum assembly height of 120 mm, shorten the adapter (max. insertion depth: 90 mm) up to a minimum insertion depth of 15 mm.
 2. Then reattach the adapter to the channel body and tighten the screws.
 3. Set the drain body onto the adapter and push it in place.
 4. Apply cementitious tile adhesive to create a level substrate in the area of the channel support. Set the channel body with the channel support onto the drain body and push it in place. Use spots of cementitious tile adhesive for any height adjustment that may be needed. Secure the drain body in such a way that the adapter cannot slide off. In case of wall installation, align the channel body to match the thickness of the wall covering (see installation examples 4a and 4b). When using the TF frame, we recommend the following approach due to the larger distance from the wall of 22 mm (see Fig. 4c): Position the channel body farther away from the upright wall using the fill strip provided. Then bevel the rear tile strip. You also have the option to compensate for the difference to the upright wall using suitable material, e.g. Schlüter-KERDI-BOARD, 9 mm.
 5. Attach and align the drain pipe of the existing drainage system.
 6. Then install the sloped screed (2%) of the shower surface, with suitable insulation if applicable.
 7. Apply cementitious tile adhesive to the screed surface. The recommended trowel notching is 3 x 3 or 4 x 4 mm for DITRA and 6 x 6 mm for DITRA-HEAT.
 8. Then adhere DITRA or DITRA-HEAT. Seal the abutting joints with KERDI-KEBA, using the installation adhesive KERDI-COLL-L (see product data sheet 6.1 or 6.4). Alternatively, DITRA-PS or DITRA-HEAT-PS could be used, negating the need to follow step 7
- ... Further steps same as for KERDI-LINE-H (from point 4).



re 1.
Shorten adapter



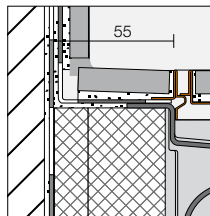
re 2.
Screw adapter back on



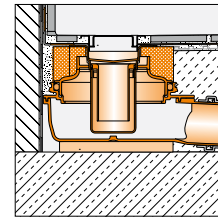
re 3.
Set the drain body onto the adapter



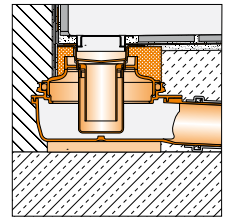
re 4.
Align channel support



re 4c.
TF frame



4a
Installation in front of walls



4b
Installation in walls



re 5.
Align drainage pipe



re 6.
Apply sloped screed



re 7.
Apply cementitious tile adhesive



re 8.
Adhere Schlüter®-DITRA /
DITRA-HEAT



Schlüter®-KERDI-LINE-F

Preparation of KERDI-LINE F40 (a)

- 1a. Place the supplied gasket seal on the outlet of the channel body (pay attention to positioning).
- 2a. Then attach the drain body.
- 3a. Apply cementitious tile adhesive on the level and plumbed substrate and align the channel support. In case of uneven surfaces or for height adjustment, you can also install the drain body over adequately spaced spots of cementitious tile adhesive or on a full levelling layer.



re 1a.



re 1b.



re 2a.



re 2b.



re 3a.



re 3b.

Preparation of KERDI-LINE F50 (b)

- 1b. Apply lubricant to the gasket seal of the drain body or outlet.
- 2b. Then attach the drain body.
- 3b. Apply cementitious tile adhesive to the level substrate in the area of the channel support and sound insulation layer. For height adjustment, you can also position the channel body precisely over adequately spaced spots of cementitious tile adhesive.

Note: In case of wall installation, align the channel body to match the thickness of the wall covering. For intermediate installation, use the polystyrene fill strip to create symmetrical dimensions for the channel support.

If using the TF frame, the distance to the wall is greater, 22 mm. In this case, we recommend the following approach (see image of TF frame): Position the channel body farther away from the upright wall using the fill strip provided. Then bevel the rear tile strip. You also have the option to compensate for the difference to the upright wall using suitable material, e.g. Schlüter-KERDI-BOARD, 9 mm.

4. Then connect the drain body to the drain pipe of the drainage system. Next, align the channel body using a spirit level. Finally, perform a leak test.
5. Now install the sloped screed (2%) of the shower floor, working toward the precisely installed KERDI-LINE-F that has been adjusted with the spirit level.
6. Use cementitious tile adhesive to firmly adhere DITRA (recommended trowel notching: 3 x 3 mm or 4 x 4 mm) to the screed surface as soon as it is ready to bear weight. Alternatively use DITRA-PS which does not need cementitious tile adhesive to bond it to the screed.

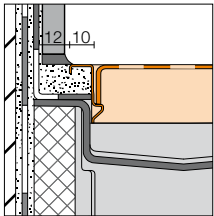


Image of profile frame

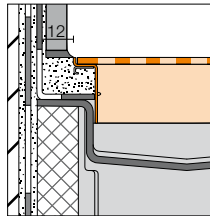


Image of contour frame

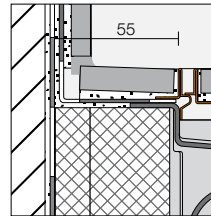


Image of TF frame



re 4.



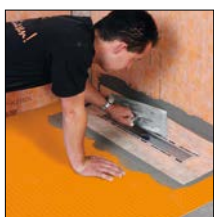
re 4.



re 5.



re 6.



re 7.

7. To attach the KERDI collar, apply the sealing adhesive KERDI-COLL-L to the adjoining waterproofing assembly (see product data sheet 8.4), using a 3 x 3 mm or 4 x 4 mm notched trowel. Fully embed the KERDI collar in the adhesive.

The curing time of the adhesive must be observed. Create the wall connections with KERDI sealing tapes. Adhere them with KERDI-COLL-L.

Tiles adhered over DITRA must have a size of at least 5 x 5 cm (see also product data sheet 6.1).



Schlüter®-KERDI-LINE-V, -KERDI-LINE-VS, -KERDI-LINE-VOS

Vertical drain

1. Install the channel support on a level and plumbed substrate. In case of uneven surfaces or for height adjustment, you can also precisely position the channel support on a levelling layer.

In case of wall installation, align the channel body to match the thickness of the wall covering.

When using the TF frame, we recommend the following approach due to the larger distance from the wall of 22 mm (see image of TF frame): Position the channel body farther away from the upright wall using the fill strip provided. Then bevel the rear tile strip. You also have the option to compensate for the difference to the upright wall using suitable material, e.g. Schlüter-KERDI-BOARD, 9 mm.

For intermediate installation, use the polystyrene fill strip to create symmetrical dimensions for the channel support.

Note: Install the sound insulation membrane KERDI-LINE-SR to optimise the sound insulation of the shower area. Also place an edge insulation strip in the edge area.

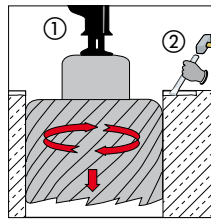
Loosely about the sound insulation panels on the level solid ceiling. Verify that the imprinted side is facing up. Cover the joints with the joint tape DITRA-SOUND-KB to avoid sound bridges.

Further installation details of certified system assemblies can be found in the Planning Tool.

2. Insert the channel body into the channel support together with a drain pipe that is cut to the corresponding size, then connect the drain pipe to the existing drainage system of the building. Perform a water tightness test.

3. Next, install the sloped tray KERDI-SHOWER-LT or sloped tray KERDI-SHOWER-LTS from Schlüter, abutting the precisely aligned drainage channel KERDI-LINE-H. This is done flush with the upper edge of the channel support (see product data sheet 8.8).

As an alternative, you can install a sloped screed at the correct height, flush with the upper edge of the channel support.



re 1.
Core drilling/ceiling opening

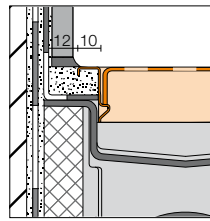


Image: Profile frame

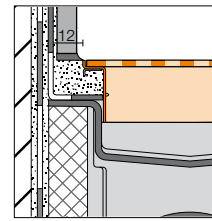


Image of contour frame

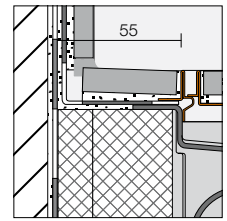


Image of TF frame



re 2.
Insert drain pipe



re 3.
Push sloped tray under the edge of the channel body



re 4.
KERDI collar
adhere with KERDI-COLL-L

4. To attach the KERDI collar, apply the sealing adhesive KERDI-COLL-L to the adjoining waterproofing assembly (see product data sheet 8.4), using a 3 x 3 or 4 x 4 mm notched trowel. Fully embed the KERDI collar in the adhesive.

The curing time of the adhesive must be observed. Create the wall connections with KERDI sealing tapes. Adhere them with KERDI-COLL-L.

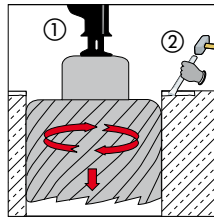


Schlüter®-KERDI-LINE-V 50 G2

Vertical drain with 50 mm water trap height

1. Determine the position of the linear drainage and create a core drilling or ceiling opening for the drain body. Then position the drain body in the opening.
2. To achieve the minimum assembly height of 48 mm, shorten the adapter (max. insertion depth: 90 mm) up to a minimum insertion depth of 30 mm.
3. Then reattach the adapter to the channel body and tighten the screws.
4. Apply cementitious tile adhesive to create a level substrate in the area of the channel support. Set the channel body with the channel support onto the drain body and push it in place. Use spots of cementitious tile adhesive for any height adjustment that may be needed. For wall installation, align the channel body depending on the distance from the wall and the thickness of the wall covering (see installation examples 4a and 4b). If using the TF frame, the distance to the wall is greater, 22 mm. In this case, we recommend the following approach (see image of TF frame): Position the channel body farther away from the upright wall using the fill strip provided. Then bevel the rear tile strip. You also have the option to compensate for the difference to the upright wall using suitable material, e.g. Schlüter-KERDI-BOARD, 9 mm.
5. Then install the sloped screed (2%) of the shower surface.
6. Apply cementitious tile adhesive to the screed surface. The recommended trowel notching is 3 x 3 or 4 x 4 mm for DITRA and 6 x 6 mm for DITRA-HEAT.
7. Adhere DITRA or DITRA-HEAT and seal the abutting joints with KERDI-KEBA, using the installation adhesive KERDI-COLL-L (see product data sheet 6.1 or 6.4).

... Further steps same as for KERDI-LINE-H (from point 4).



re 1.
Core drilling/ceiling opening

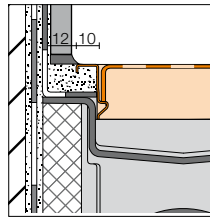


Image: Profile frame

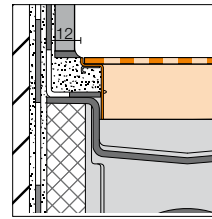


Image of contour frame

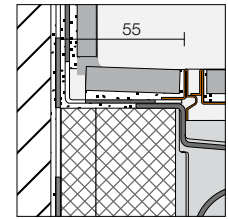


Image of TF frame



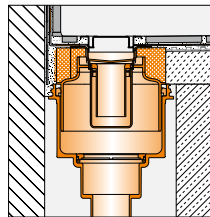
re 2.
Shorten adapter



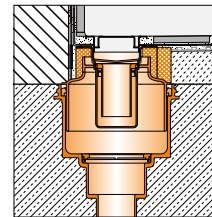
re 3.
Screw adapter back on



re 4.
Place channel body including
channel support



4a Installation in front of walls



4b Installation in walls/ceilings



re 5.
Apply screed



re 6.
Apply thin-bed mortar



re 7.
Adhere Schlüter®-DITRA /
DITRA-HEAT



Fire protection for KERDI-LINE-V 50 G2 ... with Schlüter-KERDI-LINE-BS or -KERDI-LINE-ZBS

As specified by approval number Z-19.17-1719, the system components prevent the spread of fire to another floor level. The fire protection insert (Art no. KL BS) is placed within the drain body of the linear drainage set KERDI-LINE-V 50 G2.

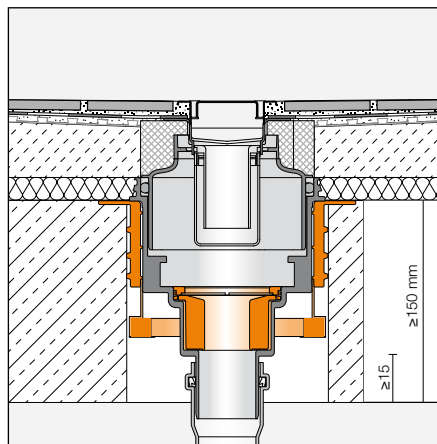
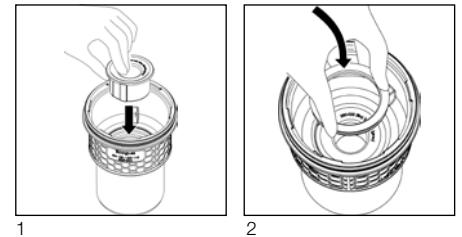
Installing the fire protection insert KL BS:

1. Set the fire protection insert in place (Fig. 1).
2. Then insert the clamping ring, using the supplied lubricant (Fig. 2).

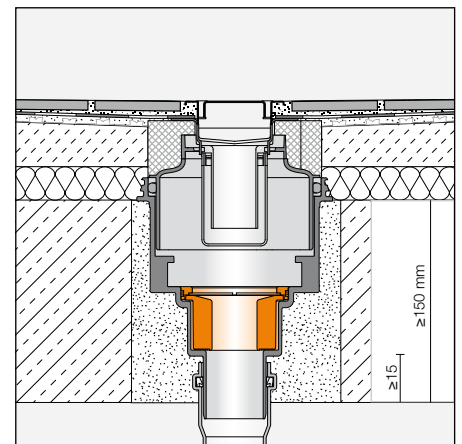
The conduit gasket (Art. no. KD ZBS), which can optionally be fitted into the core hole ($\varnothing$ 160 mm), safely prevents the spread of heat, fire and smoke when temperatures exceed approximately 150°C. The source material contained in the fire protection insert foams up for a fire resistance duration of R120, R90, R60, R30 (depending on the ceiling structure).

The fire protection function of the conduit gasket KD ZBS only applies in conjunction with the fire protection insert KL BS!

As an alternative, the drain body can be encased in concrete or fully incorporated into the solid ceiling with an MG III cement mortar.



Conduit gasket KD ZBS with fire protection function
(only in conjunction with fire protection insert KL BS)



Fire protection insert KL BS



Installation at upright lateral wall

1. Cut the KERDI collar to size for the corner area.
2. Tightly adhere the KERDI collar with KERDI-COLL-L. Cut the supplied internal corner piece Schlüter-KERDI-KERECK to size.
3. ... and adhere it with KERDI-COLL-L.



re 1.
Cut the KERDI collar to size



re 2.
Adhere the KERDI collar/cut the KERECK internal corner to size



re 3.
Retrofit KERECK internal corner

Installing the profile and contour frame

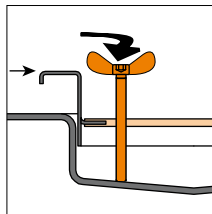
1. Insert the frame with the spacer strip.
2. Adapt the profile and contour frames to the thickness of the covering using the height adjustment aid. Depending on the version, the TF frames have a fixed height and are embedded into the bed of cementitious tile adhesive using their tile leg (see drawings).
3. Embed the profile and the contour frame fully using cementitious tile adhesive. For optimal load transfer, avoid hollow chambers during embedding. Then fully embed the covering. Make sure that all frame versions are flush with or just slightly below the covering surface. The frame joint is filled with cementitious tile adhesive.
4. Remove the spacer strip and height adjustment aid after curing. You are now ready to attach the grate.



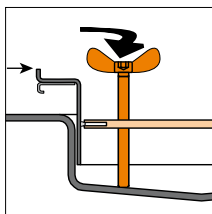
re 1.
Insert frame including spacer strip



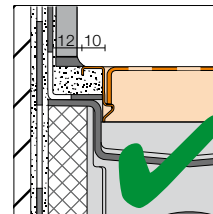
re 2.
Use height adjustment aid to adapt the frame ...



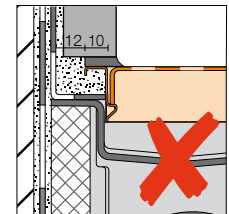
re 2.
... to the thickness of the covering (Image of profile frame)



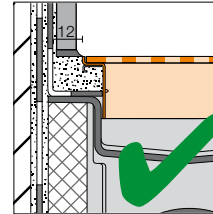
re 2.
... to the thickness of the covering (Image of contour frame)



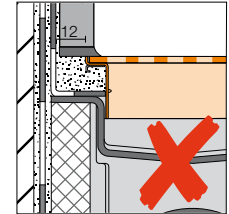
Correct installation
(Image of profile frame)



Incorrect installation
(Image of profile frame)



Correct installation
(Image of contour frame)



Incorrect installation
(Image of contour frame)

Note: Remove the protective foil from profile frame versions with a polished finish before grouting. Tile adhesive must be removed immediately.



re 3.
Fill space below frame/
fully embed tiles



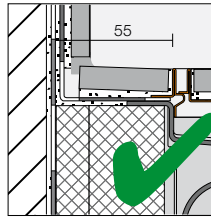
re 4.
Attach grate



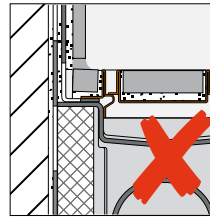
Installing the TF frame

Installation at upright lateral wall

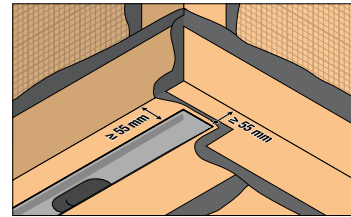
Note: Before using the TF frame, you must check whether the distance between the channel body and the wall is correct.



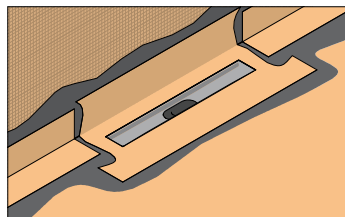
Correct installation



Incorrect installation

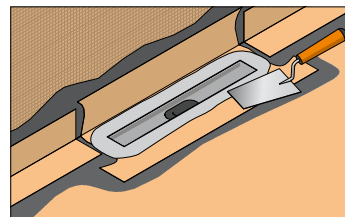


1. Tightly adhere the KERDI collar and the Schlüter-KERDI-KERECK internal corners included in the scope of material with KERDI-COLL-L.

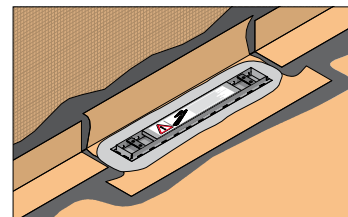


re 1.

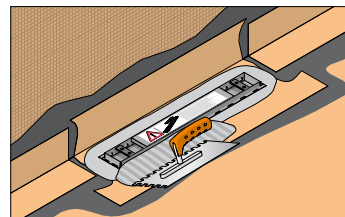
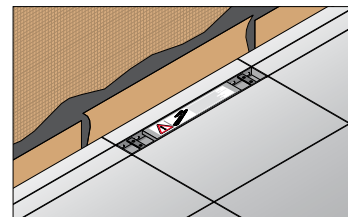
2. Then apply the cementitious tile adhesive in the area of the drainage channel.

re 2.
Apply cementitious tile adhesive

3. Depending on the version, the TF frames have a fixed height and are embedded into the bed of cementitious tile adhesive using their tile leg.

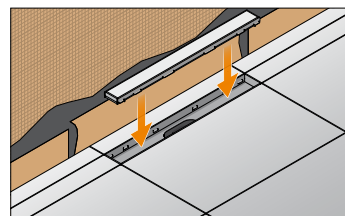
re 3.
Insert frame including spacer strip

4. Apply cementitious tile adhesive to match the covering material and align the covering to the correct height, somewhat higher than the frame.

re 4.
Apply the cementitious tile adhesive to match the covering material and...re 5.
align the covering to the correct height, somewhat higher than the frame.

5. Remove the spacer strips after curing.

6. Then insert the fully tiled tray.

re 6.
Remove the spacer strip after curing. Then insert the fully tiled tray.

Note: The use of acetic-crosslinking silicone is not permissible on channels, frames and grates.



Installing the Schlüter®-KERDI-LINE-D frameless covering support

1. For **wall installation**, adhere the cover strip facing the wall, as shown, after removing the protective foil.

2. Then place the spacers in the channel body...

3. ... and install the covering of the shower area up to the channel body. Remove any excess cementitious tile adhesive completely. Seal any open areas in the adhesive layer (see note).

4. In **wall installation**, the width (B) of the covering corresponds to the clearance from the wall to the inside edge of the spacer less 1 mm.

For **intermediate installation**, the width of the covering corresponds to the inside width of the spacer (= 50 mm).

At the exposed edges, the cover can be adapted to the joint width of the entire covering. It can also be installed as a perimeter drainage.

5. Remove the spacers once the covering has cured. Next apply cementitious tile adhesive to the covering support.

6. Then adhere the covering with cementitious tile adhesive and align it. Leave the area of the covering support open when installing the cement grout.

Note: Remove any excess cementitious tile adhesive completely. Seal any open areas in the adhesive layer.

Note: The use of acetic-crosslinking silicone is not permissible on channels, frames and grates.



re 1.
For wall installation: adhere cover strips facing the wall



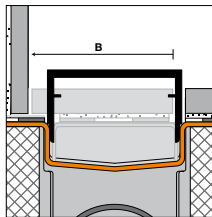
re 2.
Place spacers in the channel body



re 3.
install shower covering up to them



re 4.
measure the covering for the covering support...



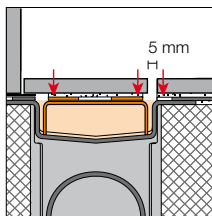
re 4.
... see description for dimension "B"



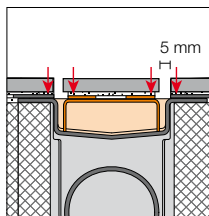
re 5.
Apply cementitious tile adhesive to covering support



re 6.
Adhere covering - leave the area of the covering support open when applying grout



for wall installation note



for intermediate installation note



Product overview:

Channel lengths

mm	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
KERDI-LINE-H	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-H 50 G2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-F 40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-F 50	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-V	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-V 50 G2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-VS	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KERDI-LINE-VOS	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Profile frame/classic grate, polished stainless steel

mm	500	600	700	800	900	1000	1100	1200
Profile frame, H = 19 mm	•	•	•	•	•	•	•	•
Grate styles A and B	•	•	•	•	•	•	•	•
Tile pan C	•	•	•	•	•	•	•	•

Contour frame/design grates, brushed stainless steel

mm	500	600	700	800	900	1000	1100	1200
Contour frame, H = 23 mm	•	•	•	•	•	•	•	•
Design grate styles E/F/G	•	•	•	•	•	•	•	•
Tile pan C	•	•	•	•	•	•	•	•

TF frame/tile pan, stainless steel

mm	500	600	700	800	900	1000	1100	1200
TF frame, H = 6 mm	•	•	•	•	•	•	•	•
TF frame, H = 12.5 mm	•	•	•	•	•	•	•	•
TF frame, H = 22.5 mm	•	•	•	•	•	•	•	•
Tile pan H	•	•	•	•	•	•	•	•

Profile frame/classic grate, brushed stainless steel

mm	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
Profile frame, H = 19 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Profile frame, H = 30 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grate styles A and B	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tile pan C	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Covering support D*	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* The length of the selected covering support must match the channel length.

MY Schlüter-KERDI-LINE with custom engraving profile frame/classic grate, brushed stainless steel

mm	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
Profile frame, H = 19 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grate styles A and B	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tile pan C	•	•	•	•	•	•	•	•	•	•	•	•	•	•

*custom engravings available on frames only

Profile frame/conventional grate, powder coated stainless steel

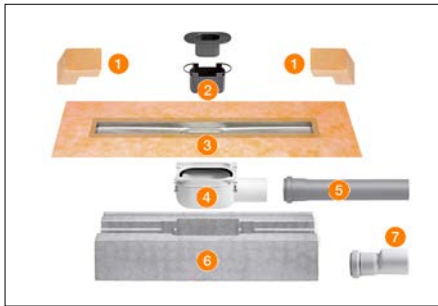
mm	500	600	700	800	900	1000	1100	1200
Profile frame, H = 19 mm	•	•	•	•	•	•	•	•
Grate styles A and B	•	•	•	•	•	•	•	•
Tile pan C	•	•	•	•	•	•	•	•



Versions

Schlüter®-KERDI-LINE-H

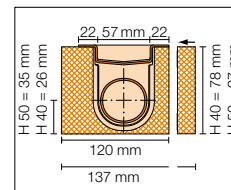
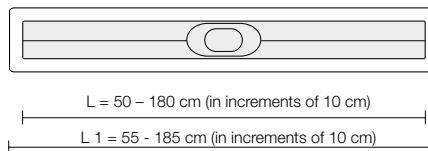
Horizontal drain with integrated odour trap



Drain capacity DN 40 according to DIN EN 1253:
for 2 cm accumulation height = 0.5 l/s (30 l/min)
for 1 cm accumulation height = 0.42 l/s (25 l/min)
Water trap height: 25 mm

Drain capacity DN 50 according to DIN EN 1253:
for 2 cm accumulation height = 0.6 l/s (36 l/min)
for 1 cm accumulation height = 0.57 l/s (34 l/min)
Water trap height: 30 mm

- 1 corner seal (for lateral wall connection)
- 2 two-part odour trap
- 3 channel body with sealing collar
- 4 drain body
- 5 drain pipe
- 6 channel support
- 7 DN 40 to DN 50 adapter (for KERDI-LINE 40 only)



Cross-section

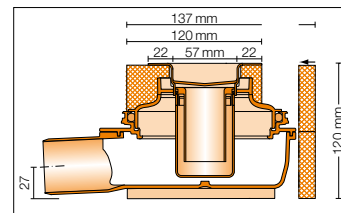
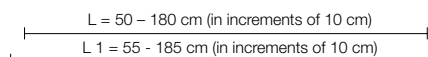
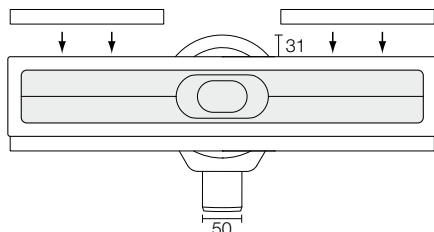
Schlüter®-KERDI-LINE-H 50 G2

Horizontal drain with integrated odour trap



Drain capacity DN 50 according to DIN EN 1253:
for 2 cm accumulation height = 0.8 l/s (48 l/min)
for 1 cm accumulation height = 0.72 l/s (43 l/min)
Water trap height: 50 mm

- 1 corner seal (for upright wall connection)
- 2 channel body with sealing collar and channel support
- 3 two-part odour trap
- 4 adapter
- 5 drain body

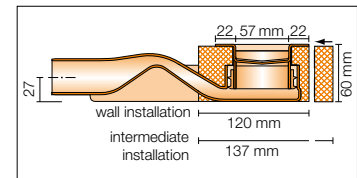


Cross-section

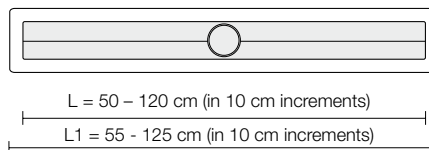
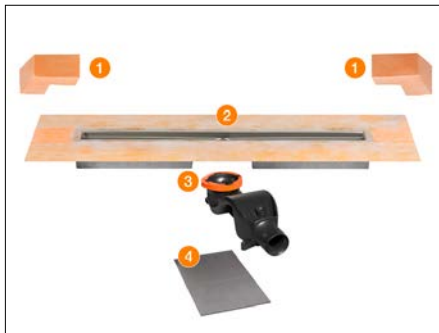
**Schlüter®-KERDI-LINE-F 40****Horizontal drain with built-in odour trap within the drain body**

Drain capacity DN 40 according to DIN EN 1253:
for 2 cm accumulation height = 0.45 l/s (26 l/min)
for 1 cm accumulation height = 0.42 l/s (25 l/min.)
Trap height 25 mm

- | |
|--|
| 1 corner seal (for upright wall connection) |
| 2 channel body with sealing collar and channel support |
| 3 lip seal |
| 4 drain body with odour trap |

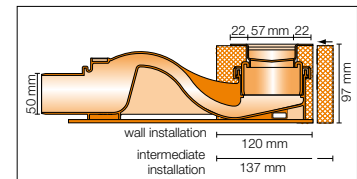


Cross-section

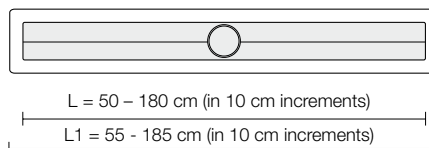
**Schlüter®-KERDI-LINE-F50****Horizontal drain with built-in odour trap within the drain body**

Drain capacity DN 50 according to DIN EN 1253:
for 2 cm accumulation height = 0.80 l/s (48 l/min)
for 1 cm accumulation height = 0.75 l/s (45 l/min)
Water trap height: 50 mm

- | |
|--|
| 1 corner seal (for upright wall connection) |
| 2 channel body with sealing collar and channel support |
| 3 drain body with odour trap |
| 4 sound insulation membrane of drain body |

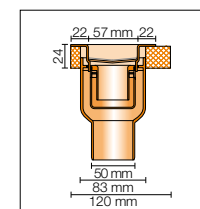


Cross-section

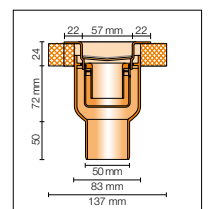
**Schlüter®-KERDI-LINE-V****Vertical drain with integrated odour trap**

Drain capacity DN 50 according to DIN EN 1253:
for 2 cm accumulation height = 0.8 l/s (48 l/min)
for 1 cm accumulation height = 0.75 l/s (45 l/min)
Water trap height: 30 mm

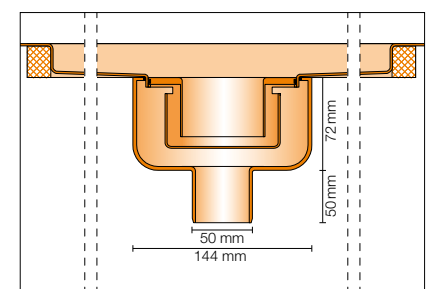
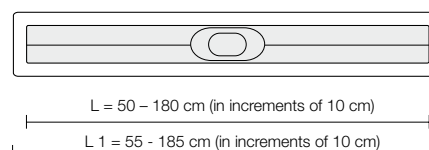
- | |
|---|
| 1 corner seal (for lateral wall connection) |
| 2 channel body with sealing collar |
| 3 channel support |
| 4 drain pipe |
| 5 two-part odour trap |
| 6 drain body |



Wall installation cross-section



Intermediate installation cross-section

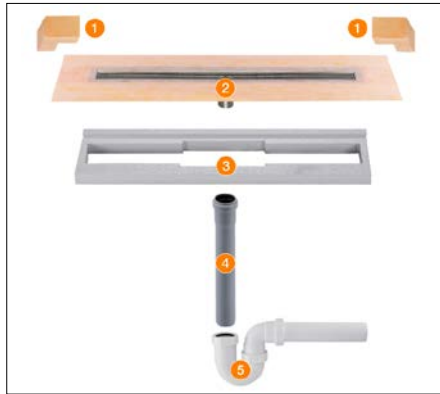


Longitudinal section, wall/intermediate installation



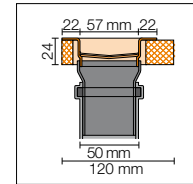
Schlüter®-KERDI-LINE-VS /-VOS

Vertical drain with trap

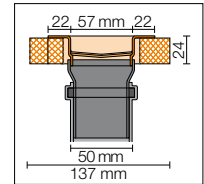


Drain capacity DN 50 according to DIN EN 1253:
for 2 cm accumulation height = 1.0 l/s (60 l/min)
for 1 cm accumulation height = 0.95 l/s (57 l/min)
Water trap height: 50 mm

- 1 corner seal (for lateral wall connection)
- 2 channel body with sealing collar
- 3 channel support
- 4 drain pipe
- 5 trap section

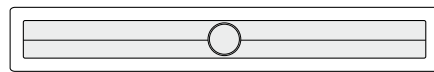


Wall installation cross-section



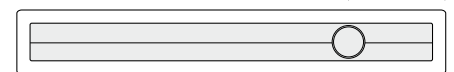
Intermediate installation cross-section

Schlüter®-KERDI-LINE-VS



L = 50 - 180 cm (in increments of 10 cm)
L 1 = 55 - 185 cm (in increments of 10 cm)

Schlüter®-KERDI-LINE-VOS



L = 70/80/90/100/110/120 cm
L 1 = 75 /85/95/105/115/125 cm

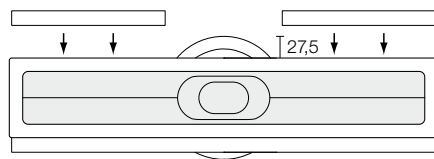
Schlüter®-KERDI-LINE-V 50 G2

Vertical drain with integrated odour trap

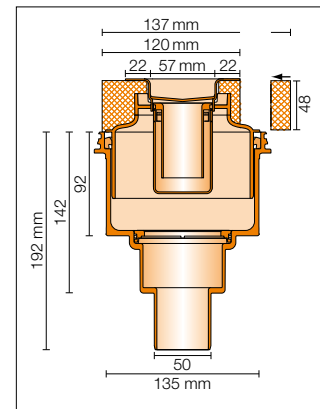


Drain capacity DN 50 according to DIN EN 1253:
for 2 cm accumulation height = 1.0 l/s (60 l/min)
for 1 cm accumulation height = 0.95 l/s (57 l/min.)
Trap height 50 mm

- 1 corner seal (for lateral wall connection)
- 2 channel body with sealing collar
- 3 channel support
- 4 drain pipe
- 5 two-part odour trap
- 6 adapter
- 7 drain body



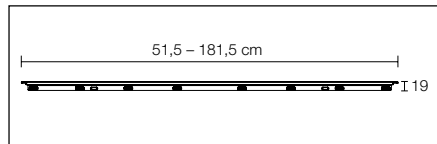
L = 50 - 180 cm (in increments of 10 cm)
L 1 = 55 - 185 cm (in increments of 10 cm)



Cross-section

**Profile frame, H= 19 mm**

powder coated, brushed or polished
... for assembly heights from 3 to 15 mm

**Colours:**

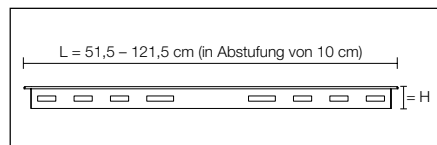
AP = soft apricot
BH = bahama
BW = brilliant white
CA = caramel
C/A = MyDesign
by Schlüter-Systems*

G = grey
GM = grey metallic
GS = graphite black
HB = light beige
HG = light grey
NB = nut brown
PG = pastel grey
SP = soft peach
W = white

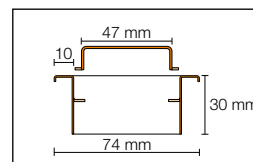
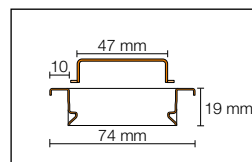
MBW = matte brilliant white
MGS = matte graphite black
TSI = textured ivory
TSC = textured cream
TSBG = textured beige grey
TSB = textured beige
TSSG = textured stone grey
TSG = textured grey
TSOB = textured bronze
TSLA = textured light anthracite
TSDA = textured dark anthracite
TSR = textured rustic brown

Profile frame, H= 30 mm

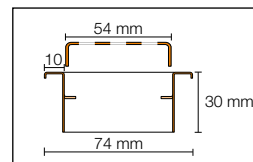
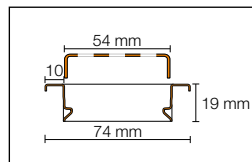
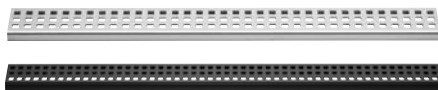
brushed
... for assembly heights from 13 to 25 mm

**Grate style SOLID (A)**

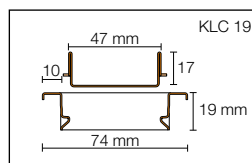
powder coated, brushed or polished

**Grate style SQUARE (B)**

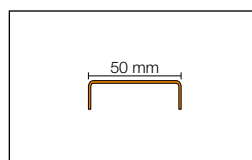
powder coated, brushed or polished

**Tile pan FRAMED TILE (C)**

powder coated, brushed or polished
...KLC 19 - for assembly heights up to 15 mm

**Covering support TILE (D) - frameless**

... suitable for all assembly heights

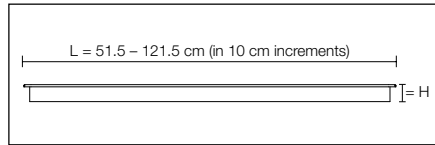


The length of the selected covering support must match the channel length.



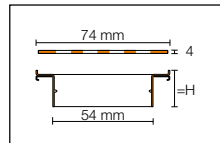
Contour frame, H= 23 mm

... for assembly heights from 6 to 18 mm



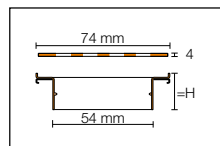
Design grate FLORAL (E)

brushed



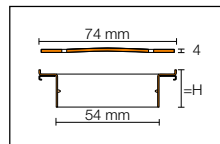
Design grate CURVE (F)

brushed



Design grate PURE (G)

brushed

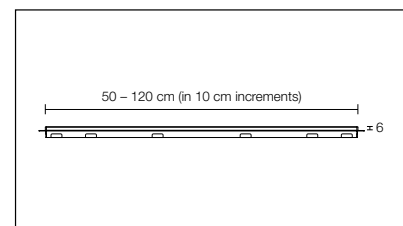
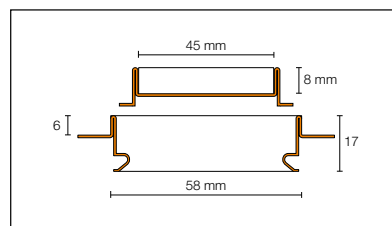


TF frame and tile pan H



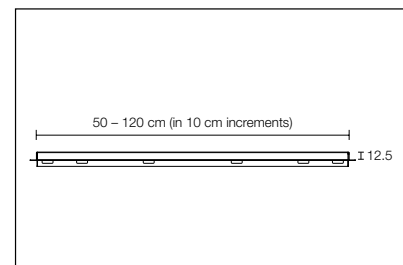
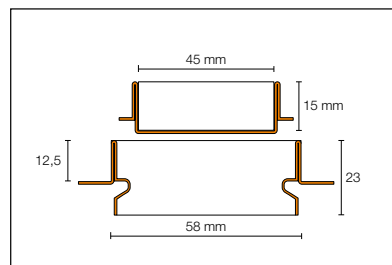
TF frame, H= 6 mm

... for assembly heights up to 6 mm



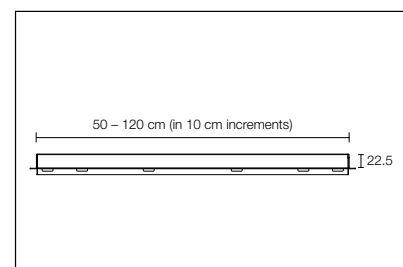
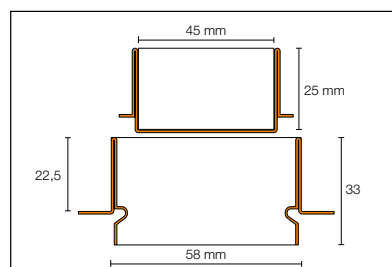
TF frame, H= 12.5 mm

... for assembly heights from 7 to 12 mm



TF frame, H= 22.5 mm

... for assembly heights from 16 to 20 mm





MyDesign by Schlüter-Systems* offers the option to tailor the brushed stainless steel grates and stainless steel frames of the Schlüter-KERDI-LINE product range individually to each customer using modern laser engraving methods.

(For technical properties see profile frame 19 mm and grate styles A, B and C).

* Product advisors of our sales service and our Technical Department will be pleased to assist you with any questions you may have about MyDesign by Schlüter-Systems.

Note:

My Schlüter-KERDI-LINE engravings are not available on polished or colour coated grates and frames or on Schlüter-KERDI-LINE-STYLE grates or KERDI-LINE TF frames.



Deep engraving



Surface engraving



Crosshatch engraving





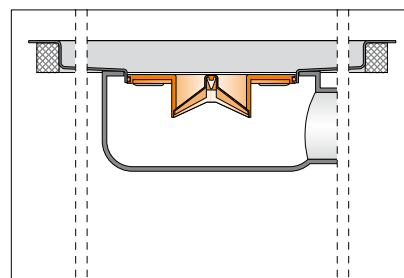
Waterless odour trap Schlüter®-KERDI-LINE-GTO

Odour trap including silicone waterless odour trap for all KERDI-LINE linear drainage systems (except KERDI-LINE-F, KERDI-LINE-VS and KERDI-LINE-VOS). The trap prevents odours in situations when infrequent use of the drain could result in the water in the odour trap unit from evaporating. Drain capacity: min. 0.4/s (according to DIN EN 1253)

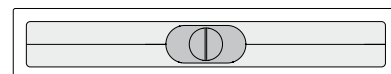
Before inserting the waterless odour trap, remove the 2-part odour trap unit pre-installed in the set!



Replacement odour trap
KERDI-LINE-GTM



Longitudinal section



Top view



Important note:

Remove the trap and clean it using only standard liquid soap at suitable intervals. This is the only way to ensure it remains functional. After inserting the cleaned trap, test its function.

Hand the enclosed care instructions over to the end customer.

Schlüter-Systems KG  Schmölestraße 7 | D-58640 Iserlohn

 +49 2371 971-0  +49 2371 971-1111  info@schluter.de  schluter-systems.com

Schlüter-Systems Ltd  Units 3-6 Bardon 22 Industrial Estate | Bardon Hill | Coalville | Leicestershire | LE67 1TE

 +44 (0) 1530 813396  sales@schluter.co.uk  schluter.co.uk