Schlüter®-KERDI-BOARD-N / -NLT

Niches
Illuminated and non-illuminated installation components

12.2
Product data sheet

Application and function

Schlüter-KERDI-BOARD-N are pre-fabricated installation components for creating niches and shelves for wall areas, made from the multi-functional tile underlayment Schlüter-KERDI-BOARD. They can be covered directly with tiles or with compatible render/plaster covering materials.

The prefabricated **Schlüter-KERDI-BOARD-NLT** sets with LIPROTEC technology enable the installation of illuminated niches in wall areas.

The niches are available in various dimensions and light colours.

Within the niche, the supplied LED modules can be positioned at the front edge, in the centre or at the rear to work with where the tile falls or where the light is wanted. For this purpose, the LED modules are available with plug-and-play connections in varying lengths. Bluetooth controls as well as cables and distributors for multiple connections can be found in the LIPROTEC price list.

Matching Bluetooth controls are included in the scope of supply for the prefabricated **Schlüter-KERDI-BOARD-NLT-BR** sets.

Material

Schlüter-KERDI-BOARD-N/-NLT is a panel made of extruded rigid XPS foam with a thickness of 12.5 mm, which is laminated with a special, cement-free reinforcement material and a fleece fabric on both sides for effective anchoring of thin-bed tile adhesives or rendered covering materials. The upper face of the board is imprinted with 10 x 10 mm gridlines.
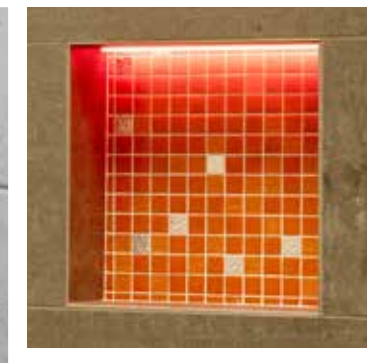
Material properties and areas of application:

Schlüter-KERDI-BOARD-N/-NLT is waterproof and resistant to any chemical stresses that typically occur in conjunction with tiled coverings. Where required, a certified bonded waterproofing assembly can be created with Schlüter-KERDI or -KERDI-BOARD.

KERDI-BOARD-N/-NLT is completely even and will not warp in response to temperature and moisture fluctuations. The material is age-resistant and highly durable.
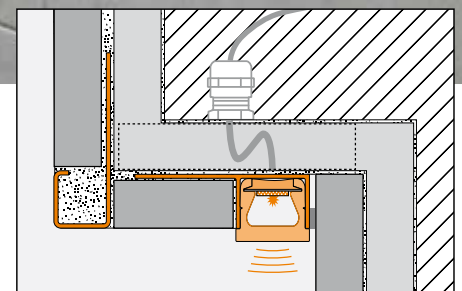
Schlüter®-KERDI-BOARD-NLT

Schlüter®-KERDI-BOARD-N / -NLT

12.5   89 mm

50.5   305 mm   50.5
406 mm
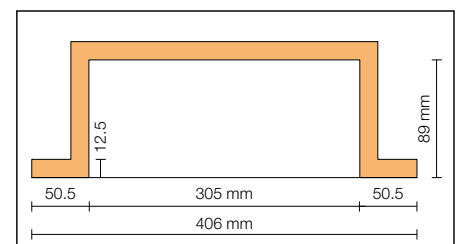
KERDI-BOARD-N/-NLT is ideal for a wide variety of applications.
Substrates must be checked for sufficient stability and other project-related requirements.
In certain cases, the suitability of the Schlüter-LIPROTEC modules must be verified, based on the anticipated chemical or mechanical stresses. The information provided below is intended as a general guideline.
Anodised aluminium: The aluminium features an anodised finish that retains a uniform appearance during normal use.
Aluminium is sensitive to alkaline media.
Cementitious materials, in conjunction with moisture, become alkaline, which may result in corrosion depending on the concentration and length of exposure (aluminium hydroxide formation).
Remove adhesive or grout immediately from visible areas and don't cover freshly installed assemblies with foil.

Areas of application and installation

Schlüter-KERDI-BOARD-N
Installation in Schlüter-KERDI-BOARD:
1. After positioning and precise marking of the outer niche dimensions, cut the corresponding opening in the wall covering.
2. Attach the inserted niche with wood or installation screws, depending on the material of the substrate. The maximum spacing of screws is 250 mm. Use the Schlüter-KERDI-BOARD-ZT washers. Screws must be set into the joints of the abutting joints.
   For additional fixing, the adhesive Schlüter-KERDI-FIX can be applied on the perimeter edge of the niche.
3. If the material is installed in a wetroom, the joints around the outer edge must be covered using Schlüter-KERDI-COLL-L and the supplied KERDI waterproofing collar.

Installation in plasterboard or other panelling:
1. After positioning and precise marking of the outer niche dimensions, cut the corresponding opening in the wall covering.
2. Attach the inserted niche with wood or installation screws, depending on the material of the substructure. The maximum spacing of screws is 250 mm. Set the screws through the niche flanges (spacing approx. 6 mm from the outer edge).
   For additional fixing, the adhesive Schlüter-KERDI-FIX can be applied on the perimeter edge of the niche.
3. Wall areas located in high-moisture areas must be waterproofed with Schlüter-KERDI. Adhere the supplied KERDI waterproofing collar on the flanges of the niche with Schlüter-KERDI-COLL-L. A suitable tile adhesive can be used for the remainder of the wall area (see product data sheet 8.1 for notes on installing Schlüter-KERDI). Then cut the KERDI membrane in the area of the niche insert.
Important:
The following installation notes must be observed when using niches with additional adjustable shelves:
Start by marking the desired position along the lower edge of the adjustable shelf.

Fully embed the tiles in the front and lateral areas of the niche with tile adhesive. To install the adjustable shelf, apply tile adhesive on the sides and rear of the shelf and fit them into the niche so they are supported by the previously installed tiles.
Recommendation: For installations in wetrooms, install the adjustable shelf with a slight slope toward the front. As an alternative, you can install the tiles at a slight slope. This ensures that no water can accumulate in the niche during use.

Installation in KERDI-BOARD

Installation in plasterboard

KERDI-BOARD-NLT:

1. Install the niche as described above. Prior to inserting the niche, connect the plug-and-play cable (lead-out to lead-in).
2. Please refer to the corresponding operating instructions for installing the cable connections, the power supply and the control (QR CODE for web download, see below).
3. The cap of the pass-through socket can be easily split at a designated point to position the cable as required.
4. Place the cap or the parts of the cap into the pass-through socket so that the cable can be connected to the receptacle profile.
5. Adhere the self-adhesive KERDI waterproofing strip to effectively seal the opening around the lead-out cable on both sides. Cut a small opening in the self-adhesive KERDI waterproofing membrane for the lead out cables; this prevents the adhesive from getting into the socket behind.
6. Apply tile adhesive with a notched trowel.
7. Feed the cable through the cable opening of the receptacle profile.
8. Press the trapezoid-perforated anchoring leg of the profile into the adhesive and align it.
9. Firmly press the adjoining tiles into place and align them in such a way that they are flush with the upper profile edge. All tiles in the profile area must be solidly bedded.
10. Leave a joint of approximately 1.5 mm between the receptacle profile and the tile and completely fill the space with grout.
11. Make sure the tiles and adhesive do not exceed 12 mm when tiling the lateral walls.
12. The RGB+W LED tube can be cut to size depending on the opening of the tiled niche.
13. Plug the LED tube into the lead out cable and carefully press it into the receptacle profile.

Note: Schlüter-LIPROTEC modules require no special maintenance or care. Do not use abrasive cleaning agents on the sensitive surfaces. Applying lacquer can repair anodised layers.

All cleaning agents must be free of hydrochloric and hydrofluoric acid, as well as naphtha (ingredient of silicone removers).

Waterproofing with Schlüter-KERDI-BOARD-N

In accordance with the German waterproofing standard DIN 18534, Schlüter-KERDI-BOARD-N can be used in water exposure classes W0-I to W3-I*. Furthermore, Schlüter-KERDI-BOARD-N features the national technical approval (abP) required in Germany.

Moisture load class according to ZDB: 0 to B0, as well as A and C.

Schlüter-KERDI-BOARD-N features European Technical Approval (ETA) pursuant to ETAG 022 (watertight covering kits) and bears a CE mark.

With abP and/or based on ETA according to ETAG 022.

System-certified tile adhesives must be used in areas that require CE-compliance or assemblies according to abP (certificate of technical approval).

Please contact our Technical Department for further information on the use and installation of system-certified tile adhesives or to request the corresponding test certificates and approvals (see also product data sheet 12.1 Schlüter-KERDI-BOARD).

Re 1.

Re 4.

Re 5.

Re 9.

Re 12.

Re 12.

Re 13.

QR code
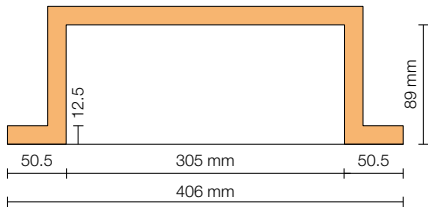to access installation/
operating instructions

Product overview:

Schlüter®-KERDI-BOARD-N

Prefabricated niches/shelves made of 12.5 mm Schlüter-KERDI-BOARD for installation in walls.

Clear width = 305 mm   Clear depth = 89 mm

Clear height	with adjustable shelf
H = 152 mm	
H = 305 mm	
H = 508 mm	•
H = 711 mm	•

Ⓐ Schlüter®-KERDI-BOARD-ZT

Washers made of galvanised steel or stainless steel for attaching Schlüter-KERDI-BOARD to stud frame structures with the respective screws.

Materialgalvanised stainless steel		
Ø 36 mm	•	•

Ⓑ Schlüter®-KERDI-COLL-L

Two component sealant adhesive based on a solvent free acrylate dispersion and a reactive cementitious powder.

Container	4.25 kg
Container	1.85 kg
See product data sheet 8.4	

Ⓒ Schlüter®-KERDI-FIX

MS polymer based elastic adhesive.
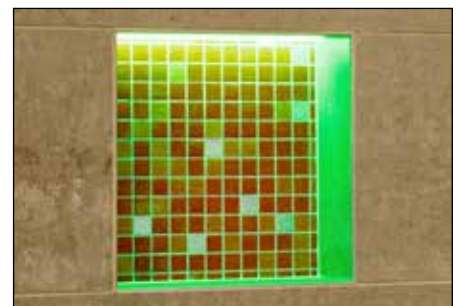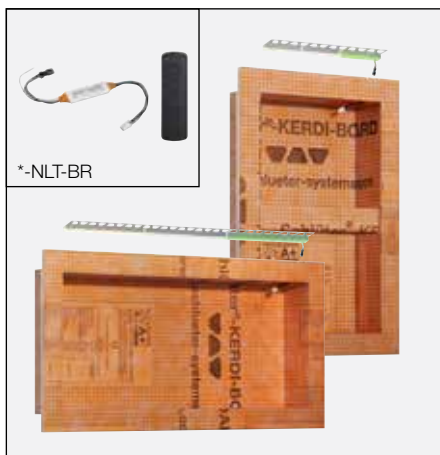
G = grey, BW = brilliant white

Colour	G	BW
Cartridge 290 ml	•	•
See product data sheet 8.3		
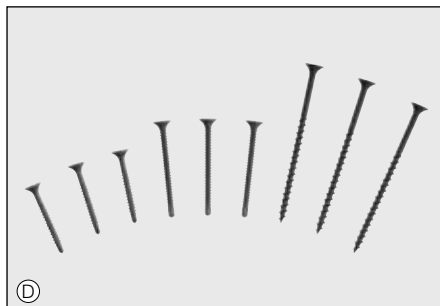
Ⓓ Schlüter®-KERDI-BOARD-ZS

Installation screws for attaching Schlüter-KERDI-BOARD to stud frame structures.

3.5 x 35 mm with drill point (for metal thickness up to 2.25 mm)
3.5 x 55 mm with drill point (for metal thickness up to 2.25 mm)
4.2 x 75 mm coarse threading (for wood structures)

Schlüter®-KERDI-BOARD-NLT / NLT-BR

Prefabricated niches with illumination module, colours NW, WW, RGB+W for installation in walls. *NLT-BR incl. Bluetooth receiver and remote control

Clear depth = 89 mm

Clear dimensions W x H	with adjustable shelf
305 x 305 mm	
305 x 508 mm	•
305 x 711 mm	•
508 x 305 mm	
711 x 305 mm	

Installation of niche set Schlüter-KERDI-BOARD-NLT with accent lighting

Electrical values for KERDI-BOARD-NLT

per module

warm white 3000 K

Niche type	Length m	Total output W	Light current lm	Current rating A	Colour temperature K
KB 12 NL TP1 AE1					
KB 12 NL TP2 AE1	0.3	1.6	80	0.067	
KB 12 NL TP3 AE1					3000
KB 12 NL TP4 AE1	0.5	2.6	133	0.108	
KB 12 NL TP5 AE1	0.7	3.6	187	0.149	

neutral white 4900 K

Niche type	Length m	Total output W	Light current lm	Current rating A	Colour temperature K
KB 12 NL TP1 AE2					
KB 12 NL TP2 AE2	0.3	1.6	84	0.068	
KB 12 NL TP3 AE2					4900
KB 12 NL TP4 AE2	0.5	2.6	141	0.107	
KB 12 NL TP5 AE2	0.7	3.6	197	0.148	

RGB+W

Niche type	Length m	Total output W	Light current lm		Colour temperature K
KB 12 NL TP1 AE9 /..BR*					
KB 12 NL TP2 AE9 /..BR*	0.3	4.4	156		
KB 12 NL TP3 AE9 /..BR*					2700 [1]
KB 12 NL TP4 AE9 /..BR*	0.5	7.3	262		
KB 12 NL TP5 AE9 /..BR*	0.7	10.1	364		

1) Reference: white LED

* incl. Bluetooth receiver

Text template for tenders:

_____units

Schlüter-KERDI-BOARD-N as a pre-fabricated niche (shelf) made of Schlüter-KERDI-BOARD as a tile substrate.

■ - H = 152 mm
■ - H = 305 mm
■ - H = 508 mm
■ - H = 711 mm

… to be supplied and professionally installed according to manufacturer's specifications.

Art. no. _____

Material: _____ ....../unit

Labour: _____ ....../unit

Total: _____ ....../unit

Text template for tenders:

_____ units Schlüter-KERDI-BOARD-NLT / NLT-BR as a pre-fabricated, illuminated niche (shelf) with plug & play system, made of Schlüter-KERDI-BOARD as a tile substrate.

L x W = 305 x 305 mm
L x W = 305 x 305 mm
L x W = 305 x 508 mm
L x W = 305 x 711 mm
L x W = 508 x 305 mm
L x W = 711 x 305 mm

Light colour

■ NW (neutral white)
■ WW (warm white)
■ RGB+W
■ as NLT-BR incl. Bluetooth receiver and remote control

… to be supplied and professionally installed according to manufacturer's specifications.

Art. no. _____

Material: _____ ....../unit

Labour: _____ ....../unit

Total: _____ ....../unit