Schluter®-KERDI-BOARD-SNLT

Shower niche with LIPROTEC LED lighting

Schluter® Systems

Design Your Lit Shower Niche

The Schluter®-KERDI-BOARD-SNLT shower niche with integrated Schluter®-LIPROTEC LED lighting is comprised of three key components designed to integrate for a code-compliant installation: the shower niche with LED light strip, the power supply/driver, and the connection cable.
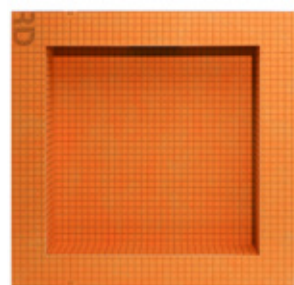
This planning guide will assist you in selecting which shower niche and power supply are right for you and provide guidance in calculating the proper length of LIPROTEC-CW connection cable for your application.
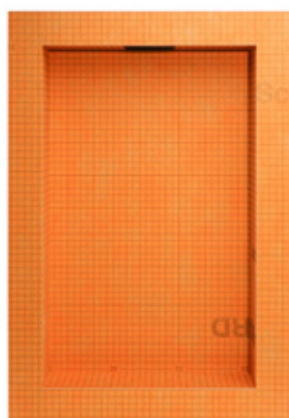
Step 1: Choose Your Niche Size

KERD-BOARD-SNLT is available in 3 sizes designed for a vertical installation and integrates with the Schluter®-Shower System for a watertight assembly.

12" x 12"

12" x 20"

12" x 28"
Largest size includes a prefabricated tile-ready shelf.

Integrated waterproof cable connection box.

Includes

Mounting profile with LIPROTEC LED light strip (warm white)

Metal connection box with cover

Self-adhesive KERDI membrane patch

KERDI-BOARD-SNLT Niche Key Features:

- Prefabricated shower niche made of KERDI-BOARD
- Pre-installed waterproof connection box for a code-compliant installation
- Quick & easy to install, ready to tile

LIPROTEC LED Key Features:

- Length: 11-13/16" *(300 mm)* – designed for installation at the top of the niche, with the niche installed vertically
- Brightness: 118 lumens
- Energy used: 1.7 watts
- Color accuracy (CRI): 95+
- Light appearance: 3000K (Warm White)
- UL listed in USA and Canada
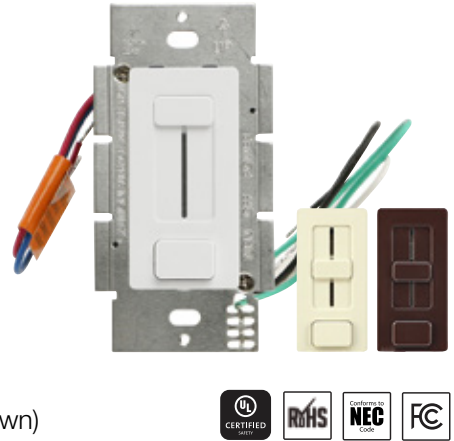
Step 2: Choose Your Power Supply

With LIPROTEC, you have two options when it comes to a power supply: the LIPROTEC-ECX all-in-one driver and dimmer switch or the LIPROTEC-ECD dimmable driver. Here are some key features to consider when choosing one that best fits your requirements.
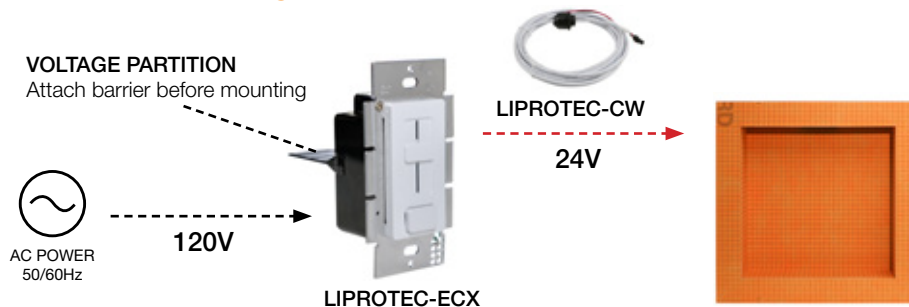
OPTION 1

Schluter®-LIPROTEC-ECX

Key Features:

- All-in-one LED power supply and in-wall dimmer switch
- Eliminates compatibility issues between drivers and dimmer switches
- Better option for a more simplified installation
- Fits in a standard electrical switch box
- Preset dimmer with on/off switch
- Can control multiple KERDI-BOARD-SNLT niches (up to 60 watts)
- Comes with three interchangeable face plates (white, light almond, and dark brown)
- UL listed in USA and Canada

LIPROTEC-ECX Wiring Details:

VOLTAGE PARTITION
Attach barrier before mounting

AC POWER
50/60Hz

120V

LIPROTEC-ECX

LIPROTEC-CW

24V

Note: Main power (120V source power) must come through the bottom of the switch box.

Schluter®-LIPROTEC-ECD

Key Features:

- In-line dimmable driver that is hard wired into your electrical
- Customize your space - Compatible with a range of popular dimmer switches including smart dimmers*, enabling you to match light switches throughout your bathroom
- Can control multiple KERDI-BOARD-SNLT niches (up to 24 watts)
- UL listed in USA and Canada

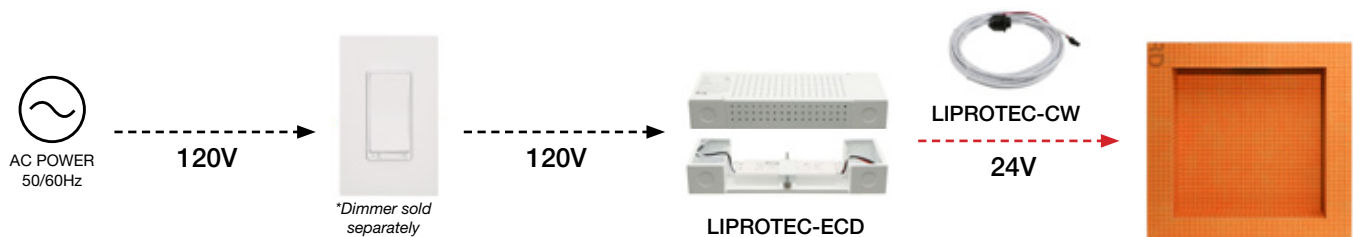*Dimmer switch must be purchased separately, refer to the dimmer compatibility list on page 6.*

Where can the LIPROTEC-ECD driver be installed?

ECD dimmable driver will, ideally, be hidden from view. It must be installed in an accessible location such as a closet, cabinet, or vanity.

- Do not install closer than 2" *(50 mm)* to cabinet walls
- Do not install in a compartment smaller than: L17-1/2" x W8-1/2" x H4-1/4" *(L44.5 cm x W21.5 cm x H11.5 cm)*
- Orientation is not critical
- Suitable for use in dry/damp locations

Please note: Avoid contact with insulation and areas exposed to temperature fluctuations as these conditions will affect the lifespan of the driver.

LIPROTEC-ECD wiring details:

AC POWER 50/60Hz   120V   *Dimmer sold separately*   120V   LIPROTEC-ECD   LIPROTEC-CW   24V

Schluter®-LIPROTEC-ECD

Dimmer Compatibility List

The following tables include a list of dimmer switches that are compatible with our LIPROTEC-ECD driver.

Lutron Dimmers		
Name	Model #	Smart Dimmer
Lutron Ariadni	AYLV-600P	
Lutron Ariadni	AYCL-153P	
Lutron Caseta	PD-6WCL	✔
Lutron Caseta	PD-5NE	✔
Lutron Diva	DVWCL-153PH	
Lutron Diva	DVW-603PGH	
Lutron Diva	DVELV-300P	
Lutron Diva	DVCL-253P	
Lutron Diva	DVCL-153-P	
Lutron Diva	DVLV-600P	
Lutron Homeworks	HWD 6ND WH	✔
Lutron Homeworks QS	HQRD 6ND	✔
Lutron Maestro	MRF2-6ND-120	
Lutron Maestro	MA-PRO	
Lutron Nova T*CL	NTCL 250	
Lutron Nova T	NTLV-603P	
Lutron Radio RA2	RRD-10ND	✔
Lutron Radio RA2	RRD 6CL WH	✔
Lutron Skylark Contour	CTCL-153P	
Lutron Verti	VT-1000MN	

Note: Most Lutron dimmers with "CL" indicated in the model number are compatible with our ECD driver.

Leviton Dimmers		
Name	Model #	Smart Dimmer
Leviton Decora BT	DDL06-BLZ	✔
Leviton Decora	DSE06-10Z	
Leviton Illumatech	IPL06-10Z	
Leviton Sureslide	6674-P	

Miscellaneous Dimmers		
Name	Model #	Smart Dimmer
Legrand Paddle	ADPD453LW2	✔
Forbes & Lomax MLV	FLRLV603P	
Forbes & Lomax INC/HAL	FLR603P	

Note: The above data does not include every dimmer available. Visit manufacturer's website for additional information on individual dimmers, including availability, load limits, and dimming range. You can purchase any of these dimmers at your local retail or specialty store or online.

Smart dimmers include but are not limited to dimmer switches that may be controlled using voice commands, remote controlled using a smart phone or internet connected devices, set up to display different scenes, or used for more complex event-based automation integrating several devices.

Schluter Systems does not warrant and is not responsible for any third-party products.

Step 3: Choose Your Cable Length

Once you have selected your KERDI-BOARD-SNLT shower niche and power supply, the right LIPROTEC-CW cable length for your project needs to be determined.

Schluter®-LIPROTEC-CW

LIPROTEC-CW is a low voltage cable that connects the LIPROTEC-ECX or ECD driver to the LED strip at the top of the shower niche. The cable features a pre-installed waterproof snap-in gland for a secure connection to the top of the niche, and connectors to attach the LED strip.

Available cable lengths:
13' 1-1/2" *(4 m)* | 26' 3" *(8 m)* | 49' 2-1/2" *(15 m)*

Key Features:

- Rated for in-wall installation – no conduit required
- Class 2 low voltage cable (CL2)
- CSA FT4 rated (80°C)
- 2-conductor, 20AWG
- UL listed in USA and Canada

Selecting the Right Cable Length for your Project:

The length of the LIPROTEC-CW cable is dependent upon where the power supply/driver and niche are located. It is necessary to determine where the power will be installed, how the cables are to be run to the niche.

EXAMPLE 1

Connecting the niche and the LIPROTEC-ECX all-in-one driver and dimmer switch.

In this example, the LIPROTEC-ECX driver and dimmer switch is installed to the right of the door and the niche is located on the opposite wall of the bathroom.

- 120V supply cable is run to the bottom of the LIPROTEC-ECX driver on the wall (black line).
- The LIPROTEC-CW cable is run from the top of the ECX driver over to the opposite wall to the shower niche (red line).
- It is recommended to have 1-ft of extra cable at the driver and 2-ft of extra cable at the niche to simplify making the connections.

Measure the distance to cover between the LIPROTEC-ECX driver and the niche, taking into account any obstacles to contour, like in this case, the door.

Distance from Power Supply
to Niche (A+B+C+D+E)   22.2' (266")

Extra Length @ Niche   2'

Extra Length @ Power Supply   1'

TOTAL Cable Length   25.2'

In this case, the 26' 3" (8 m) cable is selected.

Select the LIPROTEC cable that is equivalent or longer than the total cable length determined.

Available cable lengths:

13' 1-1/2" *(4 m)*
26' 3" *(8 m)*
49' 2-1/2" *(15 m)*

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EXAMPLE 2

Connecting the niche and the LIPROTEC-ECD dimmable driver.

In this example, the LIPROTEC-ECD driver is installed in a closet on the opposite side of the wall where the niche is located.

- 120V supply cable is run to the dimmer on the wall and from the dimmer switch to the LIPROTEC-ECD driver (black line).
- The LIPROTEC-CW cable is run from the ECD driver to the shower niche (red line).
- It is recommended to have 1-ft of extra cable at the driver and 2-ft of extra cable at the niche to simplify making the connections.

Measure the distance to cover between the LIPROTEC-ECD driver and the niche.

- - - - - - - - **24V**
- - - - - - - - **120V**

Distance from Power Supply
to Niche (A+B+C)   7.8' (94")

Extra Length @ Niche   2'

Extra Length @ Power Supply   1'

TOTAL Cable Length   10.8'

In this case, the 13' 1-1/2" *(4 m)* cable is selected.

Select the LIPROTEC cable that is equivalent or longer than the total cable length determined.

Available cable lengths:

13' 1-1/2" *(4 m)*
26' 3" *(8 m)*
49' 2-1/2" *(15 m)*

LIPROTEC-CW Calculation Sheet

This product must be installed by a qualified person in accordance with the installation instructions
and with the Canadian Electrical Code Part I (Canada) or the National Electrical Code (U.S.) as applicable.

All electric connections must be made by a qualified person,
according to the electrical and building codes effective in your region.

Calculate your Cable Length

1. Draw your bathroom layout.

2. Mark the position of the top of the niche.

3. Mark the position of your power supply/driver (LIPROTEC-ECX or ECD).

4. Draw the routing of the LIPROTEC-CW cable to make the connection between your driver and the top of the niche. Make sure to consider any obstacles such as door frames, air ducts, etc.

5. Measure the total distance between the driver and the niche, based on the cable route.

6. Add 3' to this total (2' for extra cable at the niche and 1' for extra cable at the driver) to obtain the total cable length you will need.

Distance from Power Supply to Niche	_____	
Extra Length @ Niche	2'	
Extra Length @ Power Supply	1'	
TOTAL Cable Length	_____	

> **Available cable lengths:**
> 13' 1-1/2" *(4 m)*
> 26' 3" *(8 m)*
> 49' 2-1/2" *(15 m)*

7. Select the LIPROTEC cable that is equivalent or longer than the total cable length determined.

   Note: The LIPROTEC-CW cable can be extended. Consult with your local electrician as to the appropriate wire to use according to electrical and building codes effective in your region.
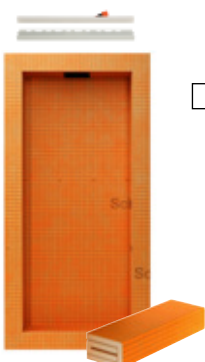
My Project Selections

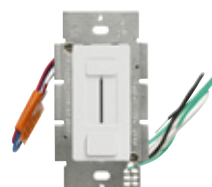### KERDI-BOARD-SNLT Niche

☐ 12" W x 12" H (KB12SNLT1WW)

☐ 12" W x 20" H (KB12SNLT2WW)

☐ 12" W x 28" H - with Shelf (KB12SNLT3WW)

Driver

☐ **LIPROTEC-ECX** All-in-One LED Driver and Dimmer Switch (LTECX1W)

☐ **LIPROTEC-ECD** Dimmable LED Driver (LTECD1W) *Dimmer Switch Not Included*

LIPROTEC-CW Cable

☐ 13' 1-1/2" (LTCW/4M)

☐ 26' 3" (LTCW/8M)

☐ 49' 2-1/2" (LTCW/15M)

Learn More!

- Product details
- Installation video
- FAQs

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