Schlüter®-LIPROTEC

Illustrated price list LT 26-A

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SIMPLY INDIVIDUAL – Schlüter®-LIPROTEC

LED light and ceramics – a combination that keeps gaining fans. Schlüter-LIPROTEC makes it especially easy to create individual light concepts with ceramic or natural stone surfaces. With the Schlüter-LIPROTEC-EASY and Schlüter-LIPROTEC-PRO series, we offer systems that are tailored to the skills of the installers.

Whilst the EASY series is a plug-and-play system that only requires limited expertise in light installation, the PRO series is designed for professional installers who have experience with light installation and wiring. In the CONTROL section you will find the control technology for the two series LIPROTEC-EASY and LIPROTEC-PRO. And finally, Schlüter-LIPROTEC-PLAN provides all the information that professional (light) designers need to create and implement accent lighting with LIPROTEC.

EASY

Individual light installation made easy – due to convenient plug systems and easy mounting, the plug-and-play series provides solutions for every situation, even for installers who are not experts.

- Convenient plug systems
- Easy installation
- Ready for immediate use
- Large selection
- Power supply units up to 100 W

PLAN

In the PLAN section, planners, architects, lighting professionals and installers find all technical information at a glance. With this expertise, there are very few limits to what light installations can be created with Schlüter-LIPROTEC products.

PRO

Lighting for professional installers – with the PRO series of Schlüter-LIPROTEC, turn virtually any room into an oasis of light.

- Individual light installations
- Products with a multitude of combination options
- Limitless possibilities
- The series for professional installers

CONTROL

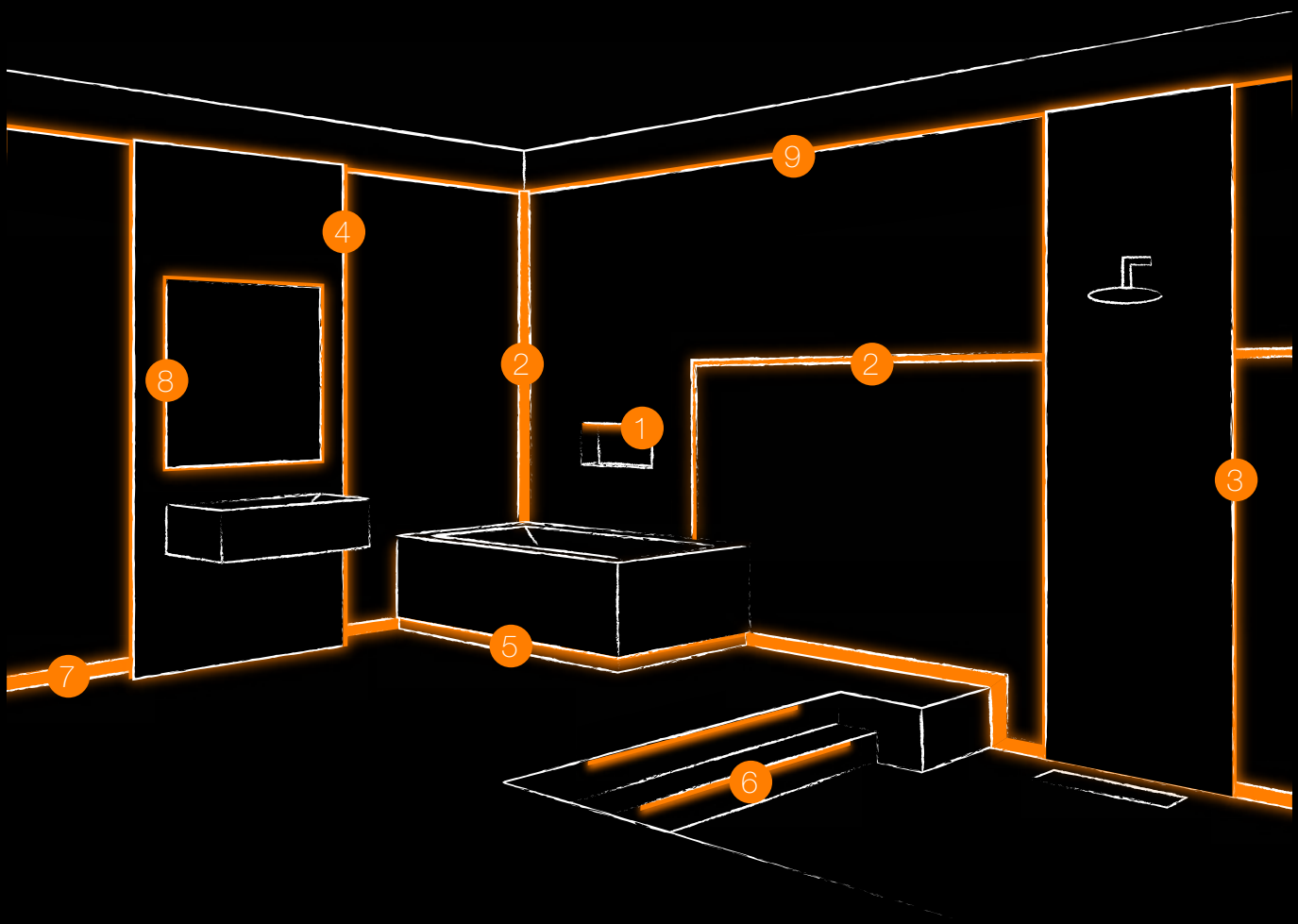
Simply control light – Schlüter-LIPROTEC Bluetooth controls offer a wide range of options for conveniently operating individual light sources.

- Available in EASY and PRO version
- For white and coloured LED lighting solutions
- With proven Bluetooth® technology
- Via remote control, mobile device or wireless rotary control

- Technical details
- Compact product overview
- Materials and surfaces
- Planning aids

AS VERSATILE AS THE LIGHT

Fascinate customers, turn visions of living spaces into reality, immersed in colour and the versatility of light. On the following page you will find the solutions for the various applications, either as EASY (plug-and-play sets) or PRO (individually configurable).



For technical information and properties, refer to the PLAN section starting on page 78.

		EASY Page	PRO Page
1 NICHE			
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NLT-BR – Niche with LED lighting, coloured + white, incl. controller	SET	10	
2 LINEAR LIGHT			
LLPM – LED module, coloured + white | linear light with anchoring leg	MODULE	12	
LLP – LED module, coloured | linear light	MODULE	14	
LLPE – LED module, coloured | linear light | wall corner	MODULE	16	
LL – Linear light, coloured + white			22
LLE – Linear light, coloured + white | Corner			26
3 SHOWER			
LLPM – LED module, coloured + white | linear light with anchoring leg	MODULE	12	
LLP – LED module, coloured | linear light	MODULE	14	
LLPE – LED module, coloured | linear light | wall corner	MODULE	16	
LL – Linear light, coloured + white			22
LLE – Linear light, coloured + white | Corner			26
WS – Wall panel lighting, coloured + white			30
WSK – Wall panel lighting with cable duct, coloured + white	SET		34/58
WSQ – Wall panel lighting with QUADEC finishing profile, coloured + white			38
4 WALL PANEL			
WS – Wall panel lighting, coloured + white			30
WSK – Wall panel lighting with cable duct, coloured + white	SET		34/58
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5 BATHTUB			
LLPM – LED module, coloured + white | linear light with anchoring leg	MODULE	12	
WS – Wall panel lighting, coloured + white			30
WSK – Wall panel lighting with cable duct, coloured + white	SET		34/58
6 STAIRCASE			
PB – Stair edge lighting, white	SET		42/60
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DESIGNBASE-QD – Landing/border profile, white			46
VB – Cove lighting, white			50
8 MIRROR			
LLPM – LED module, coloured + white | linear light with anchoring leg	MODULE	12	
LLP – LED module, coloured | linear light	MODULE	14	
D – Carrier profile for mirror, white	SET		54/62
WS – Wall panel lighting, coloured + white			30
WSK – Wall panel lighting with cable duct, coloured + white	SET		34/58
9 LIGHTING COVE			
WS – Wall panel lighting, coloured + white			30
WSK – Wall panel lighting with cable duct, coloured + white	SET		34/58
VB – Cove lighting, white			50

EASY

Schlüter-LIPROTEC-LLP/-LLPM/-LLPE are LED modules consisting of a fully encased LED strip with homogenous light dispersion and a carrier profile made of aluminium or brushed stainless steel V4A. The LED modules are available either with a fixed white-light colour temperature of 3000 K or 4900 K, or with a RGB+W colour range. The latter makes it possible to choose from more than 16 million hues and colour temperatures from 2500 K to 6500 K.

The robust carrier profile enables applications in areas with exposure to water and vapour, from an installation height of 11 mm. It can be used on walls and ceilings as well as in shower areas. In light traffic indoor areas, the LED modules can even be installed in the floor area. For use in protected outdoor areas and pool landscapes, we recommend using our Schlüter-LIPROTEC-LLPM LED modules with brushed V4A stainless steel profiles.

The LED modules are available as plug-and-play variants in different lengths. Our LED strip can simply be shortened at the marked cutting points and sealed with the supplied end caps to maintain its IP degree of protection. The LED modules can be integrated into a system using cable connections and Y-switches, depending on the light characteristics. Power supply units and LED control components are also designed as plug-and-play variants to facilitate installation. You can find additional accessories such as cable connections, distributors and wall boxes with sealing function in the accessories section.

SETS

		Page
NLT – Niche with LED lighting, coloured + white	SET	8
NLT-BR – Niche with LED lighting, coloured + white, incl. controller	SET	10
LLPM – LED module, coloured + white | linear light with anchoring leg	MODULE	12
LLP – LED module, coloured | linear light	MODULE	14
LLPE – LED module, coloured | linear light | wall corner	MODULE	16

ACCESSORIES

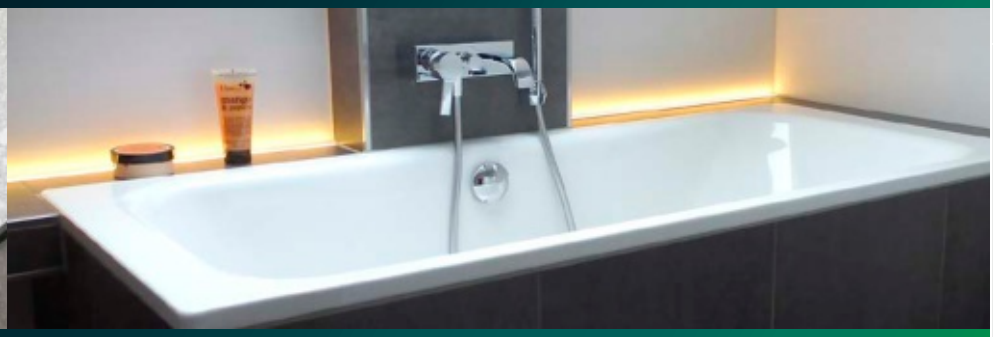
End cap LED strip	18
Power supply units	18
Cables / Distributors	18/19
Adapter / Hollow-wall box / Tool	19

KEY

Explanations of properties / Areas of application	107

LED controls can be found in the CONTROL section from page 68.

For technical information and properties, refer to the PLAN section starting on page 78.



FIND OUT MORE AT:

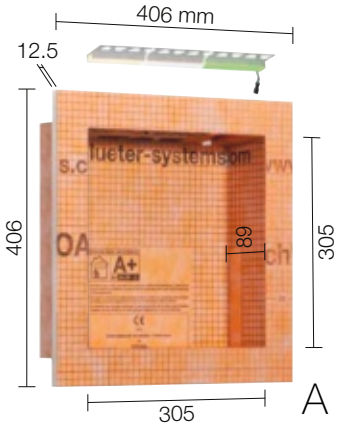
LIPROTEC.CO.UK

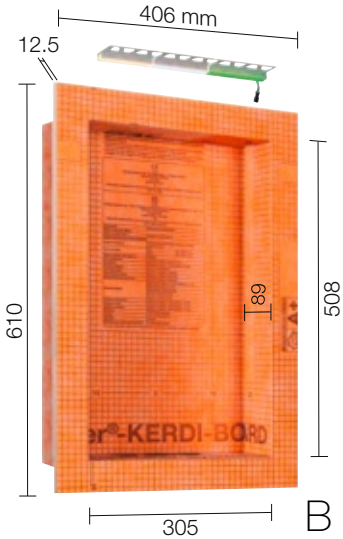
Schlüter®-KERDI-BOARD-NLT

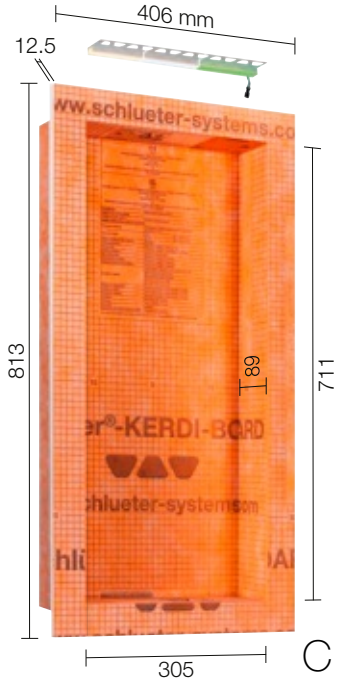
SET IP67

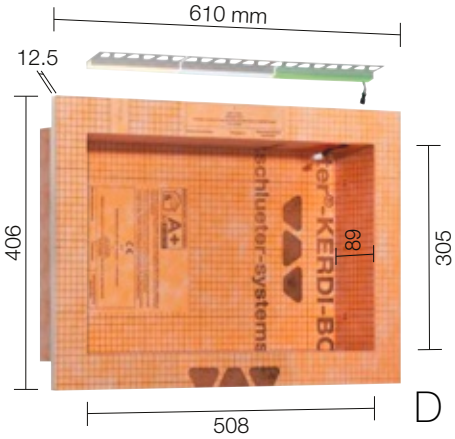
Schlüter-KERDI-BOARD-NLT are prefabricated niche sets made of KERDI-BOARD with plug-and-play LIPROTEC LED technology. They are used to create illuminated niches and storage surfaces for all kinds of wall areas. These niches can be integrated into the Schlüter-KERDI waterproofing system as a bonded waterproofing assembly. The niches are available in different dimensions and lighting options. The rectangular niches are available with illumination either on the long or the short side. The LED module can either be positioned at the front edge, in the centre or at the rear of the wall that is to be tiled. The scope of supply includes all components required for the installation, as well as the cable connection, power supply and sealing collar.
The Bluetooth controls to be ordered separately can be found in the CONTROL section from page 68.
(Product data sheet 12.2)

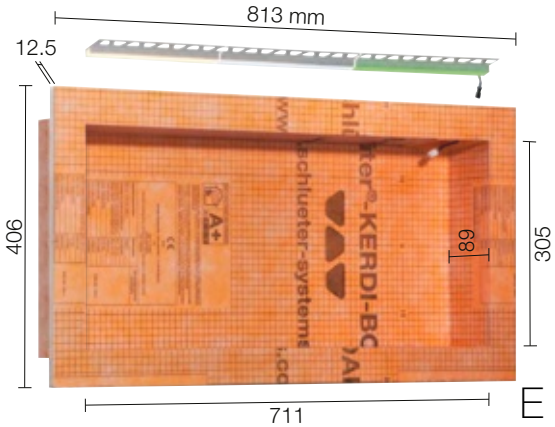
Dimensions of niches











Set includes

Bluetooth controls also available separately!

For explanations of the symbols, refer to page 107.

Niche set with LED lighting

Schlüter®-KERDI-BOARD-NLT

niche set with LED lighting

	B x H x T (mm)	Type of light	Art. No.	€ / Set	PL (Set)
A	305 x 305 x 89	warm white	KB 12 NL TP1 AE 1	**317.74**	20
		neutral white	KB 12 NL TP1 AE 2	**317.74**	20
		RGB + white	KB 12 NL TP1 AE 9	**357.45**	20
B	305 x 508 x 89	warm white	KB 12 NL TP2 AE 1	**357.45**	20
		neutral white	KB 12 NL TP2 AE 2	**357.45**	20
		RGB + white	KB 12 NL TP2 AE 9	**397.17**	20
C	305 x 711 x 89	warm white	KB 12 NL TP3 AE 1	**410.42**	20
		neutral white	KB 12 NL TP3 AE 2	**410.42**	20
		RGB + white	KB 12 NL TP3 AE 9	**450.12**	20
D	508 x 305 x 89	warm white	KB 12 NL TP4 AE 1	**390.56**	20
		neutral white	KB 12 NL TP4 AE 2	**390.56**	20
		RGB + white	KB 12 NL TP4 AE 9	**410.42**	20
E	711 x 305 x 89	warm white	KB 12 NL TP5 AE 1	**476.59**	20
		neutral white	KB 12 NL TP5 AE 2	**476.59**	20
		RGB + white	KB 12 NL TP5 AE 9	**496.46**	20

Note: The dimensions represent interior clearance dimensions. The first length specification is the illuminated length.

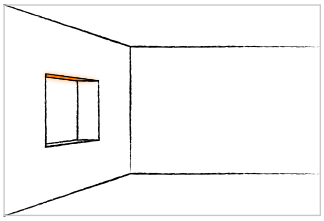
Technical data of the included LED modules

NLT 9 (RGB+W)	
Dimensions of LED (B x H)	17 x 14.5 mm
Rated output (W/Unit)	See table on page 80
Number of LED (u./m)	112
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	90
Included power supply	230 V. 15 W
Included cable	3 m

NLT 1 (warm white)	
Dimensions of LED (B x H)	12 x 10.5 mm
Rated output (W/Unit)	See table on page 80
Number of LED (u./m)	280
Colour temperature (Kelvin)	3000 K
CRI	92
Included power supply	230 V. 15 W
Included cable	3 m

NLT 2 (neutral white)	
Dimensions of LED (B x H)	12 x 10.5 mm
Rated output (W/Unit)	See table on page 80
Number of LED (u./m)	280
Colour temperature (Kelvin)	4900 K
CRI	92
Included power supply	230 V. 15 W
Included cable	3 m

Application areas



Schlüter-SHELF-N offers precisely fitting shelves for the niche sets A, B and C. Please refer to our Schlüter®-PROFILES and SYSTEMS price list for design variants and material qualities.

Note:
In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Schlüter®-KERDI-BOARD-NLT-BR

Schlüter-KERDI-BOARD-NLT-BR are prefabricated niche sets made of KERDI-BOARD with plug-and-play LIPROTEC LED RGB+W technology and with Bluetooth/wireless receivers. The various light colours can be selected either via the supplied remote control or via suitable Bluetooth-compatible smartphones or tablets. They are used to create illuminated niches and storage surfaces for all kinds of wall areas. These niches can be integrated into the Schlüter-KERDI waterproofing system as a bonded waterproofing assembly.
The niches are available in different dimensions. The rectangular niches are available with illumination either on the long or the short side. The RGB+W LED module can either be positioned at the front edge, in the centre or at the rear wall that is to be tiled. The scope of supply includes all components required for the installation, as well as the cable connection, power supply, LIPROTEC-PEBR 4 Bluetooth control and sealing collar. We recommend using a standard light switch for convenience.
(Product data sheet 12.2)

Set includes

Note: The different niche variants are listed on page 8.

Including Bluetooth receiver and remote control!

For explanations of the symbols, refer to page 107.

Niche set with LED lighting and controller

Schlüter®-KERDI-BOARD-NLT-BR

niche set with LED lighting and controller

	B x H x T (mm)	Type of light	Art. No.	€ / Set	PL (Set)
A	305 x 305 x 89	RGB + white	KB 12 NL TP1 AE 9 BR	**589.14**	20
B	305 x 508 x 89	RGB + white	KB 12 NL TP2 AE 9 BR	**628.85**	20
C	305 x 711 x 89	RGB + white	KB 12 NL TP3 AE 9 BR	**681.81**	20
D	508 x 305 x 89	RGB + white	KB 12 NL TP4 AE 9 BR	**642.09**	20
E	711 x 305 x 89	RGB + white	KB 12 NL TP5 AE 9 BR	**728.13**	20

Note: The dimensions represent interior clearance dimensions. The first length specification is the illuminated length.

Technical data of supplied LED module

NLT 9 BR (RGB+W)	
Dimensions of LED (B x H)	17 x 14.5 mm
Rated output (W/Unit)	See table on page 80
Number of LED (u./m)	112
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	90
Included power supply	230 V. 15 W
Included cable	3 m

i

Detailed technical information about Schlüter-KERDI-BOARD-NLT/-NLT-BR can be found on pages 80/81.

Technical data of the included Bluetooth control

LT PEBR 4	
Receiver/remote control transmission standard	Bluetooth/radio
Max. range	10 m
Input voltage	24 V, DC
Max. total load in the LIPROTEC system	90 W
Max. length LED strips	6 m
Degree of protection	IP 63
Ambient temperature	–20 °C to +50 °C

i

Schlüter-SHELF-N offers precisely fitting shelves for the niche sets A, B and C. Please refer to our Schlüter®-PROFILES and SYSTEMS price list for design variants and material qualities.

Note:
Our Schlüter-LIPROTEC-ERP radio rotary control is available as an optional accessory in the CONTROL section on page 73.

Schlüter®-LIPROTEC-LLPM

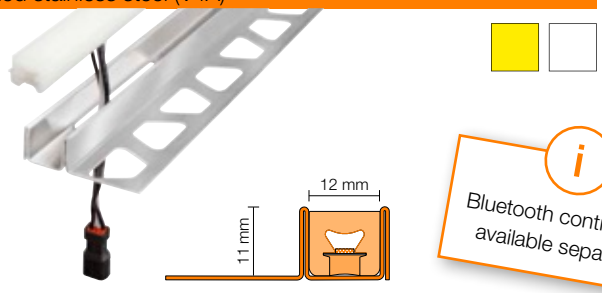
IP67

Schlüter-LIPROTEC-LLPM are plug-and-play LED modules consisting of a fully encased LED strip with homogenous light dispersion and a carrier profile made of aluminium or brushed stainless steel V4A with trapezoid perforated anchoring leg. The LED modules are available either with a fixed white-light colour temperature of 3000 K or 4900 K, or with a RGB+W colour range. The latter makes it possible to choose from more than 16 million hues and colour temperatures from 2500 K to 6500 K. The white LED module is available with an installation height of 11 mm, which means it can be installed flush with the tile.
(Product data sheet 15.8)

LED module *WW / NW*

aluminium

brushed stainless steel (V4A)



LED module *RGB+W*

aluminium

brushed stainless steel (V4A)

i Bluetooth controls also available separately!

Note: End caps incl. sealing compound for shortening the LED strip are included in the set.
On the RGB+W version, the LED strip protrudes approx. 3 mm from the profile.
Only the LED module with white light is suitable for use on the floor in domestic applications.

Technical data of the included LED modules

LLPM 9 (RGB+W)	
Dimensions of LED (B x H)	17 x 14.5 mm
Rated output (W/m)	15
Number of LED (u./m)	112
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	90

Can be shortened every 62.5 mm

LLPM 1 (warm white)	
Dimensions of LED (B x H)	12 x 10.5 mm
Rated output (W/m)	5
Number of LED (u./m)	280
Colour temperature (Kelvin)	3000 K
CRI	92

Can be shortened every 25 mm

LLPM 2 (neutral white)	
Dimensions of LED (B x H)	12 x 10.5 mm
Rated output (W/m)	5
Number of LED (u./m)	280
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 25 mm

Max. length of aligned LED modules in the LIPROTEC-EASY System: RGB+W = 6 m, white = 18 m

End cap

Schlüter-LIPROTEC-LLPM/EK are end caps for proper termination of the LED plug-and-play sets. They can be used as left or right end. The holding bar is embedded into the tile adhesive.

Schlüter®-LIPROTEC-LLPM/EK

end cap, anodised aluminium

B (mm)	Art. No.	€ / U.	P (Unit)
12	EK/LLP 110 AE 12	**5.69**	50
15	EK/LLP 110 AE 15	**5.69**	50

Schlüter®-LIPROTEC-LLPM/EK

end cap, brushed stainless steel (V4A)

B (mm)	Art. No.	€ / U.	P (Unit)
12	EK/LLP 110 V4A 12	**5.69**	50
15	EK/LLP 110 V4A 15	**5.69**	50

Note: B = 12 mm (LED module, white) / B = 15 mm (LED module, RGB+W)

For explanations of the symbols, refer to page 107.

LED module | linear light with anchoring leg *aluminium*

Schlüter®-LIPROTEC-LLPM

LED module aluminium

Material	L (cm)	Type of light	Art. No.	€ / m	P (Unit)
aluminium	50	warm white	LLP 110 AE 1/50	**206.82**	10
		neutral white	LLP 110 AE 2/50	**206.82**	10
		RGB + white	LLP 110 AE 9/50	**232.67**	10
	100	warm white	LLP 110 AE 1/100	**180.96**	10
		neutral white	LLP 110 AE 2/100	**180.96**	10
		RGB + white	LLP 110 AE 9/100	**206.82**	10
	200	warm white	LLP 110 AE 1/200	**148.65**	10
		neutral white	LLP 110 AE 2/200	**148.65**	10
		RGB + white	LLP 110 AE 9/200	**174.50**	10
	250	warm white	LLP 110 AE 1	**135.73**	10
		neutral white	LLP 110 AE 2	**135.73**	10
		RGB + white	LLP 110 AE 9	**161.59**	10

Exact lengths: 50.5 cm, 100.2 cm, 200 cm and 250 cm

LED module | linear light with anchoring leg *brushed stainless steel (V4A)*

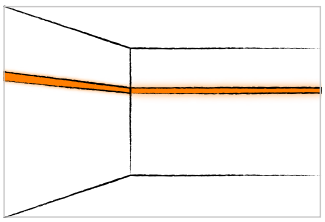
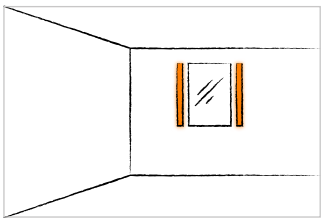
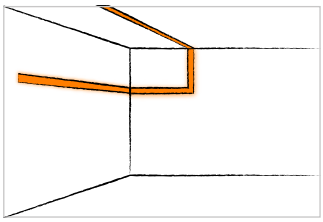
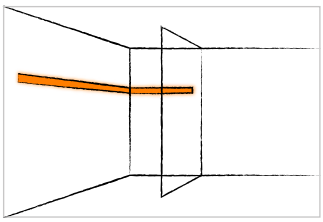
Schlüter®-LIPROTEC-LLPM

LED module brushed stainless steel (V4A)

Material	L (cm)	Type of light	Art. No.	€ / m	P (Unit)
stainless steel (V4A)	50	warm white	LLP 110 V4A 1/50	**232.49**	10
		neutral white	LLP 110 V4A 2/50	**232.49**	10
		RGB + white	LLP 110 V4A 9/50	**259.05**	10
	100	warm white	LLP 110 V4A 1/100	**205.91**	10
		neutral white	LLP 110 V4A 2/100	**205.91**	10
		RGB + white	LLP 110 V4A 9/100	**232.49**	10
	200	warm white	LLP 110 V4A 1/200	**172.71**	10
		neutral white	LLP 110 V4A 2/200	**172.71**	10
		RGB + white	LLP 110 V4A 9/200	**199.28**	10
	250	warm white	LLP 110 V4A 1	**159.43**	10
		neutral white	LLP 110 V4A 2	**159.43**	10
		RGB + white	LLP 110 V4A 9	**185.99**	10

Exact lengths: 50.5 cm, 100.2 cm, 200 cm and 250 cm

Application areas

Schlüter®-LIPROTEC-LLP

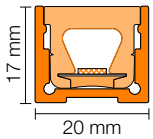
IP67

Schlüter-LIPROTEC-LLP are LED modules consisting of a fully encased LED strip with homogenous light dispersion and a U-shaped carrier profile made of aluminium. The LED modules can generate coloured RGB+W light strips with more than 16 million different hues and colour temperatures from 2500 K to 6500 K. The carrier profile with an installation height of 17 mm makes flush installation possible.
(Product data sheet 15.8)

LED module *RGB+W*

aluminium

Bluetooth controls also available separately!



Note: End caps incl. sealing compound for shortening the LED strip are included in the set.

Technical data of the included LED modules

LLP 9 (RGB+W)	
Dimensions of LED (B x H)	17 x 14.5 mm
Rated output (W/m)	15
Number of LED (u./m)	112
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	90

Can be shortened every 62.5 mm

Max. length of aligned LED modules in the LIPROTEC-EASY System: 6 m

End cap

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, indirect illumination

H (mm)	Art. No.	€ / U.	P (Unit)
17	EK / LT WS I AE 20	**16.74**	50

For explanations of the symbols, refer to page 107.

LED module | linear light *aluminium*

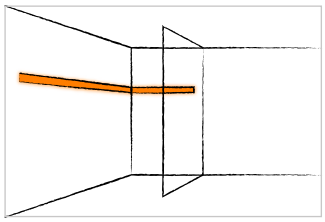
Schlüter®-LIPROTEC-LLP

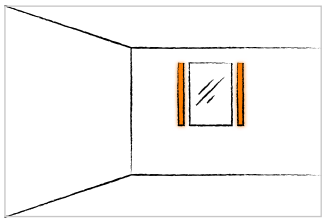
LED module aluminium

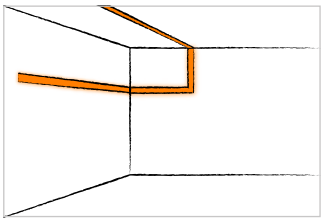
Material	L (cm)	Type of light	Art. No.	€ / m	P (Unit)
aluminium	50	RGB + white	LLP 2017 AE 9/50	**271.44**	10
	100	RGB + white	LLP 2017 AE 9/100	**232.67**	10
	200	RGB + white	LLP 2017 AE 9/200	**193.89**	10
	250	RGB + white	LLP 2017 AE 9	**180.96**	10

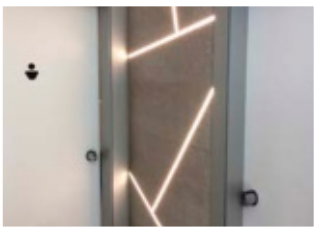
Exact lengths: 50.5 cm, 100.2 cm, 200 cm and 250 cm

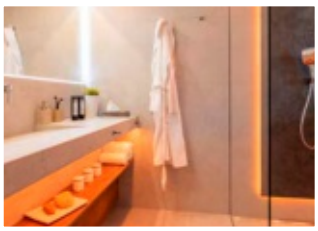
Application areas











Schlüter®-LIPROTEC-LLPE

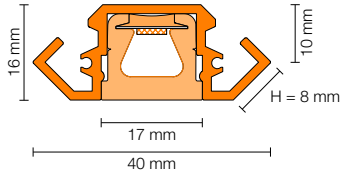
IP67

Schlüter-LIPROTEC-LLPE are LED modules consisting of a fully encased LED strip with homogenous light dispersion and a carrier profile made of anodised aluminium. The LED module with RGB+W coloured light range makes it possible to choose from more than 16 million different hues and colour temperatures from 2500 K to 6500 K. With the LED module, accent lighting can be created at wall corners. It is suitable for use in internal and external corners in the shower, preferably positioned vertically.
(Product data sheet 15.8)

LED module *RGB+W*

aluminium

Bluetooth controls also available separately!



Note: End caps incl. sealing compound for shortening the LED strip are included in the set.

Technical data of the included LED modules

LLPE 9 (RGB+W)	
Dimensions of LED (B x H)	17 x 14.5 mm
Rated output (W/m)	15
Number of LED (u./m)	112
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	90

Can be shortened every 62.5 mm

Max. length of aligned LED modules in the LIPROTEC-EASY System: 6 m

End cap

Schlüter®-LIPROTEC-LLE/EK

end cap, anodised aluminium

Art. No.	€ / U.	P (Unit)
EK / LT LLE / AE	**15.04**	50

For explanations of the symbols, refer to page 107.

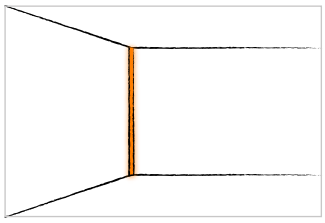
LED module | linear light | wall corner *aluminium*

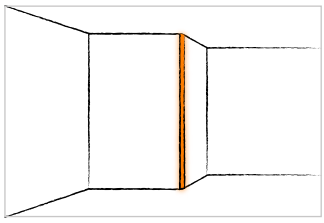
Schlüter®-LIPROTEC-LLPE

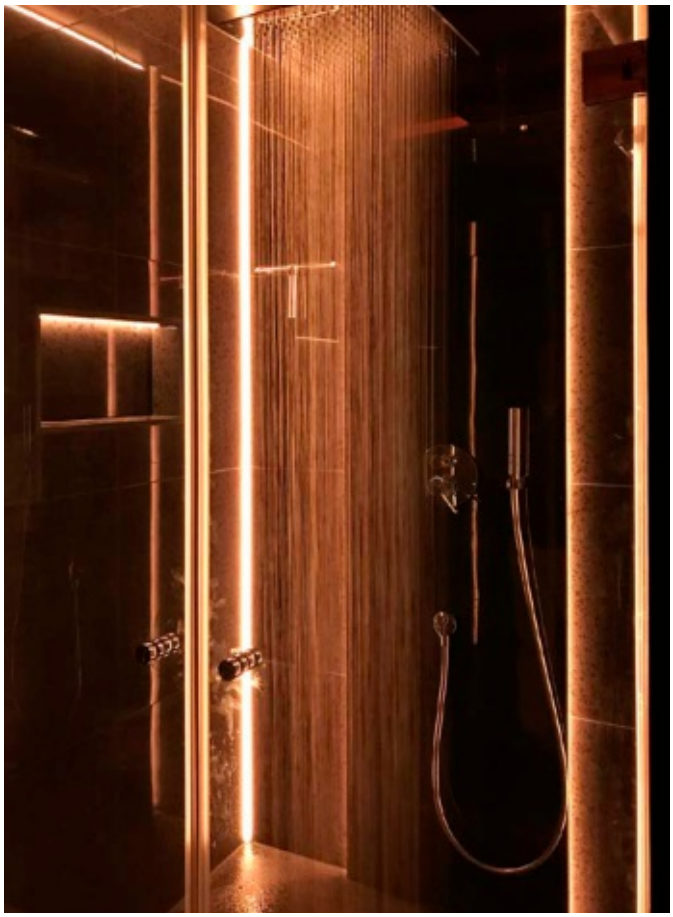
LED module aluminium

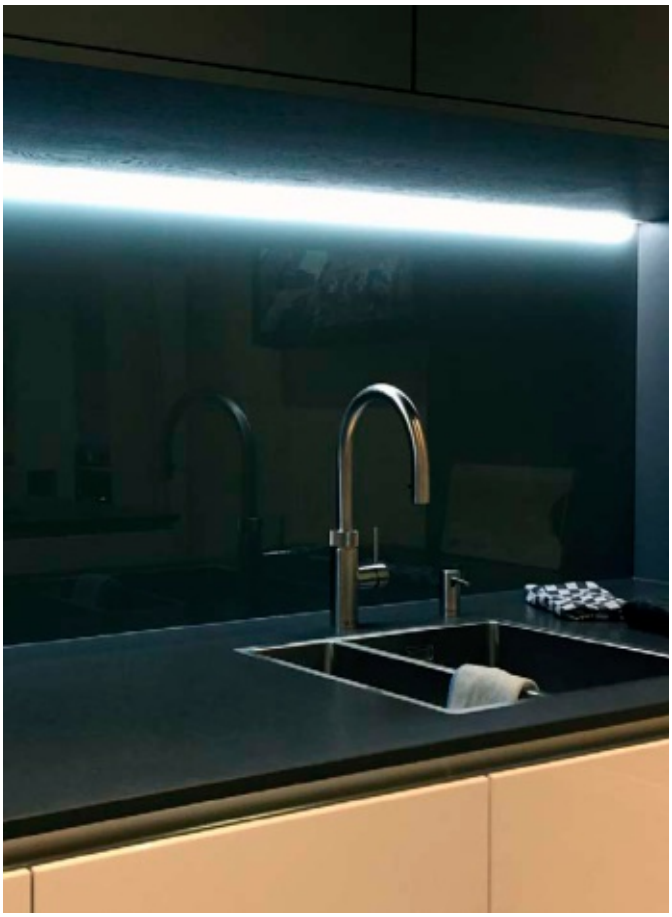
Material	L (cm)	Type of light	Art. No.	€ / m	P (Unit)
aluminium	250	RGB + white	LL EP 4016 AE 9	**187.43**	10

Application areas









Accessories

The plug-and-play design of the EASY series accessories makes it much easier to combine the components. You can see how to connect the individual elements and which system limitations exist in the PLAN section from page 98.

End cap LED strip

Schlüter®-LIPROTEC-PES

The scope of delivery of the LIPROTEC-EASY LED modules already includes end caps, which enable a watertight seal when the LED module is shortened. The end cap set, which is available separately, offers an additional option for closing off open LED ends of the LIPROTEC-EASY LED modules.

Schlüter®-LIPROTEC-PES

replacement end caps for LT-EASY LED strips

H (mm)	Art. No.	€ / Set	P (Set)
12	EK / LT PES 1	**5.43**	10
15	EK / LT PES 9	**6.07**	10

The set contains two end caps, incl. sealing adhesive.

Power supply

Schlüter®-LIPROTEC-PEKE

Power supply units convert the mains voltage to the 24 V required by the LED strips. They are easy to install and available in different wattages from 30 to 100 W. They are equipped with a connection cable with Euro plug, as well as plug-and-play connectors for the Schlüter-LIPROTEC-EASY system.

Schlüter®-LIPROTEC-PEKE

power supply, 24 V, DC,
with Euro plug and connector

Watt	Max. Watt*	Art. No.	€ / U.	P (Unit)
30	27	LT PEKE 24V 30W	**87.91**	10
50	45	LT PEKE 24V 50W	**108.57**	10
75	67.5	LT PEKE 24V 75W	**142.19**	10
100	90	LT PEKE 24V 100W	**199.06**	10

* A safety reserve has to be taken into account when selecting the power supply unit (see maximum load of the corresponding power supply unit).

Note:
The dimensions of the power supplies can be found on page 64.

Low-voltage cable

Schlüter®-LIPROTEC-PZK

Schlüter-LIPROTEC-PZK is a plug-and-play cable, available in varying lengths, for connecting the power supply unit or Bluetooth receiver and the plug-and-play LED module.

Schlüter®-LIPROTEC-PZK

low-voltage cable

L (cm)	Art. No.	€ / U.	P (Unit)
80	LT PZK / 80	**21.33**	10
150	LT PZK / 150	**23.09**	10
300	LT PZK 3M	**27.14**	10
500	LT PZK 5M	**32.32**	10

Note:
The max. combined cable lengths should not exceed 10 m.

Low-voltage distributor

Schlüter®-LIPROTEC-PZV

Schlüter-LIPROTEC-PZV is a plug-and-play distributor for connecting 2 or 4 additional plug-and-play LED modules to an installation.

Schlüter®-LIPROTEC-PZV

low-voltage distributor

Closing	Art. No.	€ / U.	P (Unit)
2	LT PZV 2	**26.50**	10
4	LT PZV 4	**40.07**	10

Low-voltage adapter

Schlüter®-LIPROTEC-PZA

Schlüter-LIPROTEC-PZA is an adapter cable for connecting the individual components of Schlüter-LIPROTEC-EASY (plug-and-play) and Schlüter-LIPROTEC-PRO. The adapter can also be used to integrate LED modules into a standard electrical installation. This connection must only be carried out by a qualified electrician. The clamping options illustrated schematically on page 99 must be observed.

Schlüter®-LIPROTEC-PZA

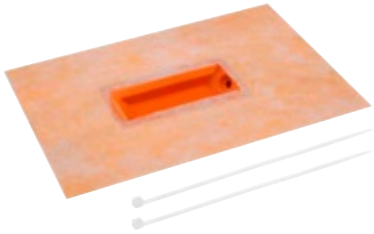
low-voltage adapter cable

L (cm)	Art. No.	€ / U.	P (Unit)
100	LT PZA / 100	**21.46**	10

Low-voltage hollow-wall box

Schlüter®-LIPROTEC-PZH

Schlüter-LIPROTEC-PZH is a hollow wall junction box with pre-adhered Schlüter-KERDI sealing collar for use in waterproofing assemblies with tile coverings (e.g. in shower areas). It creates a hollow space for plug connections to reversibly install the plug-and-play LED modules, and is attached with suitable adhesive or with Schlüter-KERDI-COLL.

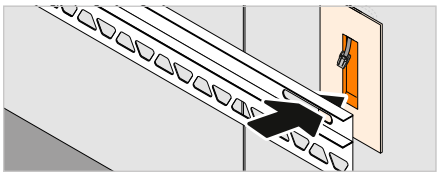


Note:
Strain relief is included in scope of supply.

Schlüter®-LIPROTEC-PZH

low-voltage hollow-wall box

B x H x T (mm)	Art. No.	€ / Set	P (Set)
260 x 165 x 20	LT PZ HD 35	**28.44**	10



Tool

Schlüter®-PROCUT-PSF

Schlüter-PROCUT-PSF is a special cutting tool for precisely cutting LED strips to size. To ensure that the LED strip retains IP-compliant tightness when it is shortened, it has to be cut at a 45° angle and sealed with the end caps and sealing adhesive included in the set.

Schlüter®-PROCUT-PSF

profile cutter for profiles with joint spacer

Art. No.	€ / U.	P (Unit)
PSF	**78.99**	10

PRO

With the plug-and-play sets from the EASY section, you can create a variety of individual light installations with ceramics and natural stone. But Schlüter-LIPROTEC offers a lot more. On the following pages, in the PRO section, you can combine profiles, LED strips, diffuser lenses, control equipment and accessories for individual projects.

On page 4 and 5, you can find an orientation aid for identifying which profile is suitable for which application.

PROFILES

		Page
LL – Linear light, coloured + white		22
LLE – Linear light, coloured + white | Corner		26
WS – Wall panel lighting, coloured + white		30
WSK – Wall panel lighting with cable duct, coloured + white	SET	34/58
WSQ – Wall panel lighting with QUADEC finishing profile, coloured + white		38
PB – Stair edge lighting, white	SET	42/60
DESIGNBASE-QD – Landing/border profile, white		46
VB – Cove lighting, white		50
D – Carrier profile for mirror, white	SET	54/62

ACCESSORIES

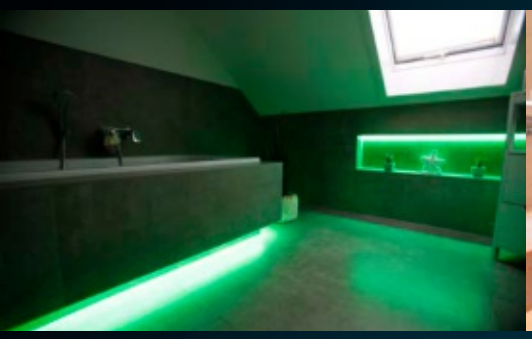
Power supply units	64
Installation material	64–66
Tool	66

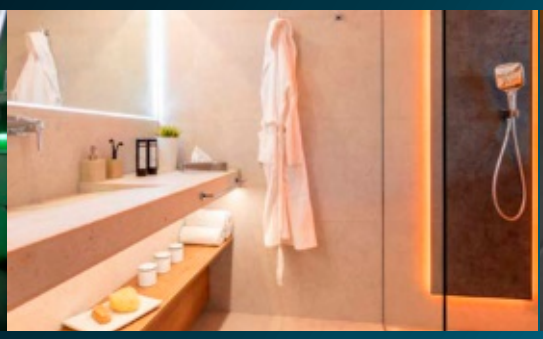
KEY

Explanations of properties / Areas of application	107

LED controls can be found in the CONTROL section from page 68.

For technical information and properties, refer to the PLAN section starting on page 78.





FIND OUT MORE AT:

LIPROTEC.CO.UK

Schlüter®-LIPROTEC-LL

You can create a wide variety of individual, linear accent lighting with Schlüter-LIPROTEC-LL. With its discreet, U-formed section, LIPROTEC-LL is suitable for many different installation situations in new buildings and with renovations.

For explanations of the symbols, refer to page 107.

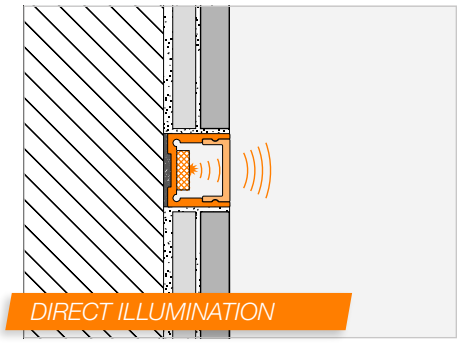
A real multi-talent!

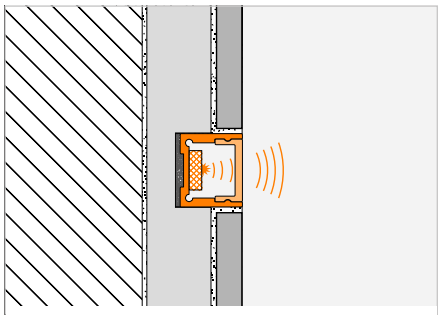
Schlüter-LIPROTEC-LL is a high quality, anodised aluminium carrier profile for creating accent lighting in wall coverings and ceilings. The illumination is provided by Schlüter-LIPROTEC-ES LED strips laid into the U-shaped profile, in combination with the corresponding diffuser lens. Various direct or indirect light effects are created according to the positioning of the profile.
(Product data sheet 15.5)

1. Schlüter-LIPROTEC-LL profile
2. LED strip
3. Diffuser lens (direct illumination)

Application areas:

- ✓ Linear light borders
- ✓ Illuminated borders in wall coverings
- ✓ Illuminated niche constructions



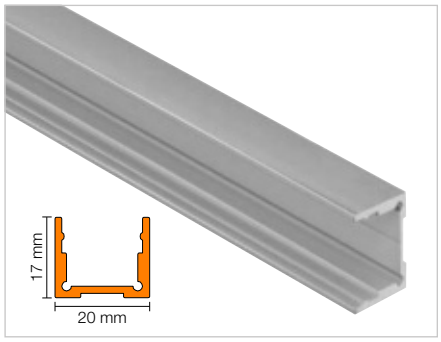


Light border on 19 mm Schlüter-KERDI-BOARD-K

Note: Only suitable for vertical installation in showers.
For horizontal installation, we recommend our LED module LIPROTEC-LLPM on page 12.

Schlüter®-LIPROTEC-LL

Profile | linear light



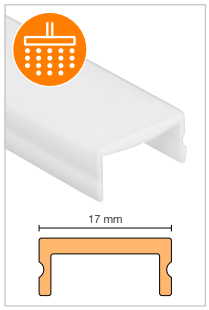
Schlüter®-LIPROTEC-LL

anodised aluminium

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT LL 2017 AE	**25.60**	60

For simplified installation, we recommend our Schlüter-KERDI-BOARD-K installation modules on page 66.

Diffuser lens



Schlüter®-LIPROTEC-WSI

diffuser lens, direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT WS I 20	**21.35**	60

End cap

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, indirect illumination

H (mm)	Art. No.	€ / U.	P (Unit)
17	EK / LT WS I AE 20	**16.74**	50

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

RGB+W CONTROLLABLE

LED strip

IP67

Schlüter®-LIPROTEC-ES

LED strips, RGB+W controllable, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 9/50	**125.22**	10
100	LT ES 9/100	**115.69**	10
150	LT ES 9/150	**115.69**	10
200	LT ES 9/200	**108.88**	10
250	LT ES 9	**108.88**	10
400	LT ES 9/400	**105.99**	10

Max. length in the LIPROTEC system: 12 m, connection length: 3 m

WARM WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 11/50	**89.20**	10
100	LT ES 11/100	**78.84**	10
150	LT ES 11/150	**74.33**	10
200	LT ES 11/200	**67.86**	10
250	LT ES 11	**64.63**	10
400	LT ES 11/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

NEUTRAL WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 21/50	**89.20**	10
100	LT ES 21/100	**78.84**	10
150	LT ES 21/150	**74.33**	10
200	LT ES 21/200	**67.86**	10
250	LT ES 21	**64.63**	10
400	LT ES 21/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

LT ES 9	
Dimensions (B x H)	15 x 5 mm
Rated output (W/m)	15
Number of LED (u./m)	192 (96 RGB + 96 W)
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	85

Can be shortened every 62.5 mm

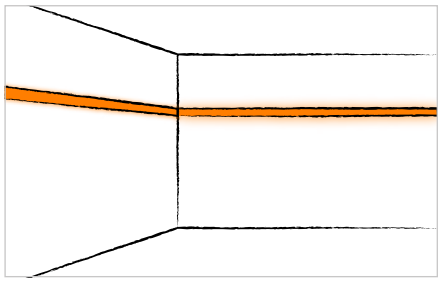
LT ES 1 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3400 K
CRI	92

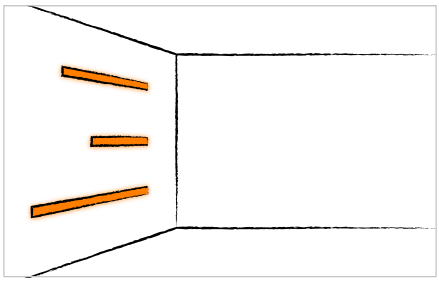
Can be shortened every 50 mm

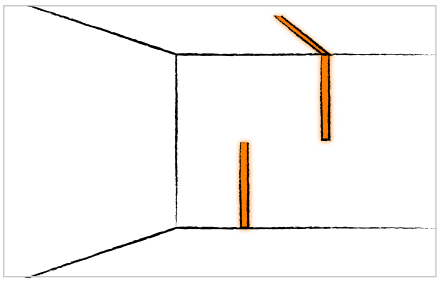
LT ES 2 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas







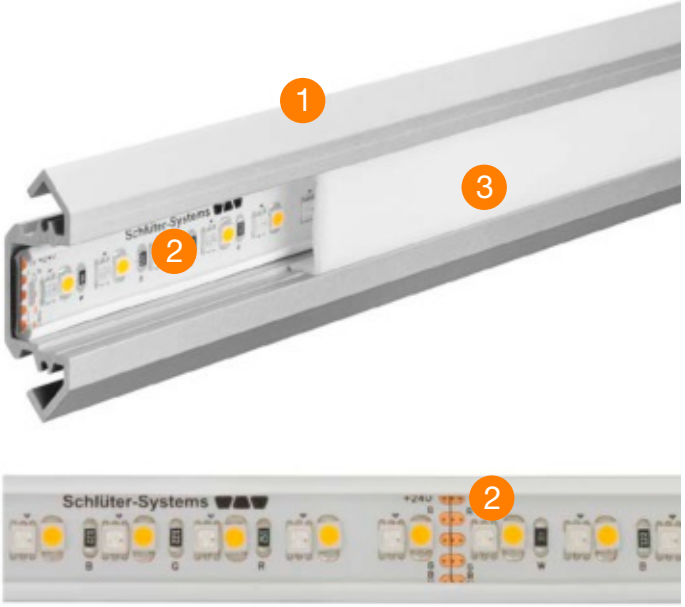
Schlüter®-LIPROTEC-LLE

Accent lighting for tile surfaces and much more: Schlüter-LIPROTEC-LLE is our first light profile that can not only be embedded in tiling, but also be used on any other suitable substrate, thanks to an intelligent clip system. LIPROTEC-LLE can be used both for internal and external corners details, as well as in shower areas (if mounted vertically) – a true multi-talent.

For explanations of the symbols, refer to page 107.

Re-imagine rooms

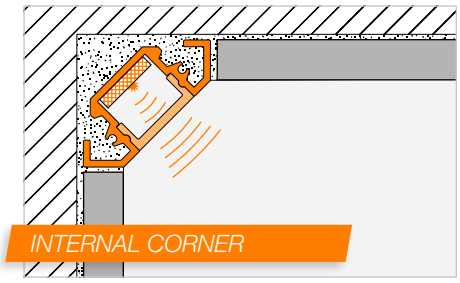
Schlüter-LIPROTEC-LLE is a high quality carrier profile made of anodised or white coated aluminium for mounting the Schlüter-LIPROTEC-ES LED strips. The profile is designed to create accent lighting in wall corners. It is suitable for use in internal and external corners in horizontal or vertical alignment. With the use of the respective pre-fabricated parts, it can also be installed continuously around corners. The profile can either be simply attached to any suitable substrate with a clip system or is embedded in the tile adhesive. For lighting, the selected LIPROTEC-ES LED strip is adhered within the profile and covered with the corresponding diffuser lens.
(Product data sheet 15.7)

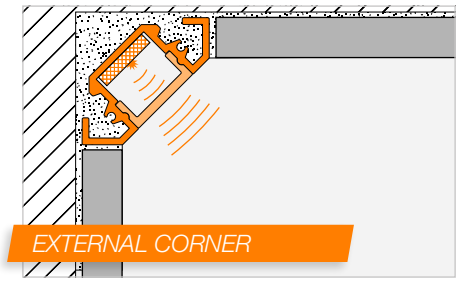


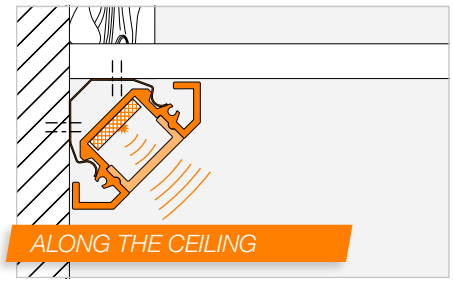
1. Schlüter-LIPROTEC-LLE profile
2. LED strip
3. Diffuser lens (direct illumination)

Application areas:

- ✓ Linear light, vertical in the shower
- ✓ Linear light along the ceiling
- ✓ Accent lighting on the corner



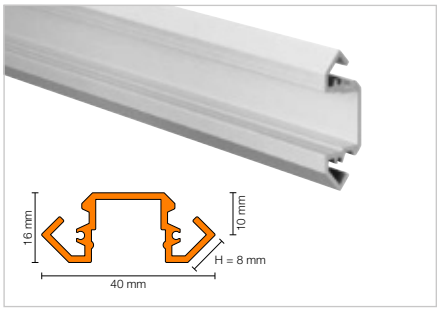




Note: Only suitable for vertical installation in showers.
For horizontal installation, we recommend our LED module LIPROTEC-LLPM on page 12.

Schlüter®-LIPROTEC-LLE

Profile | linear light | corner



Schlüter®-LIPROTEC-LLE

anodised aluminium

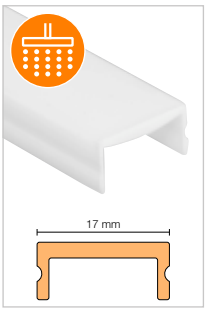
H (mm)	L = 2.50 m Art. No.	€ / m	KV (Unit)
8	LT LLE 4016 AE	**30.76**	60

Schlüter®-LIPROTEC-LLE-AC

colour coated aluminium, matte brilliant white

H (mm)	L = 2.50 m Art. No.	€ / m	KV (Unit)
8	LT LLE 4016 MBW	**32.71**	60

Diffuser lens | mounting aid



Schlüter®-LIPROTEC-WSI

diffuser lens, direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT WS I 20	**21.35**	60

Schlüter®-LIPROTEC-LLE/MK

installation clip

Art. No.	€ / Set	P (Set)
LT LLE MK	**5.16**	50

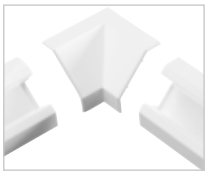
Note:
Installation clip incl. attachment material; recommended installation clip spacing: every 50 cm.

Corner | end cap

Schlüter®-LIPROTEC-LLE/E

90° external corner, ABS appearance

Art. No.	€ / U.	P (Unit)
E / LT LLE / AE	**6.73**	50



Schlüter®-LIPROTEC-LLE/I

90° internal corner, ABS appearance

Art. No.	€ / U.	P (Unit)
I / LT LLE / AE	**6.73**	50

Note:
The external and internal corners are designed for horizontal installation along the wall only. The profile may not be embedded in the tile covering.

Schlüter®-LIPROTEC-LLE-AC/E

90° external corner, ABS

Art. No.	€ / U.	P (Unit)
E / LT LLE / MBW	**6.73**	50

Schlüter®-LIPROTEC-LLE-AC/I

90° internal corner, ABS

Art. No.	€ / U.	P (Unit)
I / LT LLE / MBW	**6.73**	50

Schlüter®-LIPROTEC-LLE/EK

end cap, anodised aluminium

Art. No.	€ / U.	P (Unit)
EK / LT LLE / AE	**15.04**	50

Schlüter®-LIPROTEC-LLE-AC/EK

end cap, colour coated aluminium, matte brilliant white

Art. No.	€ / U.	P (Unit)
EK / LT LLE / MBW	**16.69**	50

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

RGB+W CONTROLLABLE

LED strip

IP67

Schlüter®-LIPROTEC-ES

LED strips, RGB+W controllable, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 9/50	**125.22**	10
100	LT ES 9/100	**115.69**	10
150	LT ES 9/150	**115.69**	10
200	LT ES 9/200	**108.88**	10
250	LT ES 9	**108.88**	10
400	LT ES 9/400	**105.99**	10

Max. length in the LIPROTEC system: 12 m, connection length: 3 m

WARM WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 11/50	**89.20**	10
100	LT ES 11/100	**78.84**	10
150	LT ES 11/150	**74.33**	10
200	LT ES 11/200	**67.86**	10
250	LT ES 11	**64.63**	10
400	LT ES 11/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

NEUTRAL WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 21/50	**89.20**	10
100	LT ES 21/100	**78.84**	10
150	LT ES 21/150	**74.33**	10
200	LT ES 21/200	**67.86**	10
250	LT ES 21	**64.63**	10
400	LT ES 21/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

LT ES 9	
Dimensions (B x H)	15 x 5 mm
Rated output (W/m)	15
Number of LED (u./m)	192 (96 RGB + 96 W)
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	85

Can be shortened every 62.5 mm

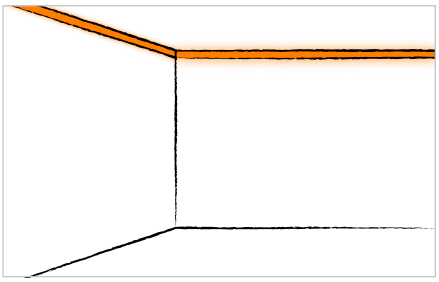
LT ES 1 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3400 K
CRI	92

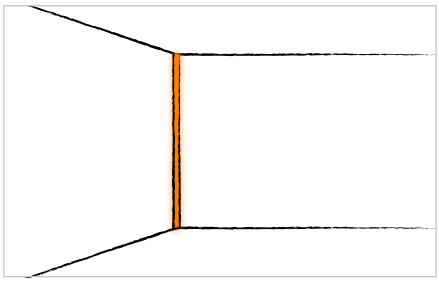
Can be shortened every 50 mm

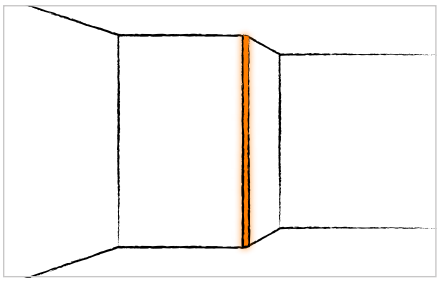
LT ES 2 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas







Schlüter®-LIPROTEC-WS

Providing accent lighting of components and wall panels with atmospheric LED light is the domain of the trusted Schlüter-LIPROTEC-WS profile. They can be combined with diffuser lenses for either indirect or direct light to create individual light experiences in combination with exquisite tiles or natural stone.

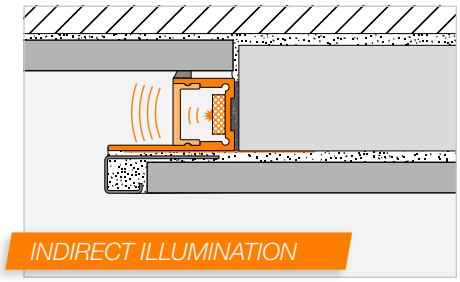
For explanations of the symbols, refer to page 107.

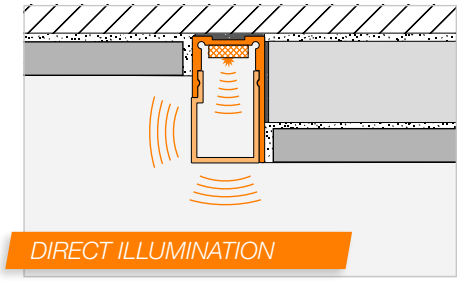
Building with light

Schlüter-LIPROTEC-WS is a high quality carrier profile of anodised aluminium for illuminating protruding wall panels with various Schlüter-LIPROTEC-ES LED strips integrated into the profile. Differing light effects are created in combination with two different diffuser lenses. The assembly can be used to create recessed direct or indirect lighting for on-wall structures. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 15.2)

Application areas:

- Elements
- Wall panels
- On-wall features
- Cove lighting
- Light strips



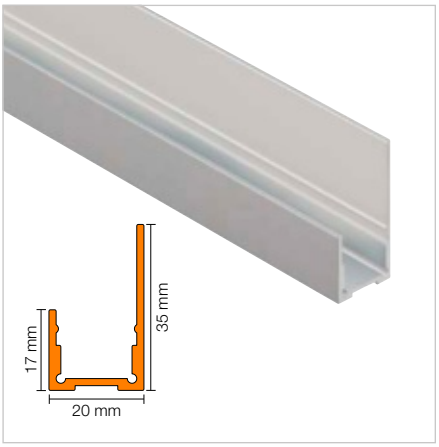


1. Schlüter-LIPROTEC-WS profile
2. LED strip
3. Diffuser lens (indirect illumination)
4. Diffuser lens (direct illumination)

Note: The diffuser lens for indirect lighting is only suitable for vertical installation in showers.
The diffuser lens for direct lighting is only suitable for installation outside of areas that are subjected to moisture.

Schlüter®-LIPROTEC-WS

Profile | wall panel



Schlüter®-LIPROTEC-WS

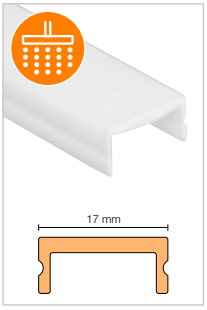
anodised aluminium

L (m)	Art. No.	€ / m	KV (Unit)
1	LT WS 20 AE/100	**27.40**	60
1.5	LT WS 20 AE/150	**27.40**	60
2.5	LT WS 20 AE	**27.40**	60

i

To achieve adhesive bonding between the smooth aluminium surface and the tile, the self-adhesive fleece Schlüter-DESIGNBASE-HVL 38/20M is fitted (see page 66).

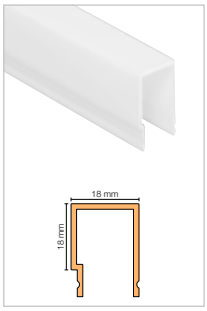
Diffuser lens



Schlüter®-LIPROTEC-WSI

diffuser lens, indirect illumination

L (m)	Art. No.	€ / m	KV (Unit)
1	LT WS I 20/100	**21.35**	60
1.5	LT WS I 20/150	**21.35**	60
2.5	LT WS I 20	**21.35**	60



Schlüter®-LIPROTEC-WSD

diffuser lens, direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
1	LT WS D 20/100	**24.71**	60
1.5	LT WS D 20/150	**24.71**	60
2.5	LT WS D 20	**24.71**	60

End cap

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, indirect illumination

H (mm)	Art. No.	€ / U.	P (Unit)
17	EK / LT WS I AE 20	**16.74**	50

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, direct illumination

H (mm)	Art. No.	€ / U.	P (Unit)
35	EK / LT WS D AE 20	**17.92**	50

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

RGB+W CONTROLLABLE

LED strip

IP67

Schlüter®-LIPROTEC-ES

LED strips, RGB+W controllable, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 9/50	**125.22**	10
100	LT ES 9/100	**115.69**	10
150	LT ES 9/150	**115.69**	10
200	LT ES 9/200	**108.88**	10
250	LT ES 9	**108.88**	10
400	LT ES 9/400	**105.99**	10

Max. length in the LIPROTEC system: 12 m, connection length: 3 m

WARM WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 11/50	**89.20**	10
100	LT ES 11/100	**78.84**	10
150	LT ES 11/150	**74.33**	10
200	LT ES 11/200	**67.86**	10
250	LT ES 11	**64.63**	10
400	LT ES 11/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

NEUTRAL WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 21/50	**89.20**	10
100	LT ES 21/100	**78.84**	10
150	LT ES 21/150	**74.33**	10
200	LT ES 21/200	**67.86**	10
250	LT ES 21	**64.63**	10
400	LT ES 21/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

LT ES 9	
Dimensions (B x H)	15 x 5 mm
Rated output (W/m)	15
Number of LED (u./m)	192 (96 RGB + 96 W)
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	85

Can be shortened every 62.5 mm

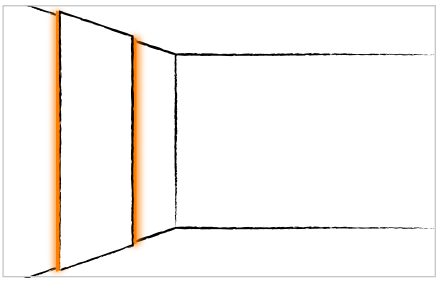
LT ES 1 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3400 K
CRI	92

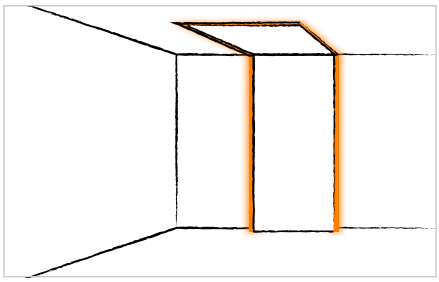
Can be shortened every 50 mm

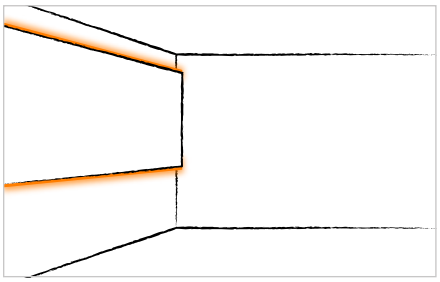
LT ES 2 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas







Schlüter®-LIPROTEC-WSK

Thought-through light design: An integrated cable duct, a support bracket for the tried-and-tested KERDI-BOARD (19 mm), diffuser lenses for direct and indirect illumination as desired – we have equipped the LIPROTEC-WSK products with features that make installation easier. And give the owner of the building an individual light experience that provides joy day after day.

For explanations of the symbols, refer to page 107.

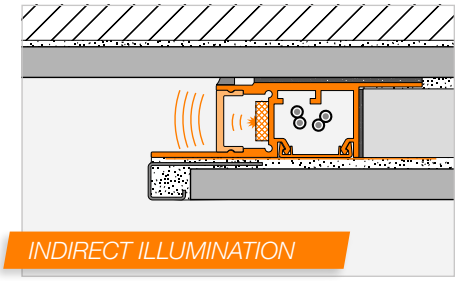
Accentuate!

Schlüter-LIPROTEC-WSK is a high quality, anodised aluminium carrier profile for illuminating protruding wall panels with various Schlüter-LIPROTEC-ES LED strips laid into the profile. Differing light effects are created in combination with two different diffuser lenses. Recessed, indirect or narrow illumination for wall protrusions are created in this way. An integrated cable duct with milling grooves for cable installation and a support bracket for Schlüter-KERDI-BOARD (19 mm) aid the installation process.
(Product data sheet 15.2)

Application areas:

- ✓ Elements
- ✓ Wall panels
- ✓ On-wall features
- ✓ Cove lighting
- ✓ Light strips

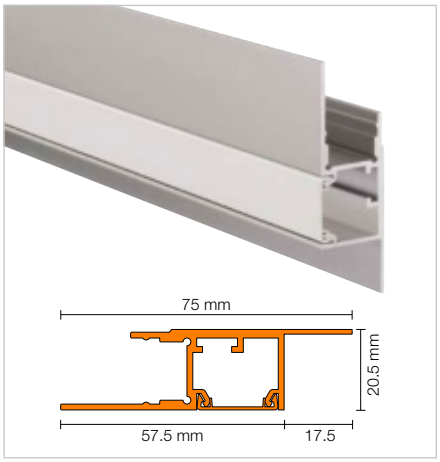
1. Schlüter-LIPROTEC-WSK profile
2. LED strip
3. Diffuser lens (indirect illumination)



Note: The diffuser lens for indirect lighting is only suitable for vertical installation in showers.
The diffuser lens for direct lighting is only suitable for installation outside of areas that are subjected to moisture.

Schlüter®-LIPROTEC-WSK

Profile | wall panel with cable duct



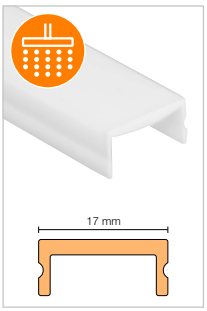
Schlüter®-LIPROTEC-WSK

anodised aluminium

L (m)	Art. No.	€ / m	KV (Unit)
2.5	WS 20 K1 AAE	**44.01**	60

To achieve adhesive bonding between the smooth aluminium surface and the tile, the self-adhesive fleece Schlüter-DESIGNBASE-HVL 38/20M is fitted (see page 66).

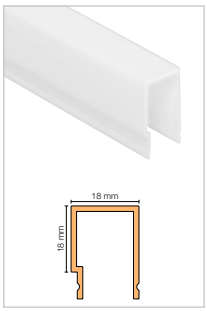
Diffuser lens



Schlüter®-LIPROTEC-WSI

diffuser lens, indirect illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT WS I 20	**21.35**	60



Schlüter®-LIPROTEC-WSD

diffuser lens, direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT WS D 20	**24.71**	60

End cap

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, indirect illumination

H (mm)	Art. No.	€ / U.	P (Unit)
17	EK / LT WS I AE 20	**16.74**	50

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, direct illumination

H (mm)	Art. No.	€ / U.	P (Unit)
35	EK / LT WS D AE 20	**17.92**	50

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

RGB+W CONTROLLABLE

LED strip

IP67

Schlüter®-LIPROTEC-ES

LED strips, RGB+W controllable, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 9/50	**125.22**	10
100	LT ES 9/100	**115.69**	10
150	LT ES 9/150	**115.69**	10
200	LT ES 9/200	**108.88**	10
250	LT ES 9	**108.88**	10
400	LT ES 9/400	**105.99**	10

Max. length in the LIPROTEC system: 12 m, connection length: 3 m

WARM WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 11/50	**89.20**	10
100	LT ES 11/100	**78.84**	10
150	LT ES 11/150	**74.33**	10
200	LT ES 11/200	**67.86**	10
250	LT ES 11	**64.63**	10
400	LT ES 11/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

NEUTRAL WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 21/50	**89.20**	10
100	LT ES 21/100	**78.84**	10
150	LT ES 21/150	**74.33**	10
200	LT ES 21/200	**67.86**	10
250	LT ES 21	**64.63**	10
400	LT ES 21/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

LT ES 9	
Dimensions (B x H)	15 x 5 mm
Rated output (W/m)	15
Number of LED (u./m)	192 (96 RGB + 96 W)
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	85

Can be shortened every 62.5 mm

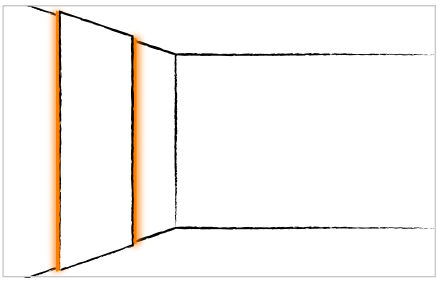
LT ES 1 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3400 K
CRI	92

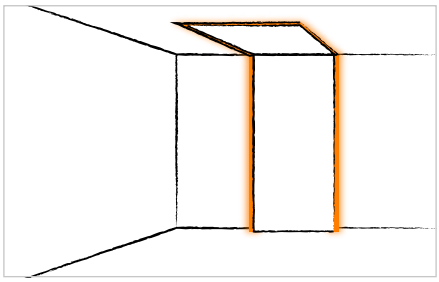
Can be shortened every 50 mm

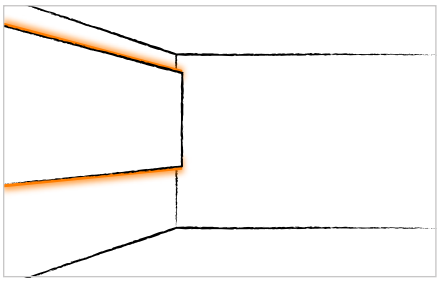
LT ES 2 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas







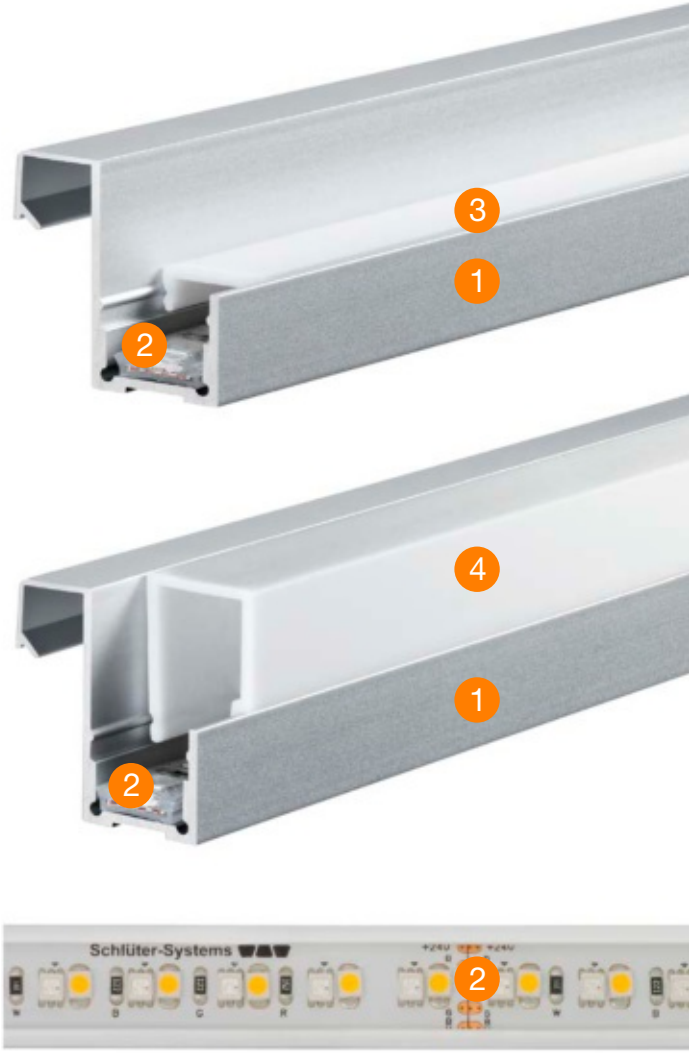
Schlüter®-LIPROTEC-WSQ

Accent lighting with integrated cover finish: Schlüter-LIPROTEC-WSQ combines atmospheric LED illumination for bathtubs, prewall installations and wall panels with an elegant cover finish in timeless QUADEC design. Different diffuser lenses for indirect or direct light make it possible to use the LIPROTEC-WSQ for individual light design.

For explanations of the symbols, refer to page 107.

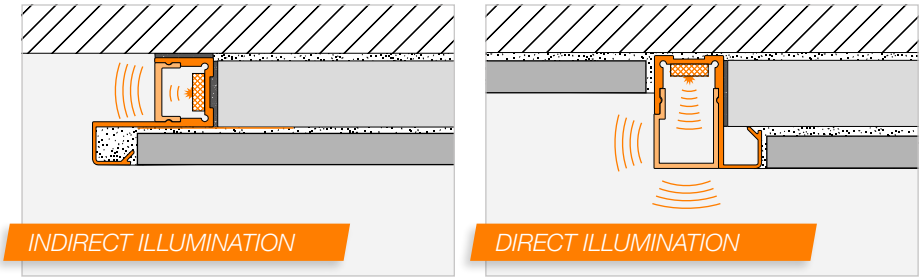
Building with light

Schlüter-LIPROTEC-WSQ is a high quality carrier profile of anodised aluminium for illuminating raised wall panels with various Schlüter-LIPROTEC-ES LED strips integrated into the profile. Differing light effects are created in combination with two different diffuser lenses. The assembly can be used to create recessed direct or indirect lighting for on-wall structures. LIPROTEC-WSQ features a formed cover finish with timelessly modern Schlüter-QUADEC design. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 15.2)



Application areas:

- ✓ Elements
- ✓ Wall panels
- ✓ On-wall features
- ✓ Cove lighting
- ✓ Light strips

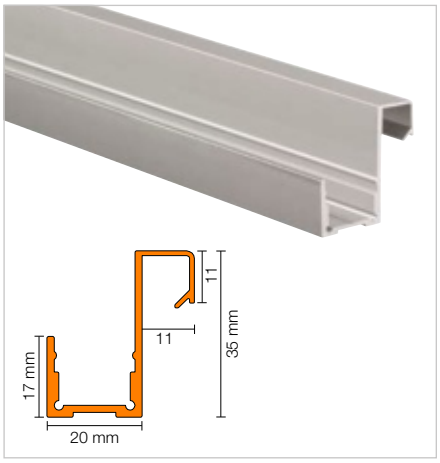


1. Schlüter-LIPROTEC-WSQ profile
2. LED strip
3. Diffuser lens (indirect illumination)
4. Diffuser lens (direct illumination)

Note: The diffuser lens for indirect lighting is only suitable for vertical installation in showers.
The diffuser lens for direct lighting is only suitable for installation outside of areas that are subjected to moisture.

Schlüter®-LIPROTEC-WSQ

Profile | wall panel with QUADEC finishing profile



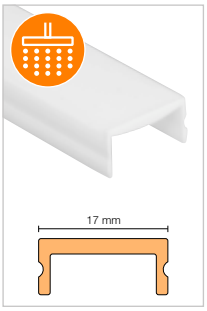
Schlüter®-LIPROTEC-WSQ

anodised aluminium, H = 11 mm

L (m)	Art. No.	€ / m	KV (Unit)
2.5	WS 20Q 110 AE	**37.38**	60

To achieve adhesive bonding between the smooth aluminium surface and the tile, the self-adhesive fleece Schlüter-DESIGNBASE-HVL 38/20M is fitted (see page 66).

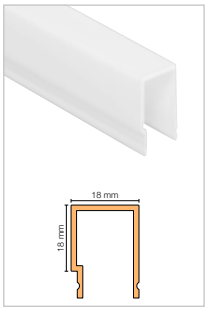
Diffuser lens



Schlüter®-LIPROTEC-WSI

diffuser lens, indirect illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT WS I 20	**21.35**	60



Schlüter®-LIPROTEC-WSD

diffuser lens, direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT WS D 20	**24.71**	60

End cap

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, indirect illumination

H (mm)	Art. No.	€ / U.	P (Unit)
17	EK / LT WS I AE 20	**16.74**	50

Schlüter®-LIPROTEC-WS/EK

end cap, anodised aluminium, direct illumination

H (mm)	Art. No.	€ / U.	P (Unit)
35	EK / LT WS D AE 20	**17.92**	50

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

RGB+W CONTROLLABLE

LED strip

IP67

Schlüter®-LIPROTEC-ES

LED strips, RGB+W controllable, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 9/50	**125.22**	10
100	LT ES 9/100	**115.69**	10
150	LT ES 9/150	**115.69**	10
200	LT ES 9/200	**108.88**	10
250	LT ES 9	**108.88**	10
400	LT ES 9/400	**105.99**	10

Max. length in the LIPROTEC system: 12 m, connection length: 3 m

WARM WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 11/50	**89.20**	10
100	LT ES 11/100	**78.84**	10
150	LT ES 11/150	**74.33**	10
200	LT ES 11/200	**67.86**	10
250	LT ES 11	**64.63**	10
400	LT ES 11/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

NEUTRAL WHITE

IP67

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 21/50	**89.20**	10
100	LT ES 21/100	**78.84**	10
150	LT ES 21/150	**74.33**	10
200	LT ES 21/200	**67.86**	10
250	LT ES 21	**64.63**	10
400	LT ES 21/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

LT ES 9	
Dimensions (B x H)	15 x 5 mm
Rated output (W/m)	15
Number of LED (u./m)	192 (96 RGB + 96 W)
Colour temperature (Kelvin)	RGB+W (2700 K)
CRI	85

Can be shortened every 62.5 mm

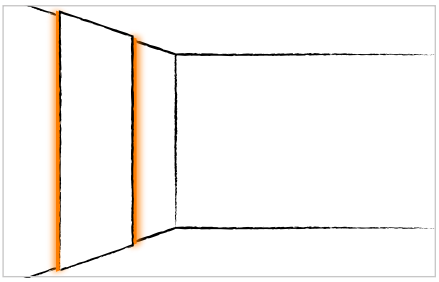
LT ES 1 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3400 K
CRI	92

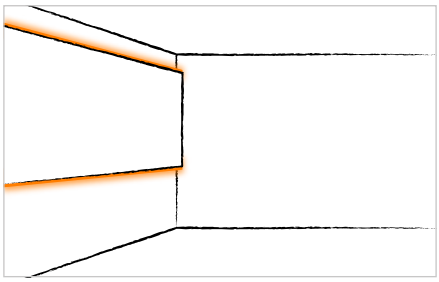
Can be shortened every 50 mm

LT ES 2 1	
Dimensions (B x H)	12 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas





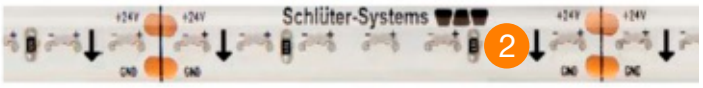
Schlüter®-LIPROTEC-PB

Schlüter-LIPROTEC-PB is our universal solution for illuminated step edges. From highlighting steps in a lobby to giving a reception desk a “floating” appearance, there are thousands of applications for the intelligent illumination technology of Schlüter-Systems. For step edges, combine LIPROTEC-PB with high-quality Schlüter-TREP profiles. For staircases, we recommend our sets on page 60.

For explanations of the symbols, refer to page 107.

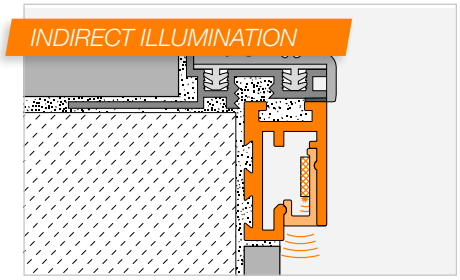
Step-by-step illumination

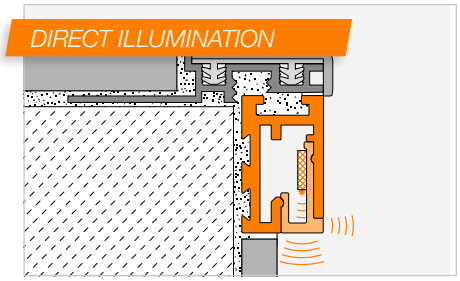
Schlüter-LIPROTEC-PB is a high quality edge profile of anodised aluminium with a visible area of 25 mm. It is designed for mounting Schlüter-LIPROTEC-ES LED strips and can be used with Schlüter-TREP stair nosing profiles to create appealing lighting along the edges of platforms. Differing light effects are created in combination with two different diffuser lenses. Edges can either be illuminated indirectly or directly by adding a 3 mm light strip. Another application area of LIPROTEC-PB is the direct or indirect illumination of work surface front edges. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 15.4)



Application areas:

✓ Platform step edges

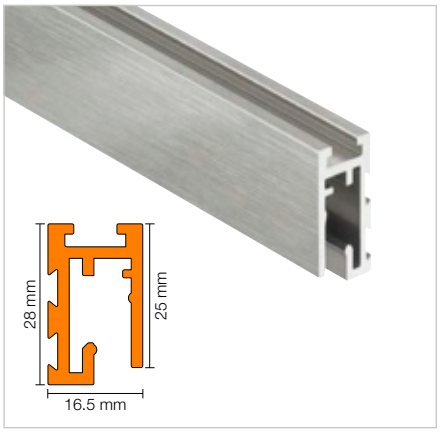




1. Schlüter-LIPROTEC-PB profile
2. LED strip
3. Diffuser lens (indirect illumination)
4. Diffuser lens (direct illumination)

Schlüter®-LIPROTEC-PB

Profile | stair edge



Schlüter®-LIPROTEC-PB

anodised aluminium

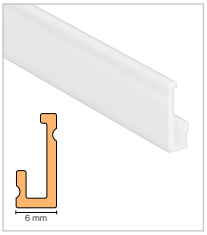
L (m)	Art. No.	€ / m	KV (Unit)
1	LT PB 25 AE/100	**31.31**	60
1.5	LT PB 25 AE/150	**31.31**	60
2.5	LT PB 25 AE	**31.31**	60

Schlüter®-LIPROTEC-PB-AEEB

brushed stainless steel appearance,
anodised aluminium

L (m)	Art. No.	€ / m	KV (Unit)
1	LT PB 25 AEEB/100	**36.88**	60
1.5	LT PB 25 AEEB/150	**36.88**	60
2.5	LT PB 25 AEEB	**36.88**	60

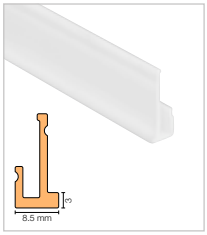
Diffuser lens



Schlüter®-LIPROTEC-VBI

diffuser lens, indirect illumination

L (m)	Art. No.	€ / m	KV (Unit)
1	LT VB I/100	**20.98**	60
1.5	LT VB I/150	**20.98**	60
2.5	LT VB I	**20.98**	60



Schlüter®-LIPROTEC-PBD

diffuser lens, indirect + direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
1	LT PB D/100	**21.14**	60
1.5	LT PB D/150	**21.14**	60
2.5	LT PB D	**21.14**	60

End cap

Schlüter®-LIPROTEC-PB/EK

end cap, anodised aluminium

Art. No.	€ / U.	P (Unit)
EK / LT PB AE	**5.34**	50

Schlüter®-LIPROTEC-PB-AEEB/EK

end cap,
brushed stainless steel effect anodised aluminium

Art. No.	€ / U.	P (Unit)
EK / LT PB AEEB	**6.27**	50

Note: Matching corner connectors can be found on page 56.

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

WARM WHITE

NEUTRAL WHITE

LED strip

IP65

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 51/50	**90.49**	10
100	LT ES 51/100	**80.13**	10
150	LT ES 51/150	**72.39**	10
200	LT ES 51/200	**68.51**	10
250	LT ES 51	**65.93**	10
400	LT ES 51/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

IP65

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 61/50	**90.49**	10
100	LT ES 61/100	**80.13**	10
150	LT ES 61/150	**72.39**	10
200	LT ES 61/200	**68.51**	10
250	LT ES 61	**65.93**	10
400	LT ES 61/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

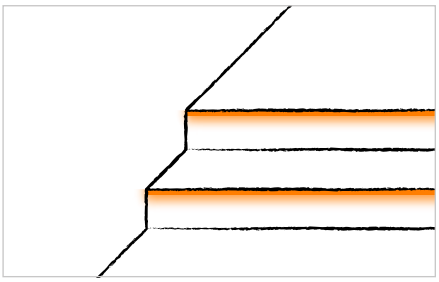
LT ES 5 1	
Dimensions (B x H)	8 x 2.5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3200 K
CRI	92

Can be shortened every 50 mm

LT ES 6 1	
Dimensions (B x H)	8 x 2.5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas



Schlüter®-DESIGNBASE-QD

QUADEC design meets modern LED technology: Schlüter-DESIGNBASE-QD makes it especially easy to create illuminated skirtings and borders. You can also add high-quality illuminated finishes in striking designs for worktops or wall structures made of stud frame constructions or KERDI-BOARD.

For explanations of the symbols, refer to page 107.

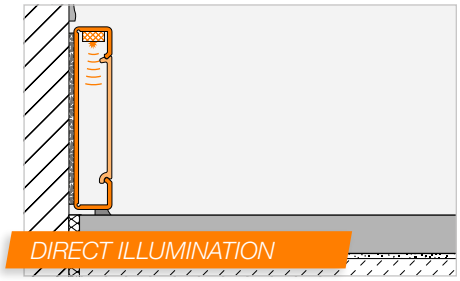
Defined by light

Schlüter-DESIGNBASE-QD is a high quality profile of anodised aluminium for versatile applications. It is designed for mounting various Schlüter-LIPROTEC-ES LED strips as a skirting or border profile in wall areas. A 39 mm diffuser lens is then used between the 10 mm wide (approx.) visible areas of the profile to create direct illumination. Other decorative materials such as tiles or wooden elements can also be inserted in the open space. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 16.1)

1 Schlüter-DESIGNBASE-QD profile
2 LED strip
3 Diffuser lens (direct illumination)

Application areas:

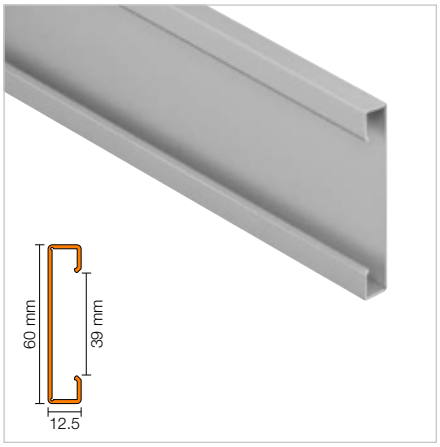
- ✓ Skirting
- ✓ Illuminated borders in wall coverings



Note: Only suitable for vertical installation in showers.
For horizontal installation, we recommend our LED module LIPROTEC-LLPM on page 12.

Schlüter®-DESIGNBASE-QD

Profile | base/border



Schlüter®-DESIGNBASE-QD

anodised aluminium

L (m)	Art. No.	€ / m	KV (Unit)
2.5	DB Q1 AE	**36.52**	60

Schlüter®-DESIGNBASE-QD-AEEB

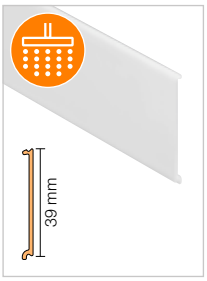
brushed stainless steel appearance,
anodised aluminium

L (m)	Art. No.	€ / m	KV (Unit)
2.5	DB Q1 AEEB	**44.14**	60

i

To achieve adhesive bonding between the smooth aluminium surface and the tile, the self-adhesive fleece Schlüter-DESIGNBASE-HVL 38/20M is fitted (see page 66).

Diffuser lens



Schlüter®-DESIGNBASE-QDD

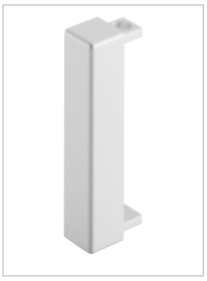
diffuser lens

H (mm)	L = 2.50 m Art. No.	€ / m	KV (Unit)
39	LT FSS 39	**22.04**	60

i

To prevent a disruption of the light effect, the Schlüter-LIPROTEC-RKB self-adhesive, reflective tape is placed over drill holes or cables (see page 66).

End cap



Schlüter®-DESIGNBASE-QD/E

external corner, anodised aluminium

Art. No.	€ / U.	P (Unit)
EV / DB Q1 AE	**32.23**	50

Schlüter®-DESIGNBASE-QD-AEEB/E

external corner,
brushed stainless steel effect anodised aluminium

Art. No.	€ / U.	P (Unit)
EV / DB Q1 AEEB	**38.87**	50

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

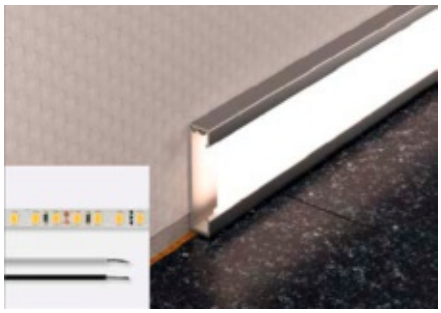
Profile packaging: bundle of 10

WARM WHITE

NEUTRAL WHITE

LED strip

IP67



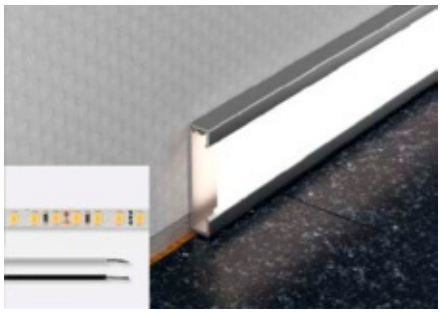
Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 31/50	**89.20**	10
100	LT ES 31/100	**78.84**	10
150	LT ES 31/150	**74.33**	10
200	LT ES 31/200	**67.86**	10
250	LT ES 31	**64.63**	10
400	LT ES 31/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

IP67



Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 41/50	**89.20**	10
100	LT ES 41/100	**78.84**	10
150	LT ES 41/150	**74.33**	10
200	LT ES 41/200	**67.86**	10
250	LT ES 41	**64.63**	10
400	LT ES 41/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

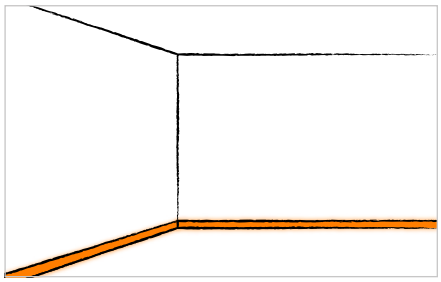
LT ES 3 1	
Dimensions (B x H)	7 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3400 K
CRI	92

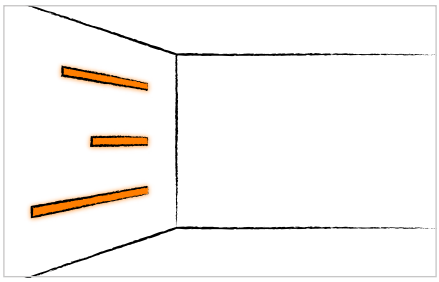
Can be shortened every 50 mm

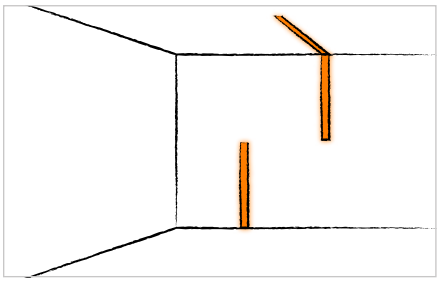
LT ES 4 1	
Dimensions (B x H)	7 x 5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas







Schlüter®-LIPROTEC-VB

Schlüter-LIPROTEC-VB not only is an elegant aluminium finishing profile for tiling – it also allows for integration of decorative accents in the tiling: for example by lighting the ceiling indirectly or as an illuminated guiding strip on the skirting tiles. Four different heights are available. Thanks to the installation height of just 3.5 mm, the Sideview-LED strips specifically designed for Schlüter-Systems are suitable for particularly detailed arrangements and lighting effects.

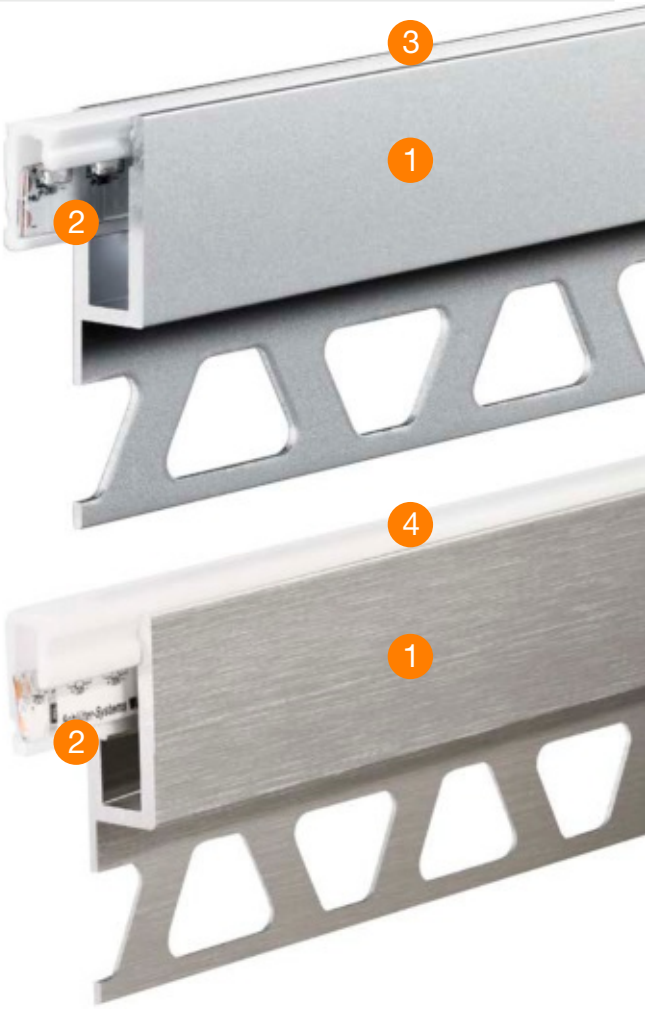
For explanations of the symbols, refer to page 107.

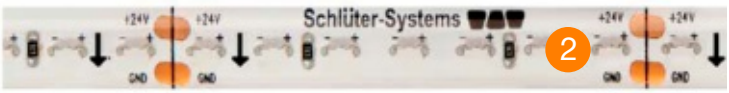
Light from within the tile!

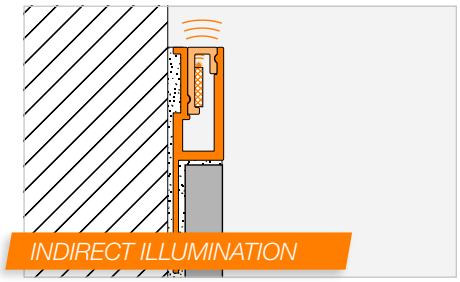
Schlüter-LIPROTEC-VB is a high quality tile finishing profile for wall areas, with a visible area of 25 mm. It is designed for mounting Schlüter-LIPROTEC-ES LED strips and can be used to create varying light effects in combination with two different diffuser lenses. Indirect light can either radiate from the profile edge to the ceiling via adjoining materials or along the skirting. Additionally, a 3 mm light strip can create direct light. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 15.1)

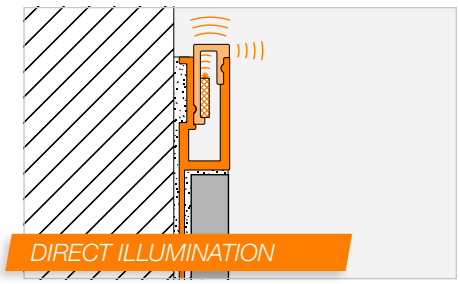
Application areas:

- ✓ Wall coverings
- ✓ Skirting









1. Schlüter-LIPROTEC-VB profile
2. LED strip
3. Diffuser lens (indirect illumination)
4. Diffuser lens (direct illumination)

Schlüter®-LIPROTEC-VB

Profile | cove lighting

Schlüter®-LIPROTEC-VB

anodised aluminium

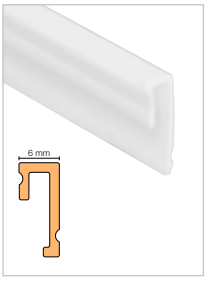
H (mm)	L = 2.50 m Art. No.	€ / m	KV (Unit)
8	LT VB 80 AE	**27.40**	60
10	LT VB 100 AE	**28.39**	60
11	LT VB 110 AE	**29.16**	60
12.5	LT VB 125 AE	**30.24**	60

Schlüter®-LIPROTEC-VB-AEEB

brushed stainless steel appearance, anodised aluminium

H (mm)	L = 2.50 m Art. No.	€ / m	KV (Unit)
8	LT VB 80 AEEB	**32.73**	60
10	LT VB 100 AEEB	**33.77**	60
11	LT VB 110 AEEB	**34.65**	60
12.5	LT VB 125 AEEB	**36.22**	60

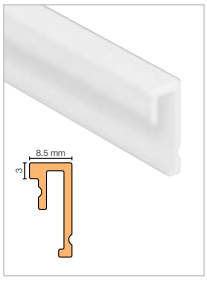
Diffuser lens



Schlüter®-LIPROTEC-VBI

diffuser lens, indirect illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT VB I	**20.98**	60



Schlüter®-LIPROTEC-VBD

diffuser lens, direct illumination

L (m)	Art. No.	€ / m	KV (Unit)
2.5	LT VB D	**20.98**	60

Note: The cable feed of the LED strip that radiates light sideways is always on one side only, at the right. The light shines upward.

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

WARM WHITE

NEUTRAL WHITE

LED strip

IP65

IP65

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 51/50	**90.49**	10
100	LT ES 51/100	**80.13**	10
150	LT ES 51/150	**72.39**	10
200	LT ES 51/200	**68.51**	10
250	LT ES 51	**65.93**	10
400	LT ES 51/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 61/50	**90.49**	10
100	LT ES 61/100	**80.13**	10
150	LT ES 61/150	**72.39**	10
200	LT ES 61/200	**68.51**	10
250	LT ES 61	**65.93**	10
400	LT ES 61/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

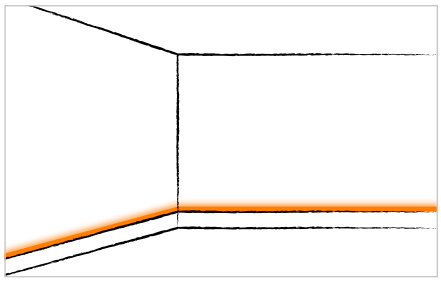
LT ES 5 1	
Dimensions (B x H)	8 x 2.5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3200 K
CRI	92

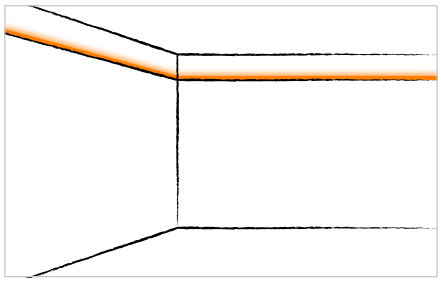
Can be shortened every 50 mm

LT ES 6 1	
Dimensions (B x H)	8 x 2.5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas





Schlüter®-LIPROTEC-D

Schlüter-LIPROTEC-D provides accent lighting for design elements on the wall. Whether you want to highlight decorative elements, borders, pictures or mirrors, create a simple shadow joint or set accents with indirect light – LIPROTEC-D offers individual and flexible solutions. For a really simple solution, we've put together a frame set for you with dimensions of 118.5 x 93.5 cm, with mitre cuts and with power supply unit, LED strips and mounting material. All you need is a suitable mirror or a decorative element.

For explanations of the symbols, refer to page 107.

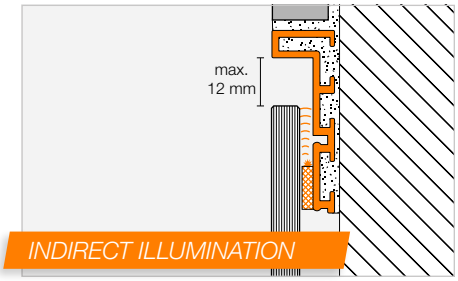
Properly framed!

Schlüter-LIPROTEC-D is a decorative carrier profile for wall areas of anodised aluminium with a visible area of 6 mm. It allows for the insertion of various decorative materials such as glass or mirrors to adjoin ceramic tile coverings. LIPROTEC-D can be used to mount Schlüter-LIPROTEC-ES LED strips for creating indirect light effects around a decorative element. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 15.3)

1 Schlüter-LIPROTEC-D profile
2 LED strip

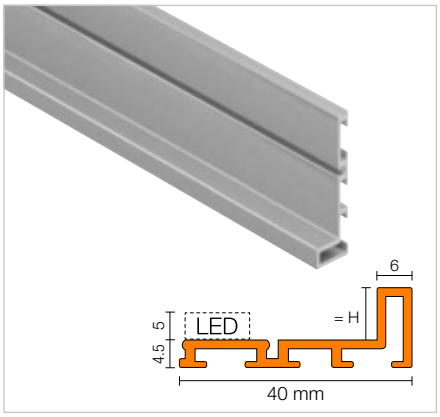
Application areas:

- ✓ Mirror
- ✓ Decorative elements made of various materials



Schlüter®-LIPROTEC-D

Profile | attachment profile for decorative materials



Schlüter®-LIPROTEC-D

anodised aluminium

H (mm)	L = 2.50 m Art. No.	€ / m	KV (Unit)
4.5	LT D 45 AE	**29.80**	60
7.5	LT D 75 AE	**30.12**	60
9	LT D 90 AE	**32.66**	60
16.5	LT D 165 AE	**33.66**	60

Selection of profile height:
5 mm must be added for the height of the LED strip LT ES 51 or LT ES 61.
The profile LT D 45 AE with an intake height of 4.5 mm is recommended for the insertion of non-illuminated decorative materials.

Corner connector

Schlüter®-LIPROTEC-D/V

corner connector set, 4 pc.

Art. No.	€ / Set	P (Set)
V 90 / LT 10/4	**14.42**	50

2 x corner connectors are required for each frame corner.

Control | accessories

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting and power supply units and installation material under “Accessories”.

Profile packaging: bundle of 10

WARM WHITE

NEUTRAL WHITE

LED strip

IP65

Schlüter®-LIPROTEC-ES

LED strips, warm white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 51/50	**90.49**	10
100	LT ES 51/100	**80.13**	10
150	LT ES 51/150	**72.39**	10
200	LT ES 51/200	**68.51**	10
250	LT ES 51	**65.93**	10
400	LT ES 51/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

IP65

Schlüter®-LIPROTEC-ES

LED strips, neutral white, 24 V, DC

L (cm)	Art. No.	€ / m	P (Unit)
50	LT ES 61/50	**90.49**	10
100	LT ES 61/100	**80.13**	10
150	LT ES 61/150	**72.39**	10
200	LT ES 61/200	**68.51**	10
250	LT ES 61	**65.93**	10
400	LT ES 61/400	**60.76**	10

Max. length in the LIPROTEC system: 24 m, connection length: 3 m

Technical specifications for LED strips

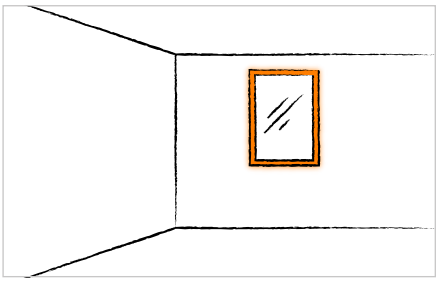
LT ES 5 1	
Dimensions (B x H)	8 x 2.5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	3200 K
CRI	92

Can be shortened every 50 mm

LT ES 6 1	
Dimensions (B x H)	8 x 2.5 mm
Rated output (W/m)	7.5
Number of LED (u./m)	140
Colour temperature (Kelvin)	4900 K
CRI	92

Can be shortened every 50 mm

Application areas



Wall panel sets (WSK)

The wall panel sets with RGB+W light make it easy to create a big impression. Simply select either the wide (128.5 cm) or narrow (70 cm) wall panel version and order the convenient profile set with it. Our RGB+W technology enables colour control with more than 16 million colour hues. It also includes a white-light range from 2500 K to 6500 K, which can be adjusted to standard ceiling lights. The controls can optionally be operated with a Bluetooth receiver. The matching Schlüter-Systems app can be downloaded for free from the Apple App Store (iOS) or Google Play (Android™).

Schlüter-LIPROTEC-WSK 700

Schlüter-LIPROTEC-WSK 1285

RGB+W CONTROLLABLE

Profile set

Schlüter®-LIPROTEC-WSK 2500

profile set for backlit wall panel

L (m)	Art. No.	€ / Set	P (Set)
2.5	WS 20 K1 S2 AE	**316.79**	10

Accessory set

Schlüter®-LIPROTEC-WSK 700

accessory set with LED strips, RGB+W

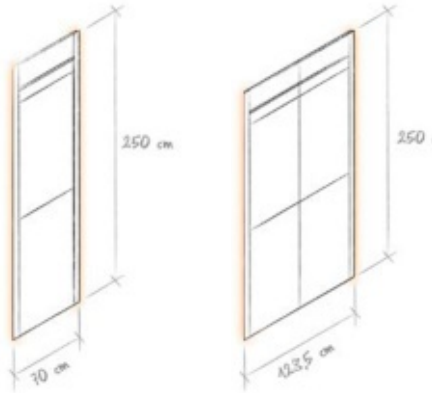
Art. No.	€ / Set	P (Set)
WS 20 ZS2 LT ES9	**970.20**	10

Schlüter®-LIPROTEC-WSK 1285

accessory set with LED strips, RGB+W

Art. No.	€ / Set	P (Set)
WS 20 ZS3 LT ES9	**1104.00**	10

Contents



WSK 2500

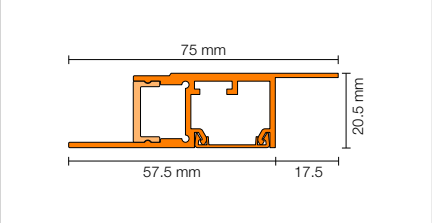
- 2 x Schlüter-LIPROTEC-WSK profiles, length: 250 cm, with cutout for cable routing and integrated covered cable duct, incl. Schlüter-LIPROTEC-WSI diffuser lens

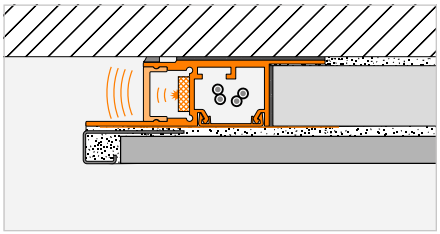
WSK 700

- 2 x Schlüter-LIPROTEC-ES LED strips, length: 250 cm, multi-colour + white light (RGB+W)
- 1 x set Schlüter-KERDI-BOARD, 19 mm, for end format: 250 cm x 70 cm, pre-assembled, with mounting slot for cable duct
- 1 x cable ducts with cover
- 1 x adhesive fleece Schlüter-DESIGNBASE-HVL, width: 7.5 cm, length: 800 cm
- 1 x Schlüter-KERDI-FIX, 290 ml grey
- 1 x power supply unit, 24 V, 100 W, input voltage 230 V, AC
- 1 x Schlüter-LIPROTEC-ZS 5A (connection set)
- 1 x empty strip, 200 cm, 20 mm diameter
- 1 x installation/mounting instruction

WSK 1285

- 2 x Schlüter-LIPROTEC-ES LED strips, length: 250 cm, multi-colour + white light (RGB+W)
- 1 x set Schlüter-KERDI-BOARD, 19 mm, for end format: 250 cm x 128.5 cm, pre-assembled, with mounting slot for cable duct
- 2 x cable ducts with cover
- 1 x adhesive fleece Schlüter-DESIGNBASE-HVL, width: 7.5 cm, length: 800 cm
- 1 x Schlüter-KERDI-FIX, 290 ml grey
- 1 x power supply unit, 24 V, 100 W, input voltage 230 V, AC
- 1 x Schlüter-LIPROTEC-ZS 5A (connection set)
- 1 x empty strip, 200 cm, 20 mm diameter
- 1 x installation/mounting instruction





In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting.

Staircase sets (PB)

SET

Schlüter-LIPROTEC-PB stair sets put light in the middle of stair steps. The PB 15 sets for 15 steps have 60 cm wide LED modules pre-mounted in the middle. With their diffuser lenses, they provide indirect illumination with a discreet line of light. The combinations of aluminium carrier profile and diffuser lens are 100/150 cm long and can be shortened individually as required. The LED modules have a 4500 K neutral white colour temperature and are cabled by means of a simple coupling system; a 500 cm connection cable and power supply are included in the set. If that isn't enough, the stair set can be expanded to 18 steps with only one supply line. With this in mind, use the Schlüter-LIPROTEC-PB-1 single-step sets.

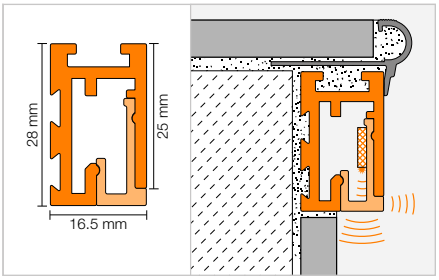
Schlüter-LIPROTEC-PB 15

Schlüter-LIPROTEC-PB 1

NEUTRAL WHITE

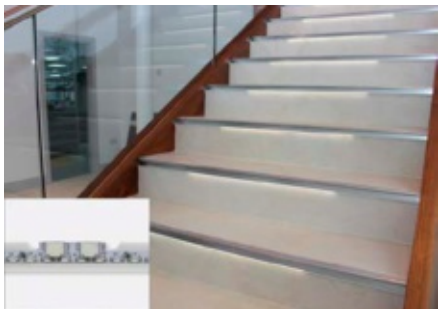
Advantages:

- ✓ Pre-assembled ready for installation
- ✓ Cabling and power supply unit in a complete set
- ✓ Easy installation of the sets in tile adhesive



Note: Use only with indoor applications! The set is designed for straight staircases. The appropriate stair profiles for the respective cover material has to be ordered separately.

Set



Schlüter®-LIPROTEC-PB 15

set for staircases, anodised aluminium

Art. No.	€ / Set	P (Set)
PB 15 S1 AE/100	**2428.08**	10
PB 15 S1 AE/150	**2639.22**	10

Schlüter®-LIPROTEC-PB 1

set for one step, anodised aluminium

Art. No.	€ / Set	P (Set)
PB S1 AE/100	**190.72**	10
PB S1 AE/150	**204.81**	10

Schlüter®-LIPROTEC-PB 15

set for staircases, brushed stainless steel effect anodised aluminium

Art. No.	€ / Set	P (Set)
PB 15 S1 AEEB/100	**2534.18**	10
PB 15 S1 AEEB/150	**2802.76**	10

Schlüter®-LIPROTEC-PB 1

set for one step, brushed stainless steel effect anodised aluminium

Art. No.	€ / Set	P (Set)
PB S1 AEEB/100	**199.71**	10
PB S1 AEEB/150	**214.84**	10

Contents

PB 15

- 15 x profiles Schlüter-LIPROTEC-PB, 100/150 cm each, incl. locking plate, cable feedthrough, 15 end caps
- 15 x Schlüter-LIPROTEC-PBD diffuser lenses, 100/150 cm each, incl. LED module, neutral white 4500 K, coupling system
- 14 x connection cables, 70 cm each, plug/plug system, 2 x 0.32 mm² (AW G22)
- 1 x supply cable 500 cm, single-sided plug system, 2 x 0.32 mm² (AW G22)
- 1 x power supply unit, 24 V, 75 W, input voltage 230 V, AC
- 1 x installation/mounting instruction

PB 1

- 1 x profile Schlüter-LIPROTEC-PB, 100/150 cm, incl. locking plate, cable feedthrough, end cap
- 1 x Schlüter-LIPROTEC-PBD diffuser lens, 100/150 cm, incl. LED module, neutral white 4500 K, coupling system
- 1 x connection cable 70 cm, plug/plug system, 2 x 0.32 mm² (AW G22)
- 1 x installation/mounting instruction

i

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting.

Supply cable

Schlüter®-LIPROTEC-ZZK

Schlüter-LIPROTEC-ZZK is a supply cable (2 x 0.32 mm², AWG 22) with a length of 500 cm for connecting the Schlüter-LIPROTEC-PB staircase systems to the voltage supply.

Schlüter®-LIPROTEC-ZZK

supply cable

Art. No.	€ / U.	P (Unit)
LT ZZK 2A 5M	**14.04**	10

Decorative frame sets (D)

SET

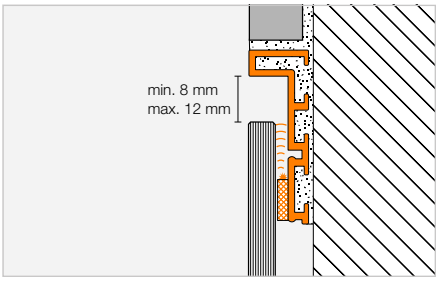
Schlüter-LIPROTEC-D 90 are sets for creating illuminated decorative frames. With these sets, mirrors or design elements such as printed glass or decor panels can be elegantly framed with indirect LED lighting. The support profiles are already mitre-cut. Four matching Schlüter-LIPROTEC-ES-LED strips with a colour temperature of 3200 K (warm white) or 4900 K (neutral white) are included in the set, as well as the power supply unit and all material for assembly and wiring.

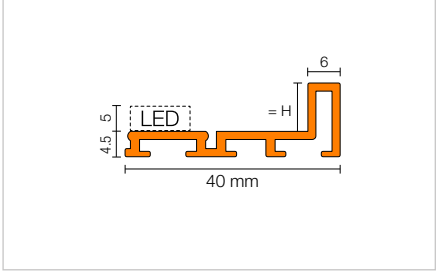
WARM WHITE | NEUTRAL WHITE

Advantages:

- ✓ Pre-assembled ready for installation
- ✓ Complete cabling in the set
- ✓ Set includes suitable power supply unit
- ✓ Easy installation of the sets in tile adhesive

Set





Note: For fastening the decorative element (e.g. mirror), the instructions in the manuals have to be followed.

Schlüter®-LIPROTEC-D 90 S1

frame set, warm white, 3200 K

H (mm)	Art. No.	€ / Set	P (Set)
9	LT D 90 S1 AE	**814.29**	10

Schlüter®-LIPROTEC-D 90 S2

frame set, neutral white, 4900 K

H (mm)	Art. No.	€ / Set	P (Set)
9	LT D 90 S2 AE	**814.29**	10

Contents

D 90 S1

- 1 x profile frame Schlüter-LIPROTEC-D 90, 118.5 cm x 93.5 cm, incl. mitre cuts and milled edges for decorative material support incl. Schlüter-LIPROTEC-D/V corner connector
- 2 x LED strips, Schlüter-LIPROTEC-ES, length: 110 cm, warm white 3200 K
- 2 x LED strips, Schlüter-LIPROTEC-ES, length: 85 cm, warm white 3200 K
- 1 x set of decorative material supports, above/below (4 units)
- 1 x set of mirror plates, above/below (4 units)
- 1 x Schlüter-LIPROTEC-ZS connection set
- 1 x empty strip, 200 cm, 20 mm diameter
- 1 x power supply unit, 24 V, 50 W, input voltage 230 V, AC
- 1 x installation/mounting instruction
- 1 x installation tool/mounting aid

D 90 S2

- 1 x profile frame Schlüter-LIPROTEC-D 90, 118.5 cm x 93.5 cm, incl. mitre cuts and milled edges for decorative material support incl. Schlüter-LIPROTEC-D/V corner connector
- 2 x LED strips, Schlüter-LIPROTEC-ES, length: 110 cm, neutral white 4900 K
- 2 x LED strips, Schlüter-LIPROTEC-ES, length: 85 cm, neutral white 4900 K
- 1 x set of decorative material supports, above/below (4 units)
- 1 x set of mirror plates, above/below (4 units)
- 1 x Schlüter-LIPROTEC-ZS connection set
- 1 x empty strip, 200 cm, 20 mm diameter
- 1 x power supply unit, 24 V, 50 W, input voltage 230 V, AC
- 1 x installation/mounting instruction
- 1 x installation tool/mounting aid

i

In the CONTROL section, you can find the right control system for perfectly completing your Schlüter-LIPROTEC lighting.

i

Decorative element dimensions (e.g. mirror): 115.3 cm x 90.3 cm (10 mm illuminated joint)
Decorative element weight: max. 16 kg

Accessories

The accessories in the LIPROTEC-PRO series can be brought together individually via Wago connectors. The cables can be shortened as required. The coloured sheathing of the cables simplifies installation. You can see how to connect the individual components and which system limitations exist in the PLAN section from page 98.

Power supply

Schlüter®-LIPROTEC-EKE

Schlüter-LIPROTEC-EKE power supply units convert the mains voltage to the 24 V required by the LED strips. They are easy to install and available in different wattages from 30 to 200 W. They are equipped with a connection cable with Euro plug for the Schlüter-LIPROTEC-PRO system.

Length of supply line: 1.8 m
Ambient temperature: –20 °C to +50 °C
Input voltage: 230 V, AC

Schlüter®-LIPROTEC-EKE

power supply unit 24 V, DC

Watt	Max. Watt*	Art. No.	€ / U.	P (Unit)
30	27	LT EKE 24V 30W	**72.39**	10
50	45	LT EKE 24V 50W	**94.36**	10
75	67.5	LT EKE 24V 75W	**126.68**	10
100	90	LT EKE 24V 100W	**184.84**	10
150	135	LT EKE 24V 150W	**209.40**	10
200	180	LT EKE 24V 200W	**243.01**	10

* A safety reserve has to be taken into account when selecting the power supply unit (see maximum load of the corresponding power supply unit).

	LT EKE 24V 30W	LT EKE 24V 50W	LT EKE 24V 75W	LT EKE 24V 100W	LT EKE 24V 150W	LT EKE 24V 200W
B x H x T (mm)	156 x 50 x 17	160 x 58 x 18	160 x 58 x 18	164 x 57 x 17	177 x 57 x 18	195 x 67 x 31

Low-voltage cable

Schlüter®-LIPROTEC-ZK

Schlüter-LIPROTEC-ZK are colour-coded low-voltage cables for connecting Schlüter-LIPROTEC LED strips to a suitable power supply unit and/or receiver.

2-core

5-core

Schlüter®-LIPROTEC-ZK

low-voltage cable 2 x 1.31 mm² (AWG 16)

L (m)	Art. No.	€ / U.	P (Unit)
25	LT ZK 2A 10 25M	**71.10**	10

Cable for LED strips LT ES 11 – LT ES 61 and for connecting power supply and receiver

Schlüter®-LIPROTEC-ZK

low-voltage cable 5 x 1.31 mm² (AWG 16)

L (m)	Art. No.	€ / U.	P (Unit)
25	LT ZK 5A 10 25M	**156.52**	10

Cable for LED strips LT ES 9

Low-voltage cable set | Wago connector

Schlüter®-LIPROTEC-ZS

Schlüter-LIPROTEC-ZS are connecting sets for connecting Schlüter-LIPROTEC installations to a suitable power supply unit and/or receiver.

2-core

Schlüter®-LIPROTEC-ZS

connection set, 2-core

Art. No.	€ / Set	P (Set)
LT ZS 2A	**45.39**	10

Connection set for LED strip LT ES 11 – LT ES 61, and for power supply unit and receiver connection

Contents

- 1 x cable 800 cm, 2 x 1.31 mm² (AWG 16)
- 1 x hollow wall junction box with lid
- 1 x concealed junction box with lid
- 2 x Wago connectors, 32 A, 5-core

5-core

Schlüter®-LIPROTEC-ZS

connection set, 5-core

Art. No.	€ / Set	P (Set)
LT ZS 5A	**72.12**	10

Connection set for LED strip LT ES 9

Contents

- 1 x cable 800 cm, 5 x 1.31 mm² (AWG 16)
- 1 x hollow wall junction box with lid
- 1 x concealed junction box with lid
- 5 x Wago connectors, 32 A, 3-core

Schlüter®-LIPROTEC-ZKL

Schlüter®-LIPROTEC-ZKL

Wago connectors

Cores	Package (Units)	Art. No.	€ / Package	P (Package)
3	50	LT ZKL 1 3A	**52.36**	10
5	25	LT ZKL 1 5A	**42.65**	10

Conduit | cable duct

Schlüter®-LIPROTEC-ZLR

Schlüter®-LIPROTEC-ZLR

conduit, 20 mm diameter

L (m)	Art. No.	€ / U.	P (Unit)
50	LT ZLR 20 50M	**106.71**	10

Schlüter®-LIPROTEC-ZKK

Schlüter®-LIPROTEC-ZKK

cable duct, white

L (m)	Art. No.	€ / U.	P (Unit)
2.5	LT ZKK 2010	**4.98**	10

Junction box

Schlüter®-LIPROTEC-Z

Schlüter®-LIPROTEC-Z

hollow wall junction box with lid, set = 5 units

H (mm)	Ø mm	Art. No.	€ / Set	P (Set)
47	68	LT Z 5HD 47	**19.93**	10

Schlüter®-LIPROTEC-Z

hollow wall junction box with lid, set = 5 units

H (mm)	Ø mm	Art. No.	€ / Set	P (Set)
47	68	LT Z 5HDD 47	**93.20**	10

Schlüter®-LIPROTEC-Z

concealed junction box with lid, set = 5 units

H (mm)	Ø mm	Art. No.	€ / Set	P (Set)
46	65	LT Z 5UD 46	**14.94**	10

Schlüter®-LIPROTEC-Z

concealed junction box with cover, set = 5 units

L x B x H (mm)	Art. No.	€ / Set	P (Set)
87 x 87 x 60	LT Z 5UK 60	**53.38**	10

Assembly module for cable duct

Schlüter®-KERDI-BOARD-K

Schlüter-KERDI-BOARD-K are installation modules with pre-milled grooves for accommodating Schlüter-LIPROTEC cable ducts. The groove is designed to also accommodate a 19 mm Schlüter-KERDI-BOARD or the Schlüter-LIPROTEC-LL carrier profile.
(Product data sheet 12.1)

Schlüter®-KERDI-BOARD-K

installation module with cable groove, 15 x 250 cm

H (mm)	Art. No.	€ / U.	PL (Unit)
19	KB 19 150 2500 K1	**23.54**	10
28	KB 28 150 2500 K1	**27.95**	10

Bonding fleece | reflector tape

Schlüter®-DESIGNBASE-HVL

Schlüter®-DESIGNBASE-HVL

self-adhesive bonding fleece

B (mm)	L = 20 m Art. No.	€ / U.	P (Unit)
38	HVL 38 / 20M	**36.52**	10
75	HVL 75 / 20M	**73.57**	10

Schlüter®-LIPROTEC-RKB

Schlüter®-LIPROTEC-RKB

self-adhesive reflector tape

B (mm)	L = 50 m Art. No.	€ / U.	P (Unit)
38	LT Z RKB 38 50M	**7.12**	10

Tool

Schlüter®-PROCUT-PSF

Schlüter-PROCUT-PSF is a special cutting tool for precisely cutting LED strips to size. To ensure that the LED strip retains IP-compliant tightness when it is shortened, it has to be cut at a 45° angle and sealed with the end caps and sealing adhesive included in the set.

Schlüter®-PROCUT-PSF

profile cutter for profiles with joint spacer

Art. No.	€ / U.	P (Unit)
PSF	**78.99**	10

CONTROL

Schlüter-LIPROTEC-CONTROL technology offers all the possibilities of modern lighting control with the LIPROTEC-CLASSIC and LIPROTEC-ZONES variants. The tried-and-tested CLASSIC system is a simple but convenient solution for controlling a LIPROTEC light source with a mobile device, a remote control or with a wireless rotary control. If you want to control several lighting areas with one control element, the new LIPROTEC-ZONES control system offers a wide range of options, including time dependent programming. Both systems work with the proven Bluetooth technology. CLASSIC or ZONES – the choice is yours, to suit your requirements for contemporary accent lighting.

		EASY Page	PRO Page
CLASSIC CONTROL			
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LIPROTEC-EBR | receiver	SET		73
LIPROTEC-ERP | rotary control		73	73
ZONES CONTROL			
LIPROTEC-PEBZS | starter-set receiver	SET	76	
LIPROTEC-EBZS | starter-set receiver	SET		76
LIPROTEC-PEBZR | receiver		77	
LIPROTEC-EBZR | receiver			77
LIPROTEC-ERPZ | rotary control		77	77
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For technical information and properties, refer to the PLAN section starting on page 96.

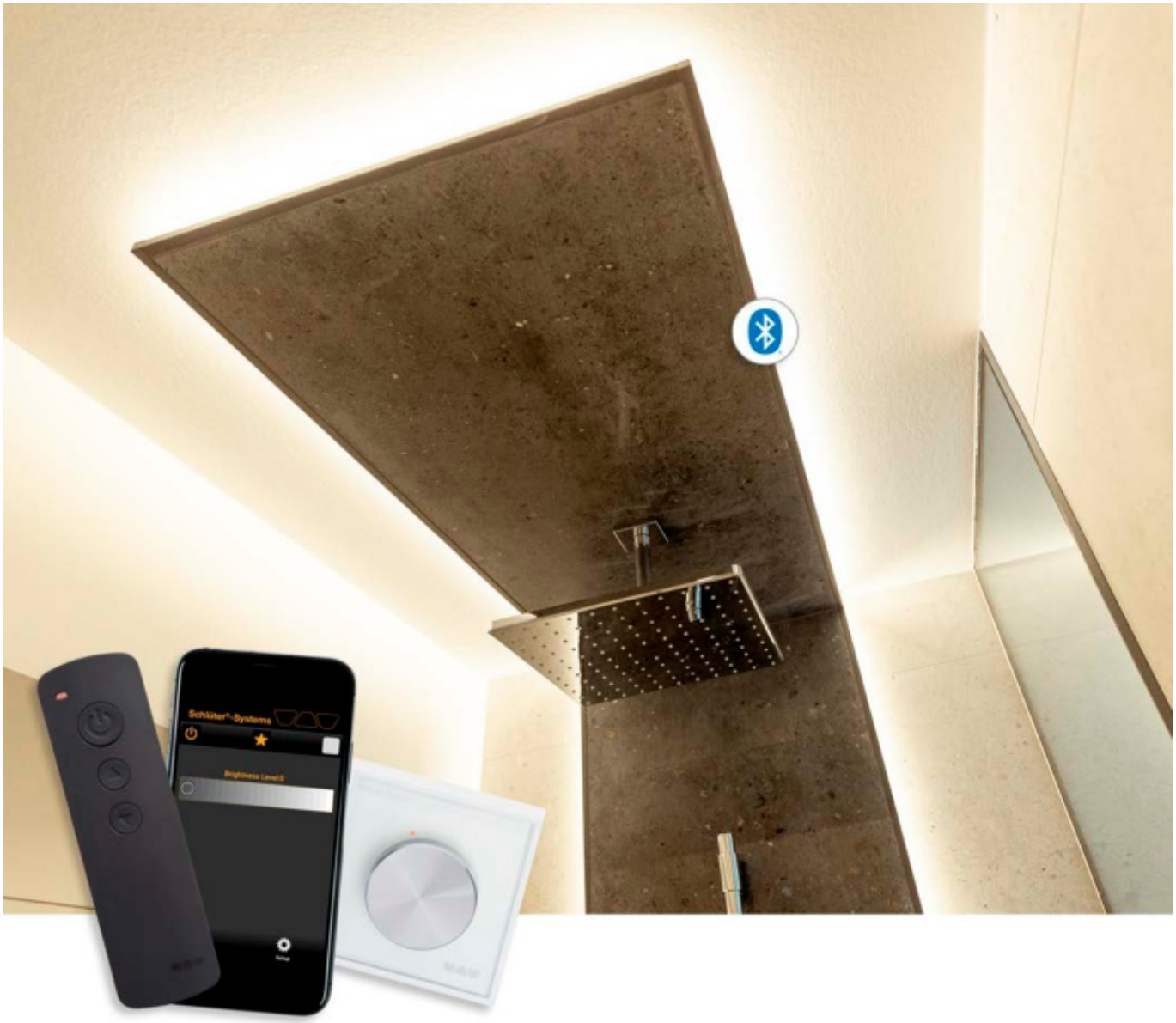
FIND OUT MORE AT:

LIPROTEC.CO.UK

Schlüter®-LIPROTEC-CLASSIC

The LIPROTEC-CLASSIC control system enables convenient control of uniform light sources throughout the room, either coloured or white. Optionally, the installation can take place in the PRO or EASY system, this is entirely at the discretion of the user. As a user, you have the choice of whether you want to control it via the remote control, the Schlüter-LED-Colour-Control app or optionally with the wireless rotary control. The control sets can be extended by additional receivers as required.

- For simple control of uniform light sources
- White LEDs or RGB+W can be controlled
- Control via app, remote control or rotary control
- Receiver and remote control in one set



Schlüter®-LIPROTEC-ZONES

The new Schlüter-LIPROTEC-ZONES control sets standards with innovative Bluetooth Mesh technology. Even more complex installations of LED systems from the Schlüter-LIPROTEC-EASY and -PRO series can be conveniently controlled with LIPROTEC-ZONES. The LED elements can be controlled individually or combined into zones that are addressed together. With the Bluetooth Mesh technology, various light sources can be independently operated, including across extended LED assemblies with LIPROTEC-ZONES. The practical starter sets can be extended by additional receivers as required. You can control the system either with the remote control included in the starter set, with an app installed in a mobile device or with a rotary control that is available as an accessory.

- Bluetooth Mesh technology
- Control light separately in zones
- White LEDs or RGB+W or combined can be controlled
- Control via app, remote control or rotary control
- Starter sets

Control via app

Convenient and intuitive: LIPROTEC-CLASSIC and LIPROTEC-ZONES each offer the option of control with an app for smartphones or tablets. Both apps are available for Android and iOS devices and can be downloaded and used free of charge.

schlueter-systems.com/app/

Download on the App Store

GET IT ON Google Play

CLASSIC control

SET

Schlüter®-LIPROTEC-PEBR
Schlüter®-LIPROTEC-EBR

Schlüter-LIPROTEC-PEBR/-EBR are Bluetooth receivers for controlling white or RGB+W LED strips using the included remote control or via Bluetooth on smartphones or tablets. The receiver is operated via Bluetooth by means of the Schlüter-LED-Colour-Control app, which is downloadable for free for both Android and iOS devices.
Up to two mobile devices can be simultaneously connected to the receiver. It is possible to store a preselection of lighting scenarios as favourites in the app. The very compact dimensions of the Bluetooth receiver enable space-saving installation.
The receivers are optionally available as EASY version in plug-and-play design or in the PRO version with open cable ends for connection with Wago connectors.

Control sets each contain:
- 1 x LIPROTEC-CLASSIC receiver
- 1 x LIPROTEC-CLASSIC remote control with wall mount
- Incl. Wago connectors (PRO only)

Schlüter®-LIPROTEC-PEBR I Schlüter®-LIPROTEC-EBR

control incl. receiver and remote control

Version	Type of light	Art. No.	€ / U.	P (Unit)
EASY	white	LT PEBR 1	**222.97**	10
EASY	RGB+W	LT PEBR 4	**226.21**	10
PRO	white	LT EBR 1	**197.34**	10
PRO	RGB+W	LT EBR 4	**204.13**	10

Technical specifications for CLASSIC control

	LT PEBR 1	LT PEBR 4	LT EBR 1	LT EBR 4
Use with LED modules	white	RGB+W	–	–
Use with LED strips	–	–	LT ES 11 – LT ES 61	LT ES 9
Max. total load in the LIPROTEC system	90 W	90 W	180 W	180 W
Max. length LED strips	18 m	6 m	24 m	12 m

Note:
For additional technical information and properties, refer to the PLAN section.

CLASSIC rotary control

Schlüter®-LIPROTEC-ERP

Schlüter-LIPROTEC-ERP is a wireless rotary control for operating Schlüter-LIPROTEC-PEBR/-EBR Bluetooth receivers. The rotary control units include on / off / dim functions and support the use of memorised favourite light settings with the app. The units can operate both white and coloured LED strips. The genuine glass carrier plate with brilliant white rear lacquering can be combined with many commercially available frame 55 series, using the supplied adapter. If you prefer the stand-alone variant, you can also individually attach the LIPROTEC rotary control in your preferred location with our standard frame.

Schlüter®-LIPROTEC-ERP

wireless rotary control
for Bluetooth receiver EBR / PEBR

Art. No.	€ / U.	P (Unit)
LT ERP BW	**110.06**	10

Note:
For additional technical information and properties, refer to the PLAN section.

Schlüter®-LIPROTEC-ZONES

Creating worlds of light at home

Schlüter-LIPROTEC-ZONES is a control tool for the LED systems Schlüter-LIPROTEC-EASY and -PRO. The starter sets can be used to individually control light sources and combine them into zones. With the Bluetooth Mesh Technology, various light sources can be operated. LIPROTEC-ZONES offers 3 individual and convenient control options for your light solutions:

- Remote control supplied as a starter set
- App in a mobile device
- Rotary control available as an accessory

Decide for yourself which option is most convenient for you. The app is available free of charge for both Android and iOS devices. The simple menu lets you arrange individual light colours and colour sequences. You can also save your favourite white and coloured hues in the app.

LIPROTEC-EASY makes plug-and-play especially convenient: The starter sets contain pre-assembled components. More experienced users can also use the LIPROTEC-ZONES control as a PRO variant.

Rotary control with a “twist”

Our rotary control units are truly “easy” and require no wiring connection. They can be combined with many standard frames from the 55 series. All rotary controls are shipped with a corresponding adapter module. If you prefer the stand-alone variant, you can also individually attach the LIPROTEC rotary control in your preferred location with our standard frame.

Schlüter®-LIPROTEC-ZONES

Lighting control
with Schlüter®-LIPROTEC-ZONES

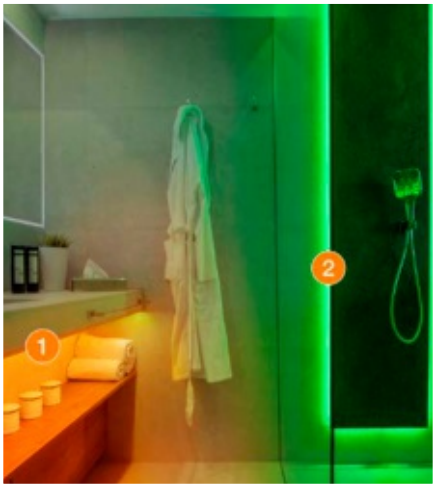
The various starter sets support the following lighting options:

Starter set
Light colour white

EASY: LT PEB ZS 1
PRO: LT EB ZS 1

Max. LED lengths in the starter set:
2 x 18 m (EASY) / 2 x 24 m (PRO)

Starter set
Light colour RGB+W



EASY: LT PEB ZS 4
PRO: LT EB ZS 4

Max. LED lengths in the starter set:
2 x 6 m (EASY) / 2 x 12 m (PRO)

Note:
The RGB+W technology can also generate specific white hues ranging from warm white to neutral white.

Starter set
Light colour white + RGB+W

EASY: LT PEB ZS 1/4
PRO: LT EB ZS 1/4

Max. LED lengths (white) in the starter set:
18 m (EASY) / 24 m (PRO)

Max. LED lengths (RGB+W) in the starter set:
6 m (EASY) / 12 m (PRO)

Starter set

Starter sets each contain:
2 x LIPROTEC-ZONES Bluetooth Mesh receivers
1 x LIPROTEC-ZONES remote control with wall mount

Rotary control

Available as an optional accessory

The rotary controls can be combined with many commercially available series 55 frames.

ZONES starter set

SET

Schlüter®-LIPROTEC-PEBZS
Schlüter®-LIPROTEC-EBZS

Schlüter-LIPROTEC-PEBZS/-EBZS are starter sets for conveniently controlling light sources in a LIPROTEC-ZONES system. The sets allow for individual control or combining lights into zones. With the Bluetooth Mesh technology, various light sources can be independently operated, including across extended LED assemblies. You can control the system either with the remote control included in the starter set, with an app installed in a mobile device or with a rotary control that is available as an accessory. The app is available free of charge for both Android and iOS devices. The simple menu lets you arrange individual light colours and colour sequences. You can also save your favourite white and coloured hues in the app. In addition, you can specify time controlled light settings with the app. For example, you can generate automatic light scenarios for a recurring daily sequence.

Schlüter®-LIPROTEC-PEBZS I Schlüter®-LIPROTEC-EBZS

ZONES starter set Bluetooth Mesh receiver incl. remote control and 2 receivers

Version	Type of light	Art. No.	€ / U.	P (Unit)
EASY	white	LT PEB ZS 1	**376.76**	10
EASY	RGB+W	LT PEB ZS 4	**388.41**	10
EASY	white + RGB+W	LT PEB ZS 1/4	**383.11**	10
PRO	white	LT EB ZS 1	**353.48**	10
PRO	RGB+W	LT EB ZS 4	**365.12**	10
PRO	white + RGB+W	LT EB ZS 1/4	**359.83**	10

Starter sets each contain:

- 2 x LIPROTEC-ZONES Bluetooth Mesh receivers
- 1 x LIPROTEC-ZONES remote control with wall mount
- Incl. Wago connectors (PRO only)

Technical specifications for ZONES starter sets

	LT PEB ZS 1	LT PEB ZS 4	LT PEB ZS 1/4	LT EB ZS 1	LT EB ZS 4	LT EB ZS 1/4
Max. total load in the LIPROTEC system	2 x 90 W	2 x 90 W	2 x 90 W	2 x 180 W	2 x 180 W	2 x 180 W
Max. length LED strips	2 x 18 m	2 x 6 m	white: 18 m. RGB+W: 6 m	2 x 24 m	2 x 12 m	white: 24 m. RGB+W: 12 m

Note:
For additional technical information and properties, refer to the PLAN section.

i

You can expand your installation with additional LIPROTEC-ZONES Bluetooth Mesh receivers.

ZONES receiver

Schlüter®-LIPROTEC-PEBZR
Schlüter®-LIPROTEC-EBZR

Schlüter-LIPROTEC-PEBZR/-EBZR are Bluetooth Mesh receivers for controlling multiple LIPROTEC LED strips via the ZONES remote control, suitable Bluetooth enabled mobile devices or with a ZONES rotary control. The receivers expand light installations with Schlüter-LIPROTEC-ZONES starter sets. The receivers are operated via Bluetooth by means of the Schlüter-LED-ZONES-CONTROL app, which is available free of charge for both Android and iOS devices. The compact dimensions of the receiver enable space-saving installation.

Schlüter®-LIPROTEC-PEBZR I Schlüter®-LIPROTEC-EBZR

ZONES Bluetooth Mesh receiver

Version	Type of light	Art. No.	€ / U.	P (Unit)
EASY	white	LT PEB ZR 1	**185.21**	10
EASY	RGB+W	LT PEB ZR 4	**191.56**	10
PRO	white	LT EB ZR 1	**173.56**	10
PRO	RGB+W	LT EB ZR 4	**179.91**	10

Note: Incl. Wago connectors (PRO only)

Technical specifications for ZONES receivers

	LT PEB ZR 1	LT PEB ZR 4	LT EB ZR 1	LT EB ZR 4
Max. total load in the LIPROTEC system	90 W	90 W	180 W	180 W
Max. length LED strips	18 m	6 m	24 m	12 m

Note:
For additional technical information and properties, refer to the PLAN section.

i
The Bluetooth Mesh receivers can be freely combined with the ZONES starter sets.

ZONES rotary control

Schlüter®-LIPROTEC-ERPZ

Schlüter-LIPROTEC-ERPZ are Bluetooth Mesh rotary controls for operating the LIPROTEC-ZONES illuminated profile technology. The control units include on / off / dim functions. The units can operate both white and coloured LED strips. When controlling RGB+W settings, the white light colour temperature can be seamlessly adjusted from warm white (2700 K) to cold white (6500 K). The genuine glass carrier plate with brilliant white rear lacquering can be combined with many commercially available standard frame series, using the supplied adapter. If you prefer the stand-alone variant, you can also individually attach the LIPROTEC rotary control in your preferred location with our standard frame.

Schlüter®-LIPROTEC-ERPZ

ZONES rotary control for Bluetooth Mesh applications

Art. No.	€ / U.	P (Unit)
LT ERPZ BW	**121.71**	10

Note:
For additional technical information and properties, refer to the PLAN section.

PLAN

Good planning is the prerequisite for a project's success. The PLAN section contains all the information needed to plan your LIPROTEC projects and ensure their success – from detailed dimensions of the profile to the photometric data of our LED light strips.

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LLPM – LED module, coloured + white | linear light with anchoring leg	82
LLPE – LED module, coloured | linear light | wall corner	82

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LED PROFILES

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LLE – Linear light, coloured + white | Corner	84
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WSQ – Wall panel lighting with QUADEC finishing profile, coloured + white	88
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D – Carrier profile for mirror, white	92/94

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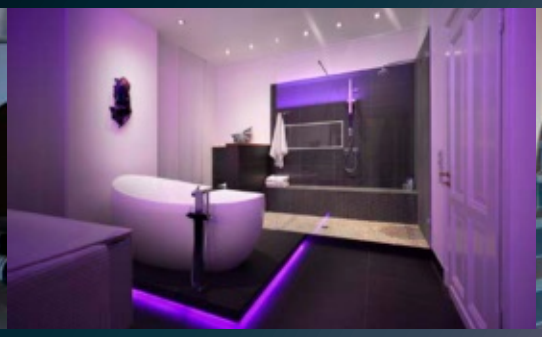
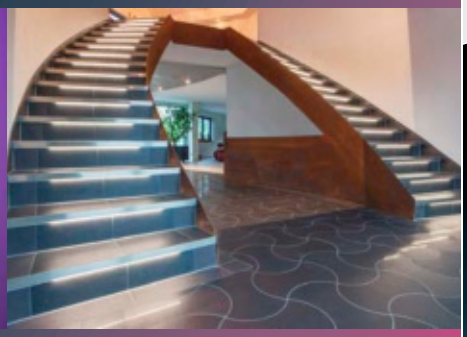
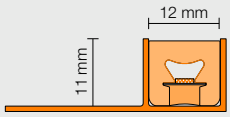
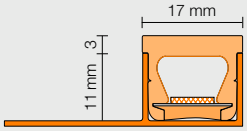




FIND OUT MORE AT:
LIPROTEC.CO.UK

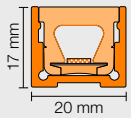
Schlüter®-KERDI-BOARD-NLT/-NLT-BR

Schlüter-KERDI-BOARD-NLT/-NLT-BR are prefabricated niche sets made of KERDI-BOARD with plug-and-play LIPROTEC-LED technology. They are used to create illuminated niches and storage surfaces for all kinds of wall areas. These niches can be integrated into the Schlüter-KERDI waterproofing system as a bonded waterproofing assembly. The niches are available in different dimensions and lighting options. The rectangular niches are available with illumination either on the long or the narrow side. The LED module can either be positioned at the front edge, in the centre or at the rear of the wall that is to be tiled. The niches are available both with or without Bluetooth control. We recommend using a standard light switch for convenience. *(Product data sheet 12.2)*

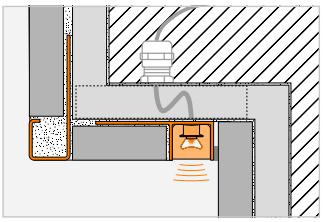
NICHES	APPLICATION AREA	PROPERTIES	DIMENSIONS			
B x H x T (mm)			VERSION	LED LENGTHS (mm)	LIGHT COLOUR	
305 x 305 x 89		SET	WARM WHITE/ NEUTRAL WHITE 	300	warm white	
305 x 508 x 89					neutral white	
305 x 711 x 89					RGB+W	
508 x 305 x 89		IP67	RGB+W 	505	warm white	
					neutral white	
					RGB+W	
711 x 305 x 89				705	warm white	
					neutral white	
					RGB+W	

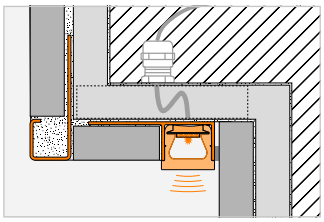
Schlüter®-LIPROTEC-LLP

Schlüter-LIPROTEC-LLP are LED modules consisting of a fully encased LED strip with homogenous light dispersion and a U-shaped carrier profile made of aluminium. The LED modules can generate coloured RGB+W light strips with more than 16 million different hues and colour temperatures from 2500 K to 6500 K. The carrier profile with an installation height of 17 mm makes flush installation possible.
(Product data sheet 15.8)

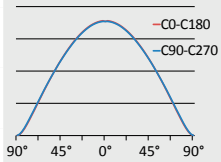
PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	DIMENSIONS OF LED MODULE		
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (cm)	
RGB+W				50	
				100	
				200	
		IP67		250	

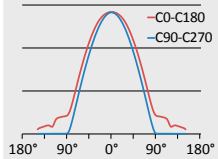
Exact lengths: 50.5 cm, 100.2 cm, 200 cm and 250 cm
Length of supply line: 12 cm with plug connector



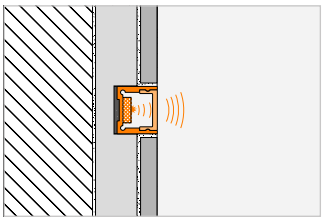


PHOTOMETRIC DATA								
RATED OUTPUT (W / Unit)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
1.60	280	92	3000	80	E	2	IP67	WARM WHITE/ NEUTRAL WHITE
1.60	280	92	4900	84	E	2		
4.40	112	90	2700	156	F	2		
2.60	280	92	3000	133	E	3		
2.60	280	92	4900	141	E	3		RGB+W
7.30	112	90	2700	262	F	3		
3.50	280	92	3000	187	E	4		
3.50	280	92	4900	197	E	4		
10.10	112	90	2700	364	F	3		

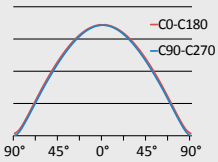




The specified light current refers to the entire light-emitting surface of the LED tube and may be reduced in the installed state, depending on the profile material and geometry.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.



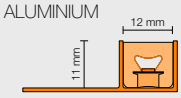
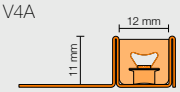
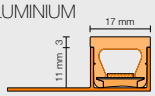
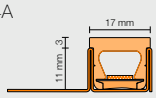
PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
15	112	90	2700	323	F	3	IP67	
				323	F	5		
				323	F	9		
				323	F	11		



Note: LED strips can be shortened every 62.5 mm.
Max. length of aligned LED modules in the LIPROTEC-EASY System: 6 m
The specified energy efficiency classes refer to the light-emitting surface of the LED strip. This surface is determined by the profile geometry.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.

Schlüter®-LIPROTEC-LLPM

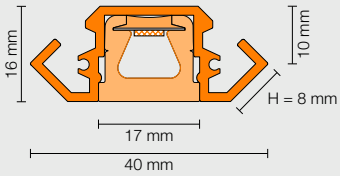
Schlüter-LIPROTEC-LLPM are plug-and-play LED modules consisting of a fully encased LED strip with homogenous light dispersion and a carrier profile made of aluminium or brushed stainless steel V4A with trapezoid perforated anchoring leg. The LED modules are available either with a fixed white-light colour temperature of 3000 K or 4900 K, or with a RGB+W colour range. The latter makes it possible to choose from more than 16 million hues and colour temperatures from 2500 K to 6500 K. The white LED module is available with an installation height of 11 mm, which means it can be installed flush with the tile. *(Product data sheet 15.8)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA		PROPERTIES	DIMENSIONS OF LED MODULE	
	ALUMINIUM	V4A		WIDTH / HEIGHT (mm)	LENGTH (cm)
WARM WHITE/ NEUTRAL WHITE				ALUMINIUM 	50
					100
				V4A 	200
					250
RGB+W			IP67	ALUMINIUM 	50
					100
				V4A 	200
					250

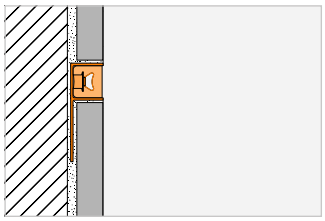
Exact lengths: 50.5 cm, 100.2 cm, 200 cm and 250 cm
Length of supply line: 12 cm with plug connector

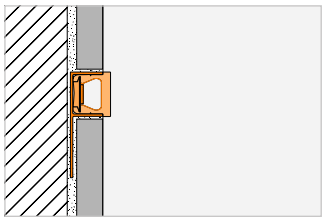
Schlüter®-LIPROTEC-LLPE

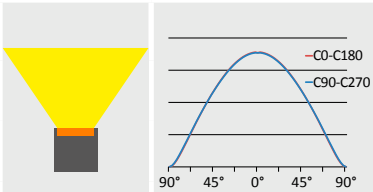
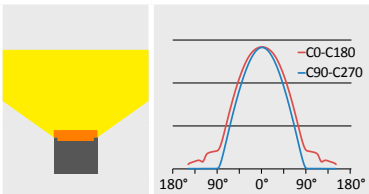
Schlüter-LIPROTEC-LLPE are LED modules consisting of a fully encased LED strip with homogenous light dispersion and a carrier profile made of anodised aluminium. The LED module with RGB+W coloured light range makes it possible to choose from more than 16 million different hues and colour temperatures from 2500 K to 6500 K. With the LED module, accent lighting can be created at wall corners. It is suitable for use in internal and external corners in the shower, preferably positioned vertically. *(Product data sheet 15.8)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	DIMENSIONS OF LED MODULE	
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (cm)
RGB+W		IP67		250

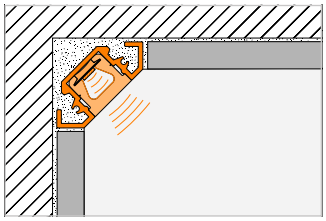
Length of supply line: 12 cm with plug connector

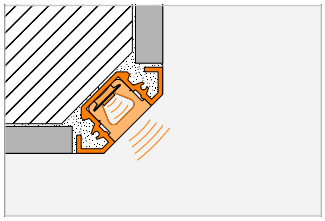


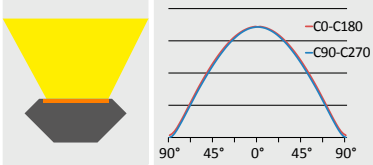


PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
5	280	92	3000 / 4900	242 / 274	E / E	3 / 3	IP67	
				242 / 274	E / E	6 / 6		
				242 / 274	E / E	10 / 11		
				242 / 274	E / E	13 / 13		
15	112	90	2700	375	F	3		
				375	F	5		
				375	F	9		
				375	F	11		

Note: LED strips can be shortened every 25 mm (warm white/neutral white) or 62.5 mm (RGB+W).
Max. length of aligned LED modules in the LIPROTEC-EASY System: RGB+W = 6 m, white = 18 m
The specified light current refers to the entire light-emitting surface of the LED tube and may be reduced in the installed state, depending on the profile material and geometry.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.



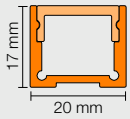


PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
15	112	90	2700	323	F	11	IP67	

Note: LED strips can be shortened every 62.5 mm.
Max. length of aligned LED modules in the LIPROTEC-EASY System: 6 m
The specified energy efficiency classes refer to the light-emitting surface of the LED strip. This surface is determined by the profile geometry.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.

Schlüter®-LIPROTEC-LL

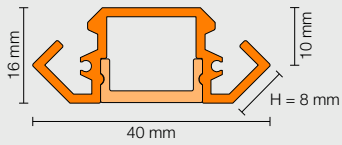
Schlüter-LIPROTEC-LL is a high quality, anodised aluminium carrier profile for creating accent lighting in wall coverings and ceilings. The illumination is provided by Schlüter-LIPROTEC-ES LED strips laid into the U-shaped profile, in combination with the corresponding diffuser lens. Various direct or indirect light effects are created according to the positioning of the profile. *(Product data sheet 15.5)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
WARM WHITE/ NEUTRAL WHITE	vertical installation only	IP67		2.5	50
					100
					150
					200
					250
					400
RGB+W					50
					100
					150
					200
					250
					400

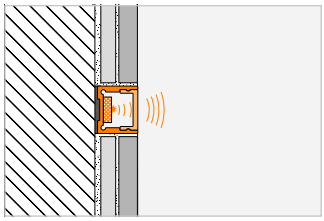
Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

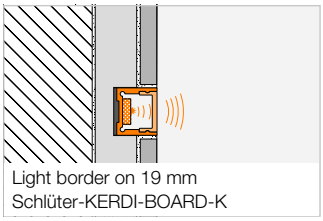
Schlüter®-LIPROTEC-LLE

Schlüter-LIPROTEC-LLE is a high quality carrier profile made of anodised or white coated aluminium for mounting the Schlüter-LIPROTEC-ES LED strips. The profile is designed to create accent lighting in wall corners. It is suitable for use in internal and external corners in horizontal or vertical alignment. With the use of the respective pre-fabricated parts, it can also be installed continuously around corners. The profile can either be simply attached to any suitable substrate with a clip system or is embedded in the tile adhesive. For lighting, the selected LIPROTEC-ES LED strip is adhered within the profile and covered with the corresponding diffuser lens. *(Product data sheet 15.7)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
WARM WHITE/ NEUTRAL WHITE	vertical installation only	IP67		2.5	50
					100
					150
					200
					250
					400
RGB+W					50
					100
					150
					200
					250
					400

Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

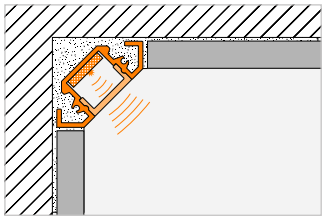


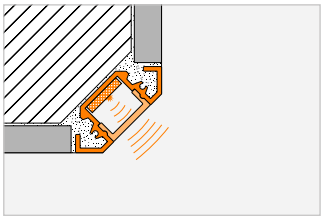


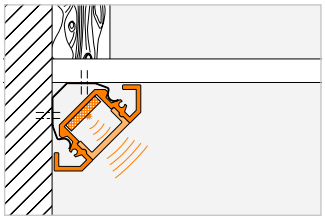
Light border on 19 mm
Schlüter-KERDI-BOARD-K

PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
7.5	140	92	3400 / 4900	708 / 700	F / F	4 / 4	IP67	
				730 / 752	E / F	8 / 8		
				746 / 721	E / E	11 / 11		
				719 / 756	E / E	14 / 15		
				771 / 741	E / E	18 / 17		
				666 / 633	E / F	26 / 26		
15.0	192 (96 RGB + 96 W)	85	2700	387	G	4		
				393	G	7		
				403	G	8		
				406	G	12		
				405	G	15		
				375	G	24		

Note: LED strips can be shortened every 50 mm (warm white/neutral white) or 62.5 mm (RGB+W).
The specified energy efficiency classes exclusively refer to the LED strip.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.





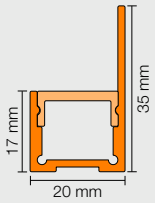
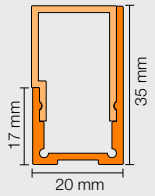


PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
7.5	140	92	3400 / 4900	708 / 700	F / F	4 / 4	IP67	
				730 / 752	E / F	8 / 8		
				746 / 721	E / E	11 / 11		
				719 / 756	E / E	14 / 15		
				771 / 741	E / E	18 / 17		
				666 / 633	E / F	26 / 26		
15.0	192 (96 RGB + 96 W)	85	2700	387	G	4		
				393	G	7		
				403	G	8		
				406	G	12		
				405	G	15		
				375	G	24		

Note: LED strips can be shortened every 50 mm (warm white/neutral white) or 62.5 mm (RGB+W).
The specified energy efficiency classes exclusively refer to the LED strip.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.

Schlüter®-LIPROTEC-WS

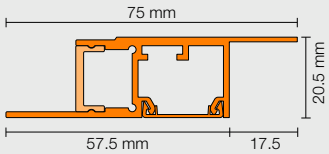
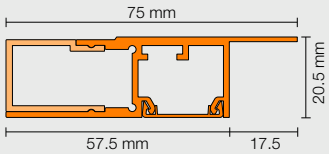
Schlüter-LIPROTEC-WS is a high quality carrier profile of anodised aluminium for illuminating protruding wall panels with various Schlüter-LIPROTEC-ES LED strips integrated into the profile. Differing light effects are created in combination with two different diffuser lenses. The assembly can be used to create recessed direct or indirect lighting for on-wall structures. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation. *(Product data sheet 15.2)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
WARM WHITE/ NEUTRAL WHITE	vertical installation only	IP67	INDIRECT 	1	50 100 150 200
				1.5	250 400
RGB+W			DIRECT  not in the shower		50 100
				2.5	150 200 250 400

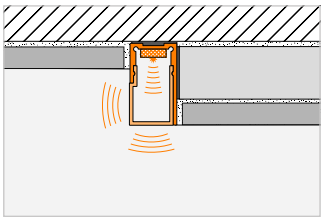
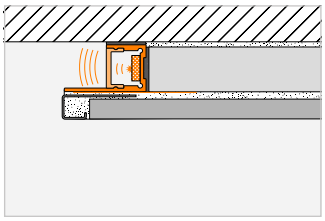
Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

Schlüter®-LIPROTEC-WSK

Schlüter-LIPROTEC-WSK is a high quality, anodised aluminium carrier profile for illuminating protruding wall panels with various Schlüter-LIPROTEC-ES LED strips laid into the profile. Differing light effects are created in combination with two different diffuser lenses. Recessed, indirect or narrow illumination for wall protrusions are created in this way. An integrated cable duct with milling grooves for cable installation and a support bracket for Schlüter-KERDI-BOARD (19 mm) aid the installation process. *(Product data sheet 15.2)*

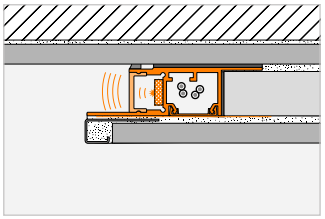
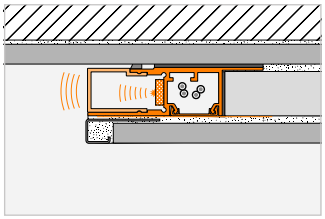
PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
WARM WHITE/ NEUTRAL WHITE	vertical installation only	IP67	INDIRECT 	2.5	50 100 150 200 250 400
RGB+W			DIRECT  not in the shower		50 100 150 200 250 400

Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
7.5	140	92	3400 / 4900	708 / 700	F / F	4 / 4	IP67	INDIRECT
				730 / 752	E / F	8 / 8		
				746 / 721	E / E	11 / 11		
				719 / 756	E / E	14 / 15		
				771 / 741	E / E	18 / 17		
				666 / 633	E / F	26 / 26		
15	192 (96 RGB + 96 W)	85	2700	387	G	4		DIRECT
				393	G	7		
				403	G	8		
				406	G	12		
				405	G	15		
				375	G	24		

Note: LED strips can be shortened every 50 mm (warm white/neutral white) or 62.5 mm (RGB+W).
The specified energy efficiency classes exclusively refer to the LED strip.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.

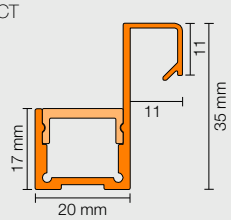
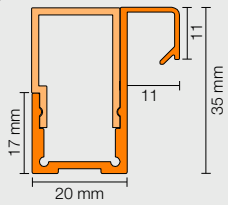



PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
7.5	140	92	3400 / 4900	708 / 700	F / F	4 / 4	IP67	INDIRECT
				730 / 752	E / F	8 / 8		
				746 / 721	E / E	11 / 11		
				719 / 756	E / E	14 / 15		
				771 / 741	E / E	18 / 17		
				666 / 633	E / F	26 / 26		
15	192 (96 RGB + 96 W)	85	2700	387	G	4		DIRECT
				393	G	7		
				403	G	8		
				406	G	12		
				405	G	15		
				375	G	24		

Note: LED strips can be shortened every 50 mm (warm white/neutral white) or 62.5 mm (RGB+W).
The specified energy efficiency classes exclusively refer to the LED strip.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.

Schlüter®-LIPROTEC-WSQ

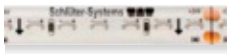
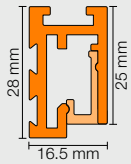
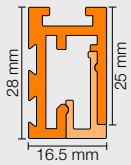
Schlüter-LIPROTEC-WSQ is a high quality carrier profile of anodised aluminium for illuminating raised wall panels with various Schlüter-LIPROTEC-ES LED strips integrated into the profile. Differing light effects are created in combination with two different diffuser lenses. The assembly can be used to create recessed direct or indirect lighting for on-wall structures. LIPROTEC-WSQ features a formed cover finish with timelessly modern Schlüter-QUADEC design. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation. *(Product data sheet 15.2)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
WARM WHITE/ NEUTRAL WHITE	vertical installation only	IP67	INDIRECT 	2.5	50 100 150 200 250 400
RGB+W			DIRECT  not in the shower		50 100 150 200 250 400

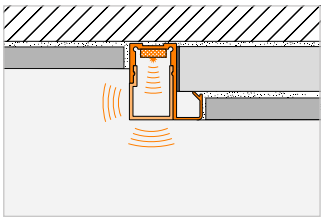
Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

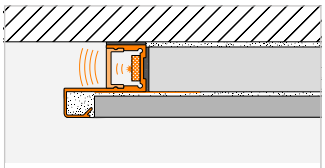
Schlüter®-LIPROTEC-PB

Schlüter-LIPROTEC-PB is a high quality edge profile of anodised aluminium with a visible area of 25 mm. It is designed for mounting Schlüter-LIPROTEC-ES LED strips and can be used with Schlüter-TREP stair nosing profiles to create appealing lighting along the edges of platforms. Differing light effects are created in combination with two different diffuser lenses. Edges can either be illuminated indirectly or directly by adding a 3 mm light strip. Another application area of LIPROTEC-PB is the direct or indirect illumination of work surface front edges. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation. *(Product data sheet 15.4)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS			DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)		LENGTH (m)	LENGTH (cm)
WARM WHITE / NEUTRAL WHITE 		IP65	INDIRECT 	DIRECT 	1	50 100
					1.5	150 200
					2.5	250 400

Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

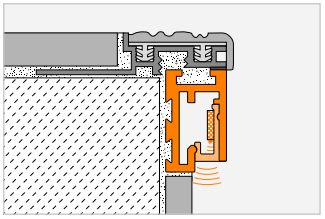


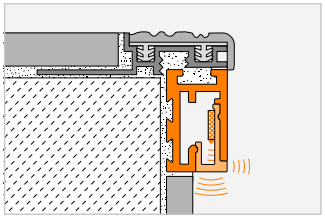


Wall panel on 19 mm
Schlüter-KERDI-BOARD

PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
7.5	140	92	3400 / 4900	708 / 700	F / F	4 / 4	IP67	INDIRECT
				730 / 752	E / F	8 / 8		
				746 / 721	E / E	11 / 11		
				719 / 756	E / E	14 / 15		
				771 / 741	E / E	18 / 17		
				666 / 633	E / F	26 / 26		
15	192 (96 RGB + 96 W)	85	2700	387	G	4		DIRECT
				393	G	7		
				403	G	8		
				406	G	12		
				405	G	15		
				375	G	24		

Note: LED strips can be shortened every 50 mm (warm white/neutral white) or 62.5 mm (RGB+W).
The specified energy efficiency classes exclusively refer to the LED strip.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.



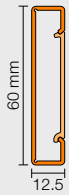


PHOTOMETRIC DATA								
RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
7.5	140	92	3200 / 4900	610 / 650	F / F	4 / 4	IP65	INDIRECT
				614 / 621	F / F	8 / 8		
				603 / 636	F / F	11 / 11		
				621 / 637	F / F	15 / 15		DIRECT
				566 / 630	F / F	18 / 18		
				541 / 587	F / F	26 / 27		

Note: LED strips can be shortened every 50 mm (warm white/neutral white).
The specified energy efficiency classes exclusively refer to the LED strip.

Schlüter®-DESIGNBASE-QD

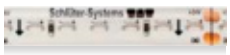
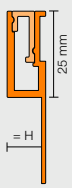
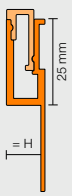
Schlüter-DESIGNBASE-QD is a high quality profile of anodised aluminium for versatile applications. It is designed for mounting various Schlüter-LIPROTEC-ES LED strips as a skirting or border profile in wall areas. A 39 mm diffuser lens is then used between the 10 mm wide (approx.) visible areas of the profile to create direct illumination. Other decorative materials such as tiles or wooden elements can also be inserted in the open space. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation.
(Product data sheet 16.1)

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
WARM WHITE / NEUTRAL WHITE	vertical installation only	IP67		2.5	50 100 150 200 250 400

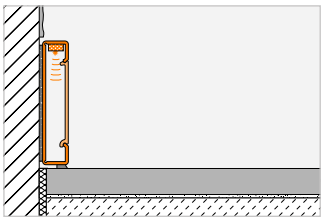
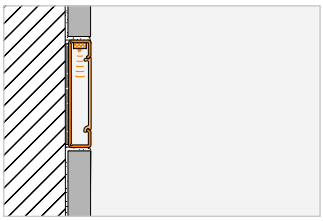
Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

Schlüter®-LIPROTEC-VB

Schlüter-LIPROTEC-VB is a high quality tile finishing profile for wall areas, with a visible area of 25 mm. It is designed for mounting Schlüter-LIPROTEC-ES LED strips and can be used to create varying light effects in combination with two different diffuser lenses. Indirect light can either radiate from the profile edge to the ceiling via adjoining materials or along the skirting. Additionally, a 3 mm light strip can create direct light. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation. *(Product data sheet 15.1)*

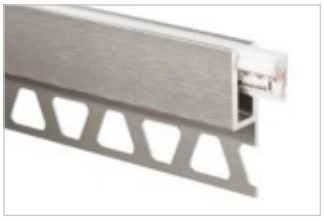
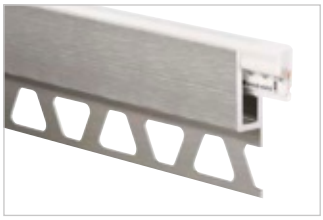
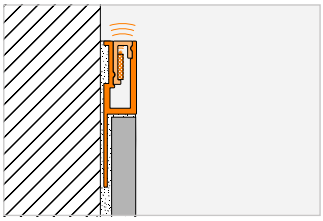
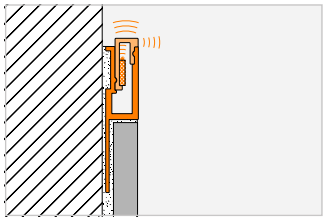
PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS			DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)		LENGTH (m)	LENGTH (cm)
WARM WHITE / NEUTRAL WHITE 		IP65	INDIRECT 	DIRECT 	1 1.5 2.5	50 100 150 200 250 400

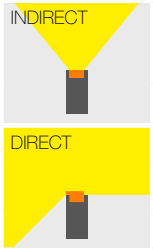
Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

	PHOTOMETRIC DATA								
	RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
	7.5	140	92	3400 / 4900	771 / 757	F / F	4 / 4	IP67	
					772 / 794	F / F	8 / 8		
					880 / 817	E / E	12 / 12		
					801 / 780	E / E	15 / 15		
					785 / 799	E / E	18 / 18		
					725 / 693	E / E	27 / 25		

Note: LED strips can be shortened every 50 mm (warm white/neutral white).
The specified energy efficiency classes exclusively refer to the LED strip.

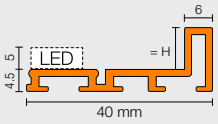





	PHOTOMETRIC DATA								
	RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
	7.5	140	92	3200 / 4900	610 / 650	F / F	4 / 4	IP65	
					614 / 621	F / F	8 / 8		
					603 / 636	F / F	11 / 11		
					621 / 637	F / F	15 / 15		
					566 / 630	F / F	18 / 18		
					541 / 587	F / F	26 / 27		

Note: LED strips can be shortened every 50 mm (warm white/neutral white).
The specified energy efficiency classes exclusively refer to the LED strip.

Schlüter®-LIPROTEC-D

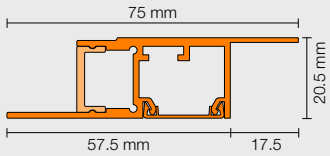
Schlüter-LIPROTEC-D is a decorative carrier profile for wall areas of anodised aluminium with a visible area of 6 mm. It allows for the insertion of various decorative materials such as glass or mirrors to adjoin ceramic tile coverings. LIPROTEC-D can be used to mount Schlüter-LIPROTEC-ES LED strips for creating indirect light effects around a decorative element. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, even after installation. *(Product data sheet 15.3)*

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS			DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)		LENGTH (m)	LENGTH (cm)
WARM WHITE / NEUTRAL WHITE		IP65		H = 4.5	2.5	50
				H = 7.5		100
						150
				H = 9.0		200
						250
				H = 16.5		400

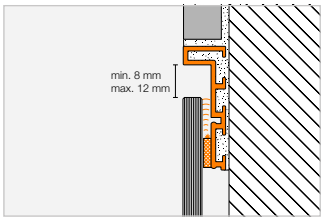
Supply line: 3 m. The 400 cm LED strips are equipped with two supply lines each. The photometric data describes the LED strips only. The optical efficiency is influenced by the properties of the diffuser lens.

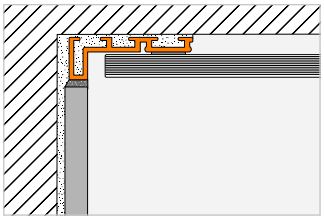
Wall panel sets (WSK)

The wall panel sets with RGB+W light make it easy to create a big impression. Simply select either the wide (128.5 cm) or narrow (70 cm) wall panel version and order the convenient profile set with it. Our RGB+W technology enables colour control with more than 16 million colour hues. It also includes a white-light range from 2500 K to 6500 K, which can be adjusted to standard ceiling lights. The controls can optionally be operated with a Bluetooth receiver. The matching Schlüter-Systems app can be downloaded for free from the Apple App Store (iOS) or Google Play (Android™).

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
RGB+W		SET	INDIRECT 	2,5	250

Supply line: 3 m. The photometric data describes the LED strips only.



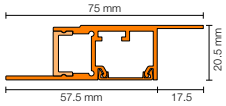


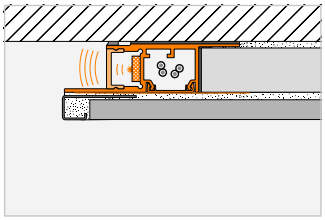
	PHOTOMETRIC DATA								
	RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
	7.5	140	92	3200 / 4900	610 / 650	F / F	4 / 4	IP65	
					614/ 621	F / F	8 / 8		
					603 / 636	F / F	11 / 11		
					621 / 637	F / F	15 / 15		
					566 / 630	F / F	18 / 18		
					541 / 587	F / F	26 / 27		

Note: LED strips can be shortened every 50 mm (warm white/neutral white).
The specified energy efficiency classes exclusively refer to the LED strip.

Schlüter-LIPROTEC-WSK 700

Schlüter-LIPROTEC-WSK 1285



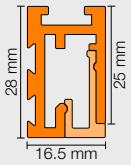


	PHOTOMETRIC DATA								
	RATED OUTPUT (W / m)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
	15	192 (96 RGB + 96 W)	85	2700	405	2 x G	2 x 15	IP67	INDIRECT

Note: LED strips can be shortened every 62.5 mm (RGB+W).
The specified energy efficiency classes exclusively refer to the LED strip.
In the case of RGB+W LEDs, light current, energy efficiency class and weighted consumption refer to white light only.

Staircase sets (PB)

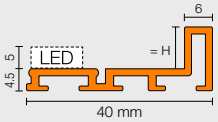
Schlüter-LIPROTEC-PB stair sets put light in the middle of stair steps. The PB 15 sets for 15 steps have 60 cm wide LED modules pre-mounted in the middle. With their diffuser lenses, they provide indirect illumination with a discreet line of light. The combinations of aluminium carrier profile and diffuser lens are 100/150 cm long and can be shortened individually as required. The LED modules have a 4500 K neutral white colour temperature and are cabled by means of a simple coupling system; a 500 cm connection cable and power supply are included in the set. If that isn't enough, the stair set can be expanded to 18 steps with only one supply line. With this in mind, use the Schlüter-LIPROTEC-PB-1 single-step sets.

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS		DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)	LENGTH (m)	LENGTH (cm)
NEUTRAL WHITE		SET	DIRECT 	1	60
				1.5	60
				1 (15 units)	60 (15 units)
				1.5 (15 units)	60 (15 units)

The photometric data describes the LED strips only.

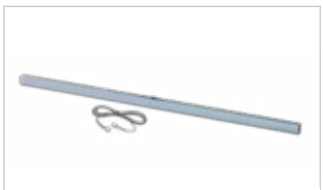
Decorative frame sets (D)

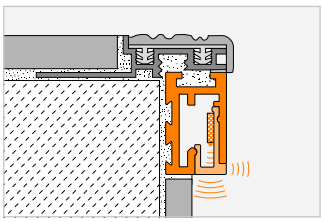
Schlüter-LIPROTEC-D 90 are sets for creating illuminated decorative frames. With these sets, mirrors or design elements such as printed glass or decor panels can be elegantly framed with indirect LED lighting. The support profiles are already mitre-cut. Four matching Schlüter-LIPROTEC-ES-LED strips with a colour temperature of 3200 K (warm white) or 4900 K (neutral white) are included in the set, as well as the power supply unit and all material for assembly and wiring.

PROFILES / TYPE OF LIGHT	APPLICATION AREA	PROPERTIES	PROFILE DIMENSIONS			DIMENSIONS LED STRIPS
	ALUMINIUM		WIDTH / HEIGHT (mm)		LENGTH (m)	LENGTH (cm)
S1 WARM WHITE		SET		H = 9.0	1.185 / 0.935 (2 units)	110 / 85 (2 units)
S2 NEUTRAL WHITE						

Supply line: 3 m. The photometric data describes the LED strips only.

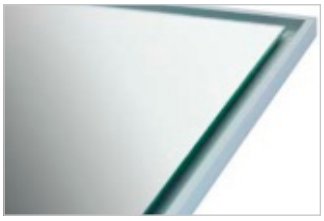
Schlüter-LIPROTEC-PB 15

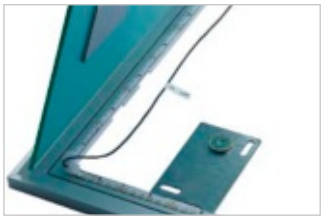

Schlüter-LIPROTEC-PB 1

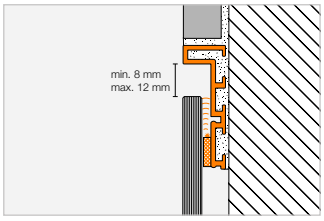


	PHOTOMETRIC DATA								
	RATED OUTPUT (W)	NUMBER OF LEDs (Unit)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
	3.7	72	80	4500	375	E	3	IP20	DIRECT
						15 x E	15 x 3		

Note: Single step sets are delivered with a 70 cm connecting cable.
Complete sets with 15 profiles are supplied with a 500 cm cable supply line and 14 x 70 cm connecting cables.
The specified energy efficiency classes exclusively refer to the LED strip.







	PHOTOMETRIC DATA								
	RATED OUTPUT (Set)	NUMBER OF LEDs (LEDs / m)	CRI	COLOUR TEMPERATURE (Kelvin)	LIGHT CURRENT (lm / m)	EEC	kWh / 1000 h	DEGREE OF PROTECTION	LIGHT DIRECTIONS
	29,3	140	92	3200	595	4 x F	2 x 8 2 x 11	IP65	
	28,9			4900	609	4 x F	2 x 8 2 x 11		

Note: LED strips can be shortened every 50 mm (warm white/neutral white).
The energy efficiency class and the weighted consumption refer to the unshortened LED strips only.
The rated output describes the power rating for the LED strips that have been shortened to size for the installation.

CLASSIC control

Schlüter®-LIPROTEC-PEBR | Schlüter®-LIPROTEC-EBR

Technical specifications for control

	LT PEBR 1	LT PEBR 4	LT EBR 1	LT EBR 4
Version	EASY	EASY	PRO	PRO
Receiver/remote control transmission standard	Bluetooth/radio	Bluetooth/radio	Bluetooth/radio	Bluetooth/radio
Use with LED modules	white	RGB+W	–	–
Use with LED strips	–	–	LT ES 11 – LT ES 61	LT ES 9
Max. range	10 m	10 m	10 m	10 m
Input voltage	24 V, DC	24 V, DC	24 V, DC	24 V, DC
Max. total load in the LIPROTEC system	90 W	90 W	180 W	180 W
Max. length LED strips	18 m	6 m	24 m	12 m
Degree of protection	IP 63	IP 63	IP 63	IP 63
Ambient temperature	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C

ZONES control

Schlüter®-LIPROTEC-PEBZS | Schlüter®-LIPROTEC-EBZS

Technical specifications for ZONES starter sets

	LT PEB ZS 1	LT PEB ZS 4	LT PEB ZS 1/4	LT EB ZS 1	LT EB ZS 4	LT EB ZS 1/4
Version	EASY	EASY	EASY	PRO	PRO	PRO
Transmission standard	Bluetooth Mesh	Bluetooth Mesh	Bluetooth Mesh	Bluetooth Mesh	Bluetooth Mesh	Bluetooth Mesh
Max. range	10 m	10 m	10 m	10 m	10 m	10 m
Input voltage	24 V, DC	24 V, DC	24 V, DC	24 V, DC	24 V, DC	24 V, DC
Max. total load in the LIPROTEC system	2 x 90 W	2 x 90 W	2 x 90 W	2 x 180 W	2 x 180 W	2 x 180 W
Max. length LED strips	2 x 18 m	2 x 6 m	white: 18 m. RGB+W: 6 m	2 x 24 m	2 x 12 m	white: 24 m. RGB+W: 12 m
Degree of protection	IP 63	IP 63	IP 63	IP 63	IP 63	IP 63
Ambient temperature	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C

Schlüter®-LIPROTEC-PEBZR | Schlüter®-LIPROTEC-EBZR

Technical specifications for ZONES receivers

	LT PEB ZR 1	LT PEB ZR 4	LT EB ZR 1	LT EB ZR 4
Version	EASY	EASY	PRO	PRO
Transmission standard	Bluetooth Mesh	Bluetooth Mesh	Bluetooth Mesh	Bluetooth Mesh
Max. range	10 m	10 m	10 m	10 m
Input voltage	24 V, DC	24 V, DC	24 V, DC	24 V, DC
Max. total load in the LIPROTEC system	90 W	90 W	180 W	180 W
Max. length LED strips	18 m	6 m	24 m	12 m
Degree of protection	IP 63	IP 63	IP 63	IP 63
Ambient temperature	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C

CLASSIC/ZONES rotary control

Schlüter®-LIPROTEC-ERP | Schlüter®-LIPROTEC-ERPZ

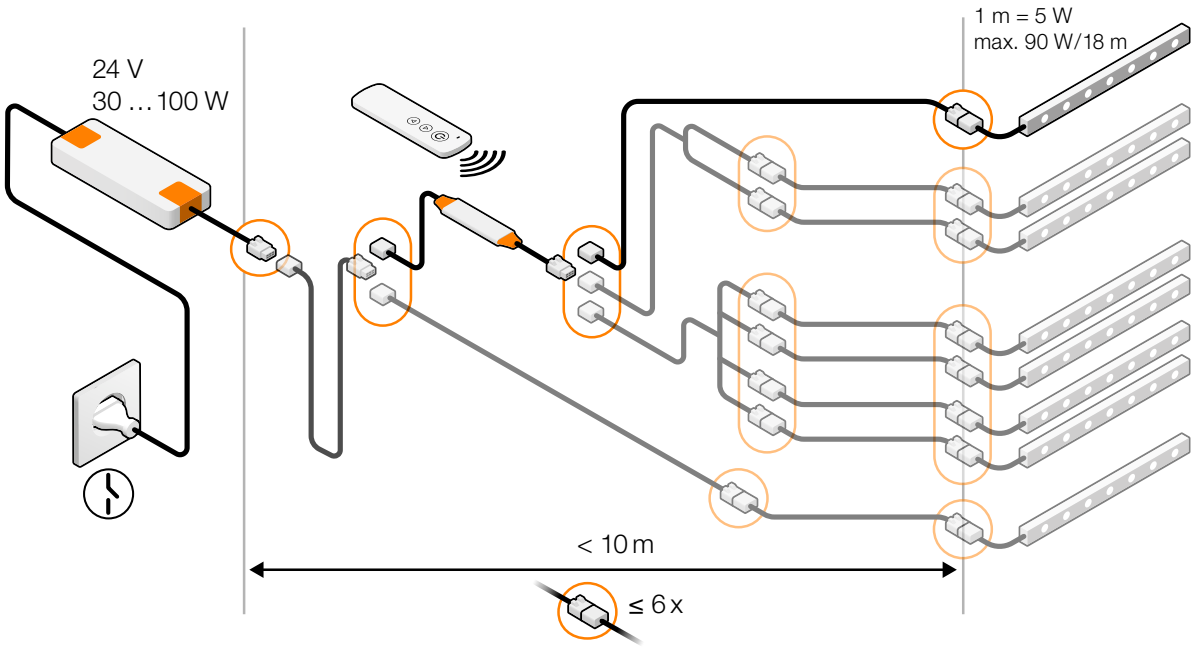
Technical specifications for rotary control

	LT ERP	LT ERPZ
Version	CLASSIC	ZONES
Transmission standard	Radio (433.92 MHz)	Bluetooth Mesh
Max. range	10 m	10 m
Battery type	CR2032	CR2032
Degree of protection	IP 20	IP 20
Ambient temperature	+10 °C to +50 °C	+10 °C to +50 °C

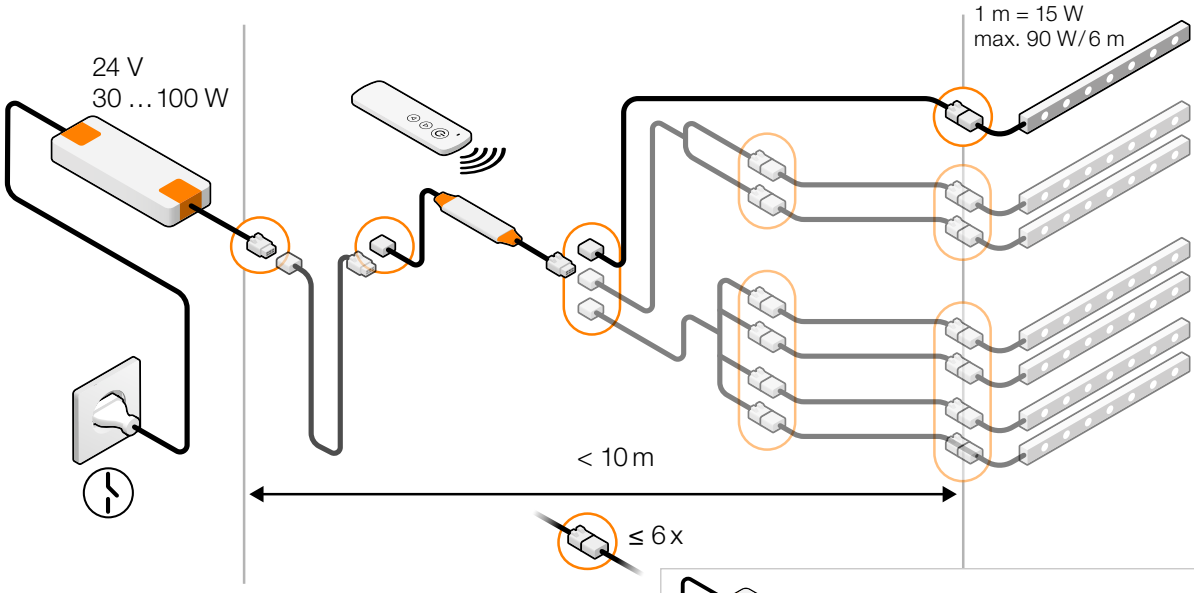
Note:
The rotary control must be protected against direct exposure to water.
It can only be combined with flat frames measuring 55 x 55 mm.

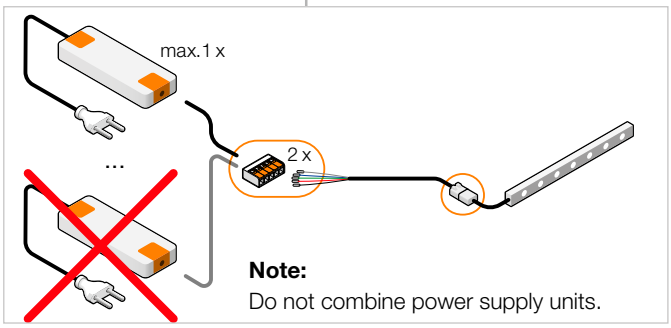
LIPROTEC-EASY-CLASSIC wiring diagrams

LED module *WW / NW*



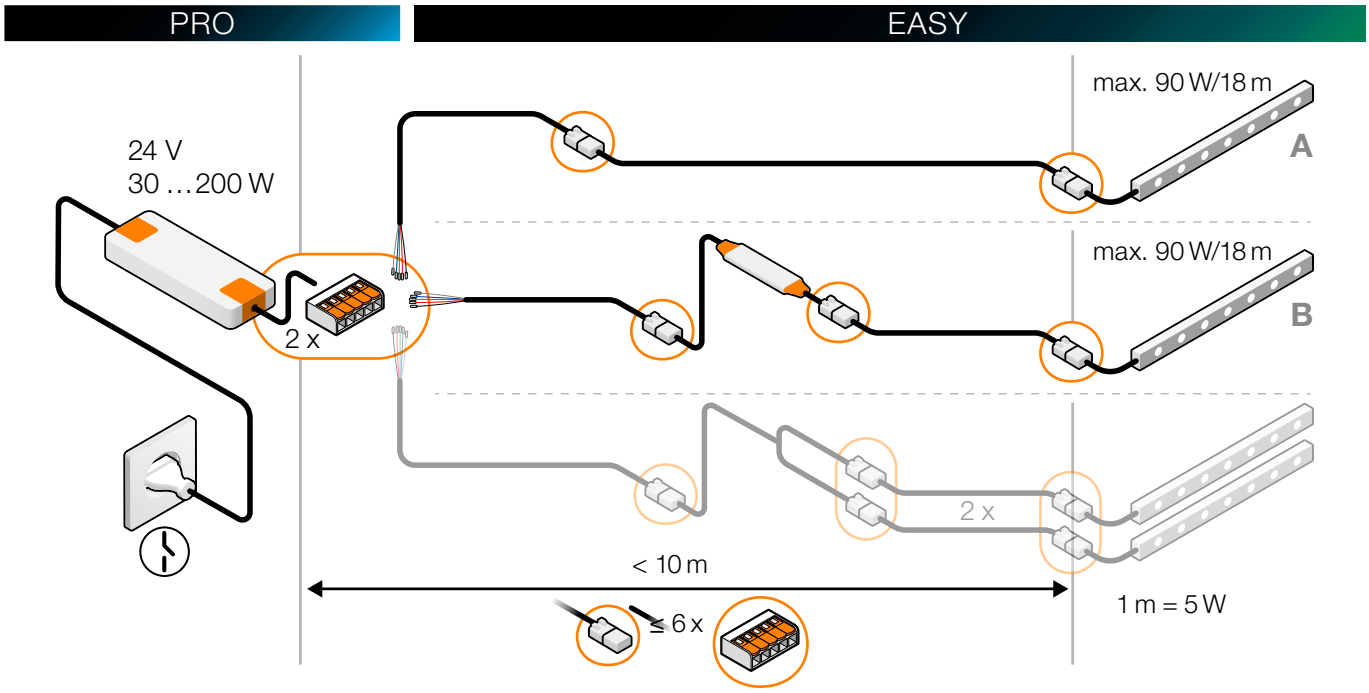
LED module *RGB+W*





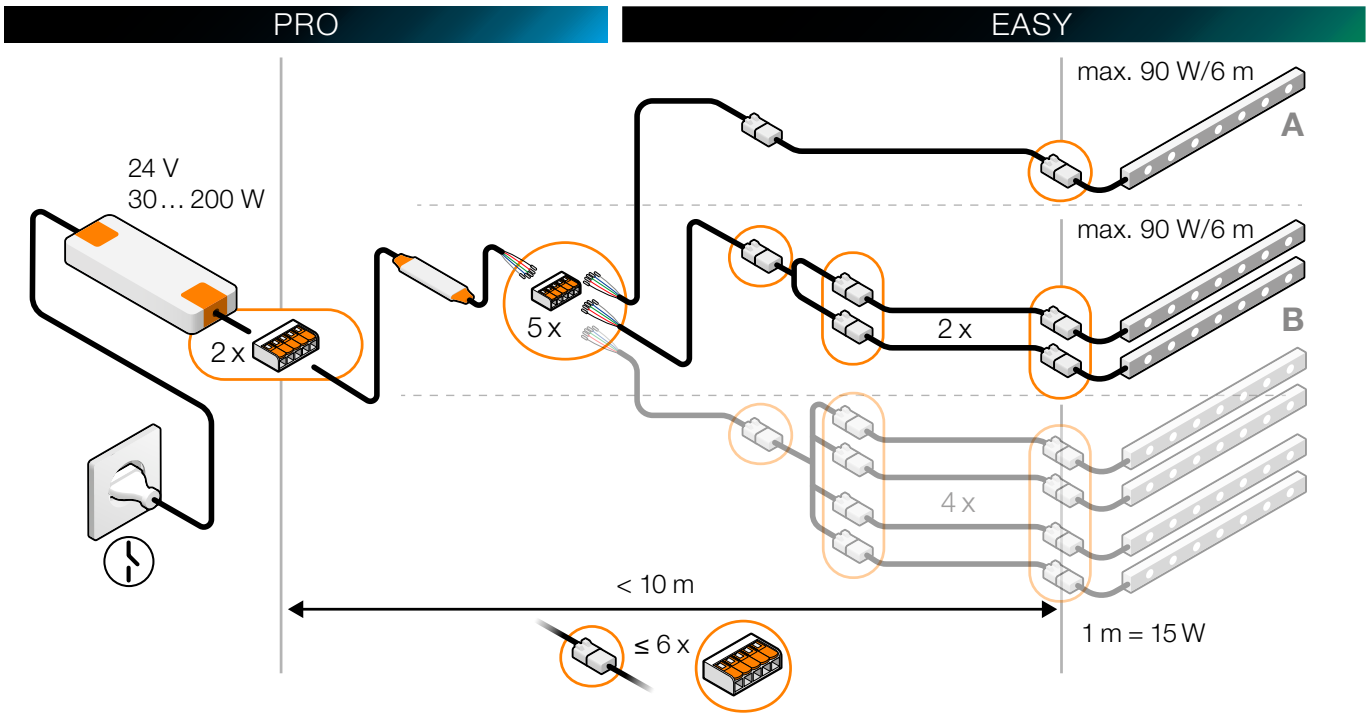
LIPROTEC-EASY and -PRO-CLASSIC wiring diagrams using an adapter

LED module *WW / NW*



Note: Max. length of LED modules in a row in the LIPROTEC-EASY system when using the plug-and-play adapter: 18 m per cable strand (A or B) depending on the power supply unit used.

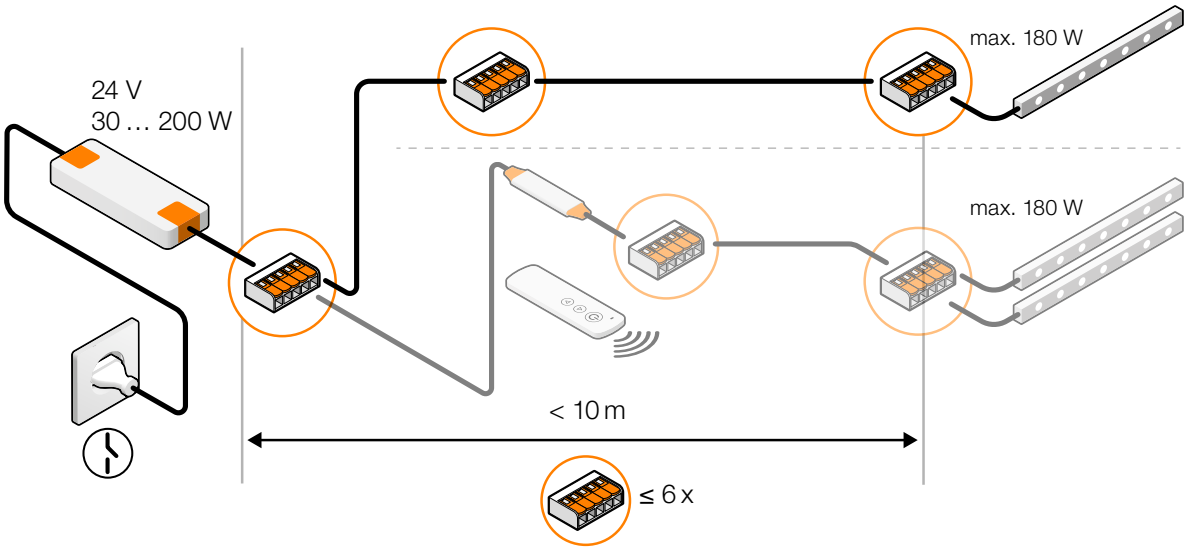
LED module *RGB+W*



Note: Max. length of LED modules in a row in the LIPROTEC-EASY system when using the plug-and-play adapter: 6 m per cable strand (A or B) depending on the power supply unit used.

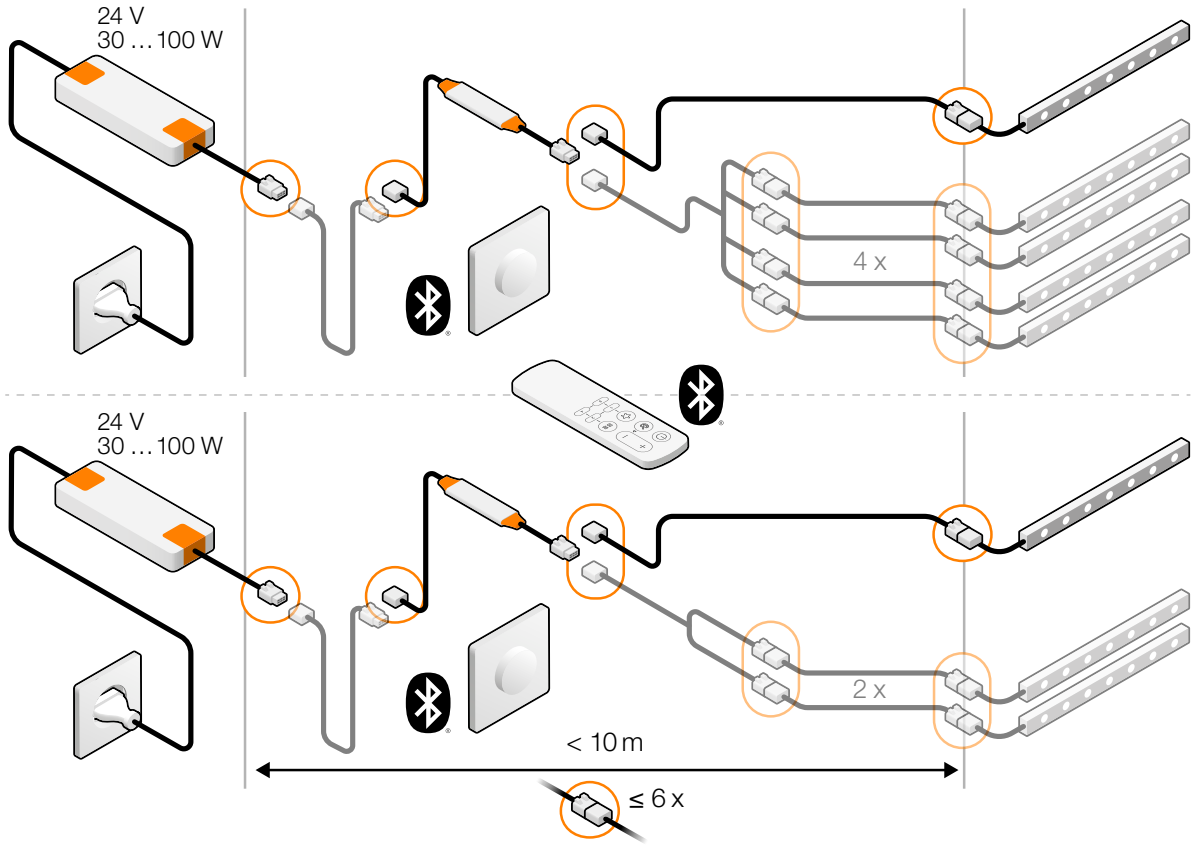
LIPROTEC-PRO wiring diagrams

Use of Wago connectors in the PRO system



LIPROTEC-EASY-ZONES wiring diagrams

LED strips *WW / NW / RGB+W*



Schlüter®-LIPROTEC application areas

Schlüter®-LIPROTEC-VB
Schlüter®-LIPROTEC-VB
Schlüter®-DESIGNBASE-LLPM
Schlüter®-LIPROTEC-LL/-LLPM/-LLP
Schlüter®-LIPROTEC-LL/-LLPM/-LLP
Schlüter®-LIPROTEC-PB
Schlüter®-LIPROTEC-WS/-WSK

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Key

Properties

- Low assembly height
- Plug-and-play enabled
- SET — Available as a set
- LED can be shortened
- IP65 — IP X5 (protection against water jets)
- IP67 — IP X7 (protection against temporary submersion)
- Bluetooth-enabled
- Radio-compatible

Packaging units

P = box packaging
KV = case packaging
PL = euro pallet
Unit = units

Dimensions

H = height
L = length
B = width
T = depth

Innovations

New product

Application areas

- Suitable for use on the wall in the shower area
- Suitable for use on walls in interior spaces
- Suitable for use on the ceiling
- Suitable for use in inner corners of rooms
- Suitable for use on an external room corner
- Suitable for use on the floor of privately used areas
- Suitable for use on staircase steps
- For use in pool landscapes, but not underwater (increased resistance against chlorine)
- Suitable for use on walls in exterior spaces

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Information

Find out more!

Did we pique your interest in the illuminated profile technology of Schlüter-Systems? Then you might like to learn more. The fastest way is to visit our website. For more information, visit **liprotec.co.uk**.

Please refer to the Technical Manual or the operating instructions accompanying the product for detailed technical information on the installation of Schlüter-LIPROTEC.

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