

Schlüter®-LIPROTEC

Illustrated price list LT 18

Great Britain · Effective 1 January 2018



2018

Switch on progress – with Schlüter®- LIPROTEC illuminated profile technology








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Economic and convenient: controlling
Schlüter®-LIPROTEC via Bluetooth app.

Please observe the following designations in the price list:

-  Light control via Bluetooth/via app
-  Light control via radio
-  Product is suitable for vertical wall installation in showers

Designing living spaces – with light and ceramic tiles.

The use of light is an essential factor in the design of room aesthetics and atmospheres. Modern lighting technology offers many options for creative and decorative interior design that go beyond the purpose of illumination. Whether you need soft, relaxing light for restful spaces, neutral light for work areas, or coloured ambient accents, the modern LED light technology of Schlüter®-LIPROTEC is designed specifically to bring the right type of light to the right place. It represents an effective and integrated method for creating environments that



precisely meet the individual requirements of developers, clients, designers, architects and specifiers. The proven profile technology of Schlüter-Systems used for the first time in combination with next generation lighting and control technology, ensures the harmonious integration of profiles and light into the living landscape. Pre-assembled sets with profiles, LED strips and installation accessories are available for many applications, enabling significantly quicker installations.

Schlüter®-LIPROTEC

Illuminated profile technology

- ✓ Lighting technology for sustainable building. Durable. Efficient.
- ✓ High-quality aluminium profiles.
- ✓ Simple installation of the profiles with tile adhesive.
- ✓ Practical, complete sets available.
- ✓ Uniform homogeneous light distribution with high-quality LED strips.
- ✓ IP certified LED strips making them suitable for high-moisture areas.
- ✓ Three types of light – the choice is yours.
- ✓ Simple clip-on installation of diffuser lenses.
- ✓ Designated products are suitable for installation in showers.
- ✓ Complete system packages from a single source.
- ✓ Innovative control via Bluetooth or radio.
- ✓ Online selection aid at www.liprotec.co.uk.



Aesthetic and reliable!

Schlüter®-LIPROTEC-PB is our universal solution for illuminated platform 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 stair edges, combine Schlüter®-LIPROTEC-PB with high quality Schlüter®-TREP profiles. For staircases, we recommend the new complete sets and combination sets, specified on pages 34 to 35.



Application areas:

Direct and/or indirect illumination of:

- ✓ Step edges
- ✓ Worktop edges

Combinable with Schlüter®-LIPROTEC diffuser lenses:

- ✓ for indirect light
Art.-No. LT VB I
- ✓ for indirect and direct light
Art.-No. LT PB D

The following accessories are available for the profile:

- ✓ Power supply
- ✓ Receiver
- ✓ Switch
- ✓ Installation material

Combinable with Schlüter®-LIPROTEC LED strips:

- ✓ warm white (3300 Kelvin)
Art.-No. LT ES 5
- ✓ neutral white (4500 Kelvin)
Art.-No. LT ES 6

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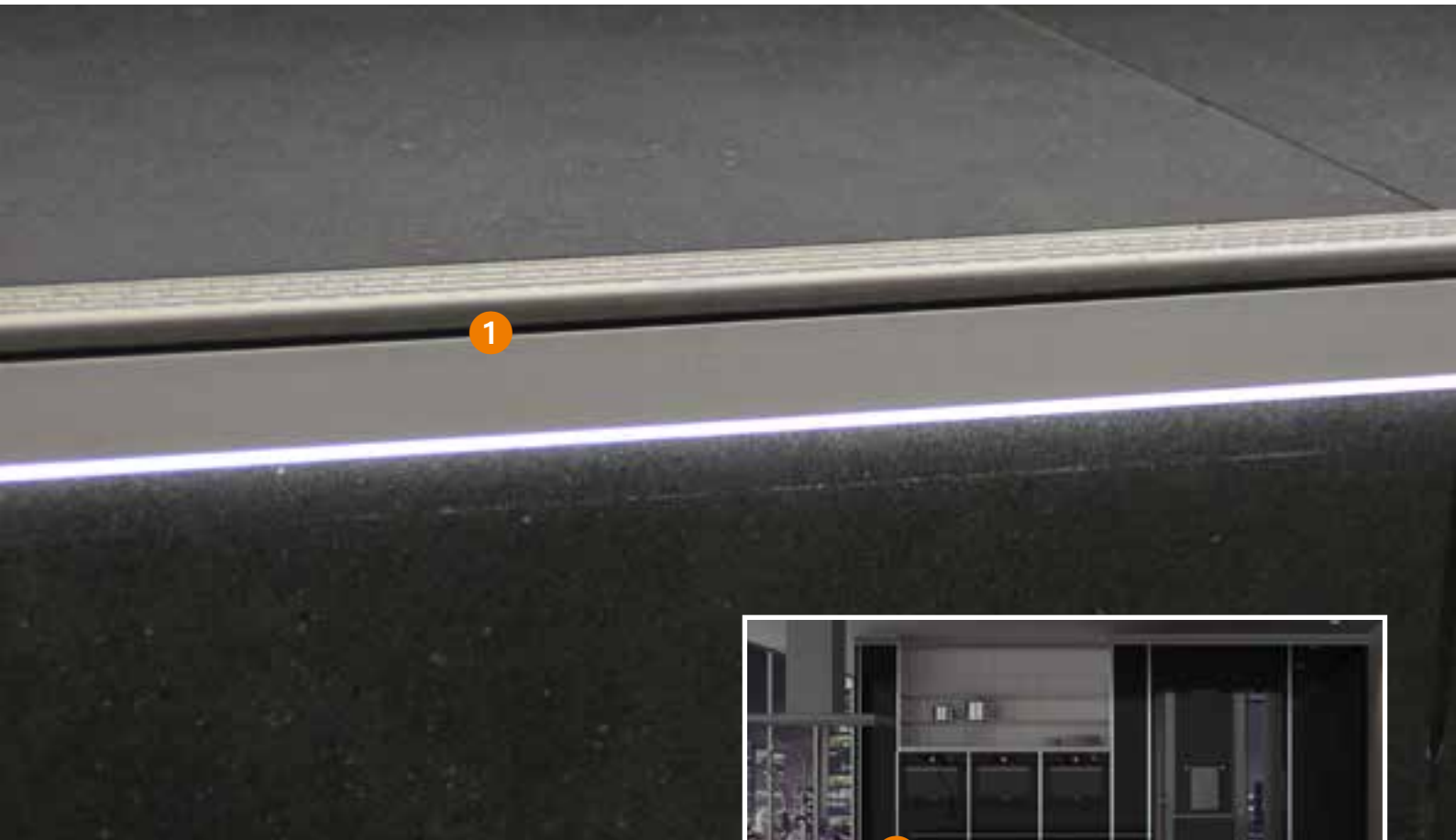
Complete sets!

See page 34 for the complete staircases set.





- 1 Profile AE
- 2 Profile AEEB
- 3 LED strip
- 4 Diffuser lens (indirect light)
- 5 Diffuser lens (indirect and direct light)



Ordering examples

1 Illuminated step, step width 220 cm, neutral white 4500 K

- 1 x profile LT PB 25 AE
- 1 x diffuser lens LT PB D
- 2 x end caps EK / LT PB AE
- 1 x LED strip LT ES 6
- 1 x power supply LT EK 24V 30W
- 1 x receiver LT ER 1
- 1 x 1 channel switch, glass or stainless steel cover, LT E1 KS...**
- 1 x set installation material (cage clamp terminal, junction boxes, top, 10 m cable (twin core))



2 Countertop edge for kitchen island, perimeter illumination, aluminium brushed anodised stainless steel, 74 x 300 cm, neutral white 4500 K

- 2 x profiles LT PB 25 AEEB
- 2 x profiles LT PB 25 AEEB/150
- 2 x diffuser lenses LT VB I
- 2 x diffuser lenses LT VB I/150
- 2 x LED strips LT ES 6
- 2 x LED strips LT ES 6/50
- 2 x LED strips LT ES 6/100
- 1 x power supply LT EK 24V 100W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation

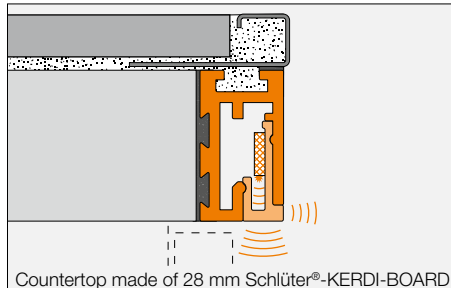
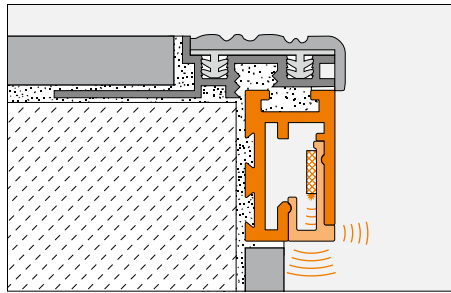


** Add code for the finish of the switch cover: BW – EB (e.g. LT E1 KS EB)

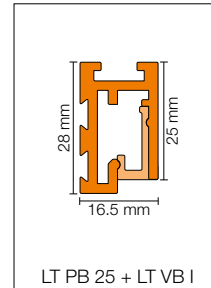
Schlüter®-LIPROTEC-PB

Schlüter®-LIPROTEC-PB is a high quality platform edge profile of anodised aluminium with a visible area of 25 mm. It is designed for the attachment of Schlüter®-LIPROTEC-ES LED strips and can be used with Schlüter®-TREP stair nosing profiles to create appealing lighting along the edges of platforms. The combination with two different diffuser lenses creates varying light effects. Edges can either be illuminated indirectly or directly by adding a 3 mm light strip. Another application area of Schlüter®-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, including after installation.

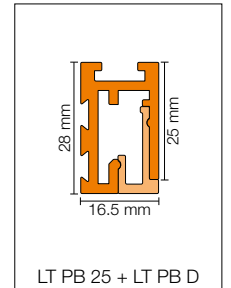
(Product data sheet 15.4)



Countertop made of 28 mm Schlüter®-KERDI-BOARD



LT PB 25 + LT VB I



LT PB 25 + LT PB D

Schlüter®-LIPROTEC-PB			
anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT PB 25 AE	21.54	60
1.5	LT PB 25 AE/150	21.54	60
1	LT PB 25 AE/100	21.54	60

Schlüter®-LIPROTEC-PB-AEEB			
brushed stainless steel effect anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT PB 25 AEEB	25.39	60
1.5	LT PB 25 AEEB/150	25.39	60
1	LT PB 25 AEEB/100	25.39	60



EK/LT PB



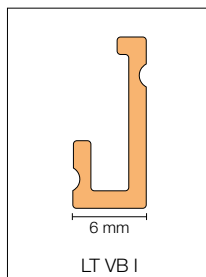
V 90/LT 10/4

Schlüter®-LIPROTEC-PB/EK			
end cap, anodised aluminium			
Art.-No.	£ / U.	P = Unit	
EK / LT PB AE	3.68	50	

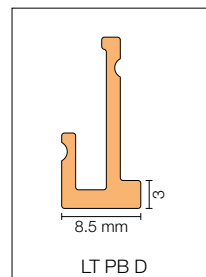
Schlüter®-LIPROTEC-PB-AEEB/EK			
end cap, brushed stainless steel anodised aluminium			
Art.-No.	£ / U.	P = Unit	
EK / LT PB AEEB	4.30	50	

Schlüter®-LIPROTEC-D/V			
corner connector set, 4 pc.			
Art.-No.	£ / Set	P = Set	
V 90 / LT 10/4	4.85	50	

Schlüter®-LIPROTEC-VBI			
diffuser lens, indirect illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT VB I	14.44	60
1.5	LT VB I/150	14.44	60
1	LT VB I/100	14.44	60



LT VB I



LT PB D

Schlüter®-LIPROTEC-PBD			
diffuser lens, indirect and direct illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT PB D	14.53	60
1.5	LT PB D/150	14.53	60
1	LT PB D/100	14.53	60



Note:

Schlüter®-LIPROTEC-PB can be equipped with the following LED strips:
 LT ES 5 – warm white 3300 K, lateral radiation
 LT ES 6 – neutral white 4500 K, lateral radiation

See page 44/45 for LED strips.

Accentuate!

Schlüter®-LIPROTEC-WS, -WSQ and -WSK accentuates structural features in a completely new and uniform way. Whether bath tubs, shelves, steps or wall panels, either vertical or horizontal, Schlüter®-LIPROTEC lets you see everything in a completely new light.



Application areas:

Direct and/or indirect illumination of:

- ✓ Structural features
- ✓ Wall panels
- ✓ On-wall features, such as mirrors
- ✓ Cove lighting

Direct illumination in the form of:

- ✓ Light strips

Combinable with Schlüter®-LIPROTEC LED strips:

- ✓ warm white (3300 Kelvin)
Art.-No. LT ES 1
- ✓ neutral white (4500 Kelvin)
Art.-No. LT ES 2
- ✓ RGB+W (multi-colour and white light)
Art.-No. LT ES 9

Combinable with Schlüter®-LIPROTEC diffuser lenses:

- ✓ for indirect light
Art.-No. LT WS I 20
- ✓ for indirect and direct light
Art.-No. LT WS D 20

The following accessories are available for the profile:

- ✓ Power supply
- ✓ Receiver
- ✓ Switch
- ✓ End caps
- ✓ Installation material

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Get started right away!

For example: For a wall panel with a width to 128.5 cm with double-sided RGB+W lighting, combine:

- Profile set WSK 2500 – Art.-No. WS 20 K1 S2 AE
(contains 2 Schlüter®-LIPROTEC-WSK profiles, length 250 cm, with cutout for cable routing and integrated covered cable duct, including Schlüter®-LIPROTEC-WSI diffusion panels) with
- Accessory set WSK 1285 – Art.-No. WS 20 ZS 3 LT ES 9
- For innovative control via Bluetooth app, use e.g. the Bluetooth receiver EBR 4 – Art.-No. LT EBR 4 (RGB+W)

See pages 40/41 for more information about the set contents.



Schlüter®-LIPROTEC-WSK

Schlüter®-LIPROTEC-WSQ

- 1 Profile
- 2 LED strip
- 3 Diffuser lens (indirect light)
- 4 Diffuser lens (direct light)
- 5 Cable duct cover



Schlüter®-LIPROTEC-WS



Ordering examples

- 1** Illuminated wall panel, height 250 cm, multi-colour/white illuminated on both sides, profile set Art.-No. LT WS 20 K1 S2 AE + accessory set Art.-No. WS 20 ZS3 LT ES9 (See p. 40/41 for contents)

- 1 x Bluetooth receiver LT EBR 4



- 3** Illuminated wall panel, 250 cm high, illuminated warm white.

- 2 x profiles LT WS 20 AE
- 2 x diffuser lenses LT WS I 20
- 4 x end caps EK / LT WS I AE 20
- 2 x LED strips LT ES 1
- 1 x power supply LT EK 24V 100W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



- 2** Indirect skirting lighting 200 x 70 cm, neutral white 4500 K illuminated

- 2 x profiles LT WS 20 AE
- 1 x profile LT WS 20 AE/100
- 2 x diffuser lenses LT WS I 20
- 1 x diffuser lens LT WS I 20/100
- 2 x end caps EK / LT WS I AE 20
- 2 x LED strips LT ES 2/200
- 1 x LED strip LT ES 2/100
- 1 x power supply LT EK 24V 75W
- 1 x receiver LT ER 1
- 1 x 1 channel switch, glass or stainless steel cover, LT E1 KS...**
- Installation material according to building situation



- 4** Indirect ceiling lighting, 7 linear metres, warm white 3300 K illuminated

- 3 x profiles LT WS 20 AE
- 3 x diffuser lenses LT WS I 20
- 2 x end caps EK / LT WS I AE 20
- 2 x LED strips LT ES 1
- 1 x LED strip LT ES 1/200
- 1 x power supply LT EK 24V 75W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



** Add code for the finish of the switch cover: BW – EB (e.g. LT E1 KS EB)

Schlüter®-LIPROTEC-WS/-WSQ

Schlüter®-LIPROTEC-WS is a high quality support profile of anodised aluminium for illuminating protruding wall panels with various Schlüter®-LIPROTEC-ES LED strips integrated into the profile. The combination with two different diffuser lenses creates varying light effects. The assembly can be used to create recessed direct or indirect lighting for on-wall structures.

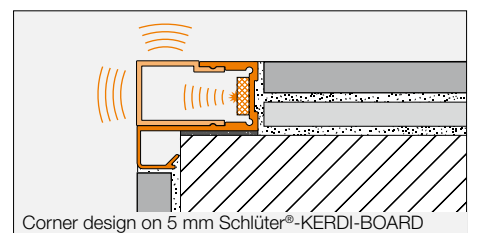
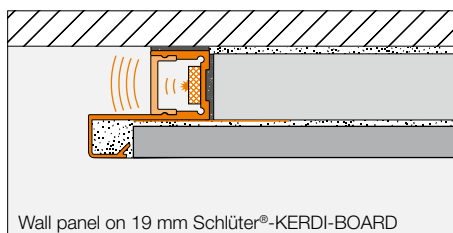
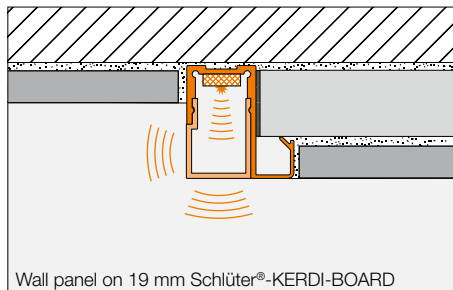
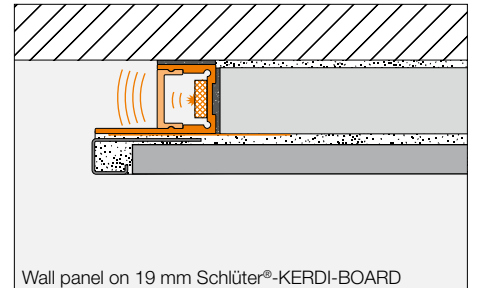
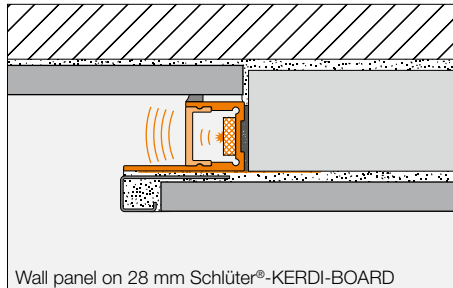
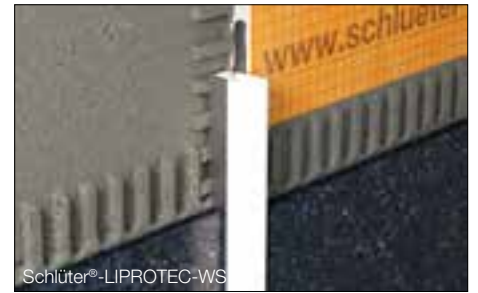
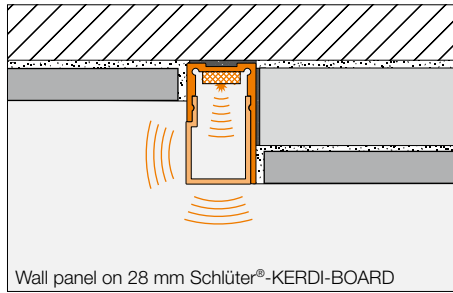
(Product data sheet 15.2)

Schlüter®-LIPROTEC-WSQ features a formed cover finish with timelessly modern Schlüter® QUADEC design.

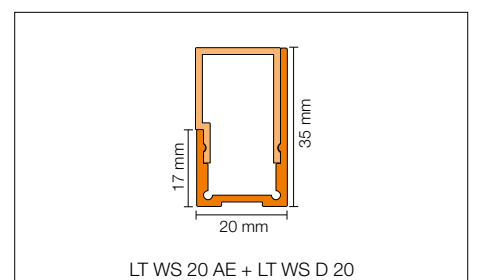
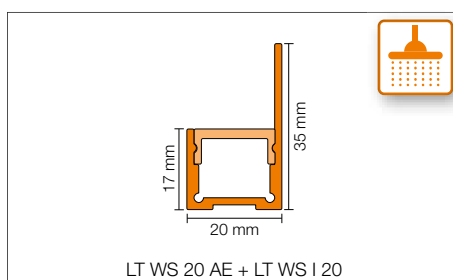
Both profiles are constructed so that fitted diffuser panels and light sources can also be replaced in assembled condition.

(Product data sheet 15.2)

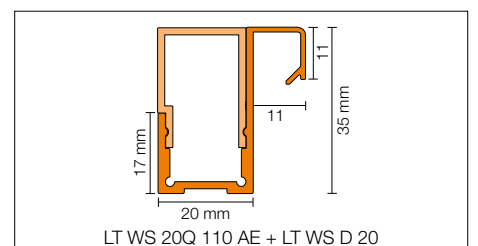
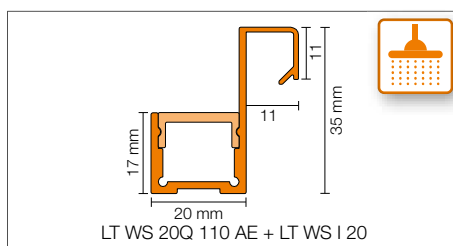
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To achieve adhesive bonding between the smooth aluminium surface and the tile, the self-adhesive fleece Schlüter®-DESIGNBASE-HVL 38/20M is fitted (see page 55).



Schlüter®-LIPROTEC-WS			
anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT WS 20 AE	18.85	60
1.5	LT WS 20 AE/150	18.85	60
1	LT WS 20 AE/100	18.85	60



Schlüter®-LIPROTEC-WSQ			
anodised aluminium, H = 11 mm			
L = m	Art.-No.	£ / m	KV = Unit
2.5	WS 20Q 110 AE	25.71	60

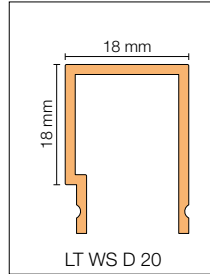
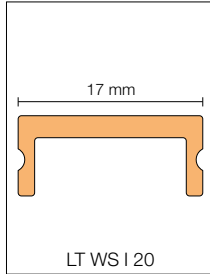


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More about diffusion panels and end caps on the next page.

Schlüter®-LIPROTEC-WS/EK			
end cap anodised aluminium, direct illumination			
H = mm	Art.-No.	£ / U.	P = Unit
35	EK / LT WS D AE 20	12.34	50
end cap anodised aluminium, indirect illumination			
17	EK / LT WS I AE 20	11.50	50



Schlüter®-LIPROTEC-WSI			
diffuser lens, indirect illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT WS I 20	14.69	60
1.5	LT WS I 20/150	14.69	60
1	LT WS I 20/100	14.69	60



Schlüter®-LIPROTEC-WSD			
diffuser lens, direct illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT WS D 20	17.00	60
1.5	LT WS D 20/150	17.00	60
1	LT WS D 20/100	17.00	60



Note:

Schlüter®-LIPROTEC-WS/-WSQ can be equipped with the following LED strips:

- LT ES 1 – warm white 3300 K
- LT ES 2 – neutral white 4500 K
- LT ES 9 – RGB+W controllable

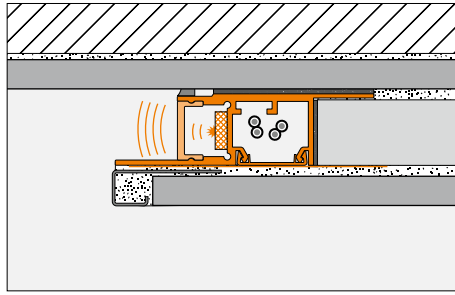
See page 44/45 for LED strips.



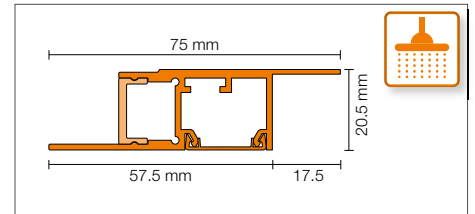
Schlüter®-LIPROTEC-WSK

Schlüter®-LIPROTEC-WSK is a high quality, anodised aluminium support 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 diffusion panels. 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 19 mm-thick Schlüter®-KERDI-BOARD aid the installation process.

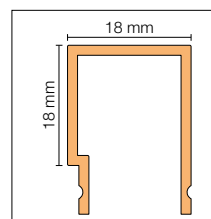
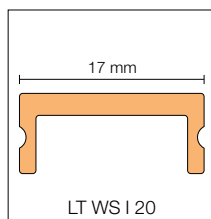
(Product data sheet 15.2)



Schlüter®-LIPROTEC-WSK			
anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	WS 20 K1 AAE	30.26	60



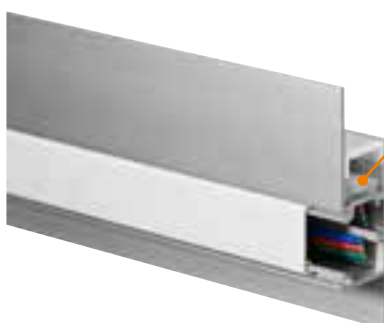
Schlüter®-LIPROTEC-WSI			
diffuser lens, indirect illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT WS I 20	14.69	60



Schlüter®-LIPROTEC-WSD			
diffuser lens, direct illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT WS D 20	17.00	60



To achieve adhesive bonding between the smooth aluminium surface and the tile, the self-adhesive fleece Schlüter®-DESIGNBASE-HVL 75/20M is fitted (see page 55).



Note:

Schlüter®-LIPROTEC-WSK can be equipped with the following LED strips:
 LT ES 1 – warm white 3300 K
 LT ES 2 – neutral white 4500 K
 LT ES 9 – RGB+W controllable

See page 44/45 for LED strips.

Light from within the tile!

Schlüter®-LIPROTEC-VB not only is an elegant finishing profile made of aluminium for tile coverings, it also allows for integration of decorative accents in the tile covering, for example with indirect lighting against the ceiling, or as an illuminated guiding strip on the skirting tiles. The profile is available in four different heights. Due to the installation height of just 3.5 mm, the sideview LED strips specifically designed for Schlüter-Systems are suitable for particularly uniform detailed arrangements and lighting effects.



Application areas:

Direct and/or indirect illumination of:

- ✓ Wall coverings
- ✓ Skirtings
- ✓ Special materials

Combinable with Schlüter®-LIPROTEC LED strips:

- ✓ warm white (3300 Kelvin)
Art.-No. LT ES 5
- ✓ neutral white (4500 Kelvin)
Art.-No. LT ES 6

Combinable with Schlüter®-LIPROTEC diffuser lenses:

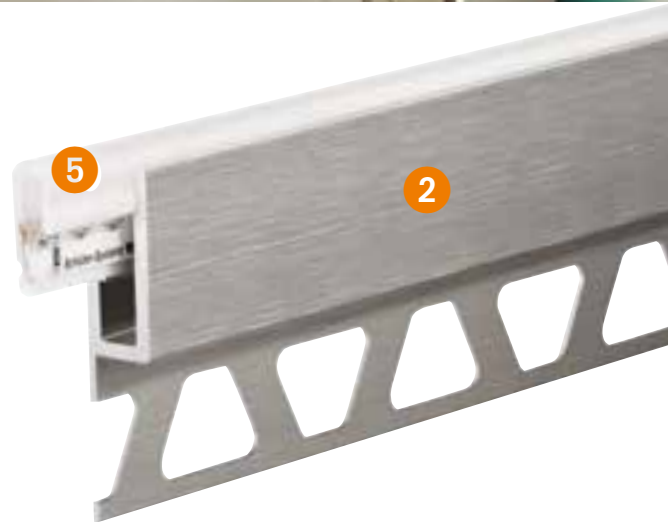
- ✓ for indirect light
Art.-No. LT VB I
- ✓ for indirect and direct light
Art.-No. LT VB D

Available to match four tile thicknesses:

- ✓ 8 mm
- ✓ 10 mm
- ✓ 11 mm
- ✓ 12.5 mm

The following accessories are available for the profile:

- ✓ Power supply
- ✓ Receiver
- ✓ Switch
- ✓ Installation material



- 1 Profile AE
- 2 Profile AEEB
- 3 LED strip
- 4 Diffuser lens (indirect light)
- 5 Diffuser lens (indirect and direct light)



Ordering examples

1 Directly illuminated wall panel 140 x 250 cm, warm white 3300 K

- 2 x profiles LT VB ... AE*
- 2 x diffuser lenses LT VB D
- 2 x LED strips LT ES 5
- 1 x power supply LT EK 24V 75W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



3 Indirect illumination from tile to wall and floor, 2 x 180 cm, neutral white 4500 K

- 2 x profiles LT VB ... AE*
- 2 x diffuser lenses LT VB I
- 2 x LED strips LT ES 6/200
- 1 x power supply LT EK 24V 50W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



2 Indirect tub skirting lighting in aluminium brushed anodised stainless steel, 200 x 70 cm, warm white 3300 K

- 3 x profiles LT VB ... AEEB*
- 3 x diffuser lenses LT VB I
- 2 x LED strips LT ES 5/200
- 1 x LED strip LT ES 5/100
- 1 x power supply LT EK 24V 75W
- 1 x receiver LT ER 1
- 1 x 1 channel switch, glass or stainless steel cover, LT E1 KS...**
- Installation material according to building situation



4 Directly illuminated wall panel 2 x 250 cm, warm white 3300 K

- 2 x profiles LT VB ... AE*
- 2 x diffuser lenses LT VB D
- 2 x LED strips LT ES 5
- 1 x power supply LT EK 24V 75W
- 1 x receiver LT ER 1
- 1 x 1 channel switch, glass or stainless steel cover, LT E1 KS...**
- Installation material according to building situation



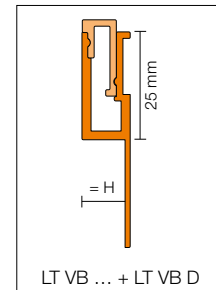
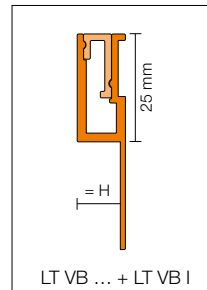
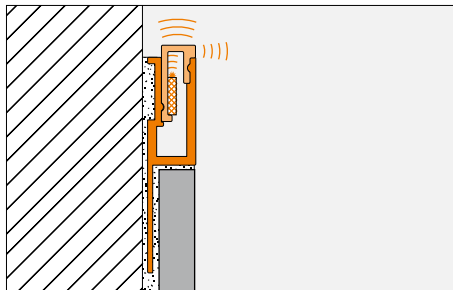
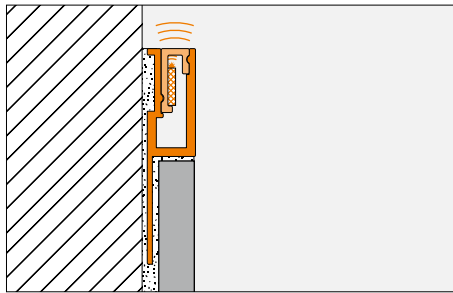
* Select profile type depending on tile thickness 80 – 100 – 110 – 125 (e.g. LT VB 100 AE)

** Add code for the finish of the switch cover: BW – EB (e.g. LT E1 KS EB)

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 the attachment of 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. As an alternative, a 3 mm light strip can create direct light. The profile design allows for the easy replacement of the utilised diffuser lenses and bulbs, including after installation.

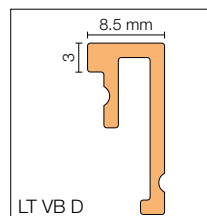
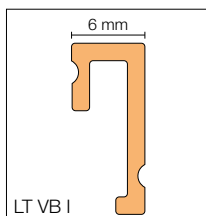
(Product data sheet 15.1)



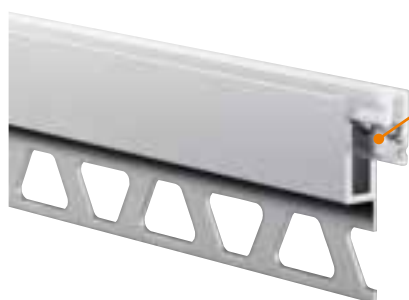
Schlüter®-LIPROTEC-VB			
anodised aluminium			
H = mm	L = 2.50 m Art.-No.	£ / m	KV = Unit
8	LT VB 80 AE	18.85	60
10	LT VB 100 AE	19.54	60
11	LT VB 110 AE	20.08	60
12.5	LT VB 125 AE	20.82	60

Schlüter®-LIPROTEC-VB-AEEB			
brushed stainless steel effect anodised aluminium			
H = mm	L = 2.50 m Art.-No.	£ / m	KV = Unit
8	LT VB 80 AEEB	22.52	60
10	LT VB 100 AEEB	23.23	60
11	LT VB 110 AEEB	23.86	60
12.5	LT VB 125 AEEB	24.92	60

Schlüter®-LIPROTEC-VBI			
diffuser lens, indirect illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT VB I	14.44	60



Schlüter®-LIPROTEC-VBD			
diffuser lens, indirect and direct illumination			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT VB D	14.44	60



Note:

Schlüter®-LIPROTEC-VB can be equipped with the following LED strips:

LT ES 5 – warm white 3300 K, lateral radiation

LT ES 6 – neutral white 4500 K, lateral radiation

See page 44/45 for LED strips.

Properly framed!

Schlüter®-LIPROTEC-D makes it easy to put design elements of the wall into their own unique frames. Schlüter®-LIPROTEC-D offers solutions that are as individual and flexible as you when it comes to highlighting decorative elements, borders, pictures or mirrors, creating a simple shadow joint, or setting accents with indirect light.



Application areas:

Indirect illumination of:

- ✓ Mirrors
- ✓ Borders
- ✓ Decorative elements made from a wide range of materials

Schlüter®-LIPROTEC-D may also be installed without lighting for elegant frames with shadow joints.

Combinable with Schlüter®-LIPROTEC LED strips:

- ✓ warm white (3300 Kelvin)
Art.-No. LT ES 5
- ✓ neutral white (4500 Kelvin)
Art.-No. LT ES 6

The following accessories are available for the profile:

- ✓ Power supply
- ✓ Receiver
- ✓ Switch
- ✓ Installation material

Available to match four heights*:

- ✓ 4.5 mm / 8.0 mm
- ✓ 7.5 mm / 11.0 mm
- ✓ 9.0 mm / 12.5 mm
- ✓ 16.5 mm / 20.0 mm

* Height of decorative material / tile



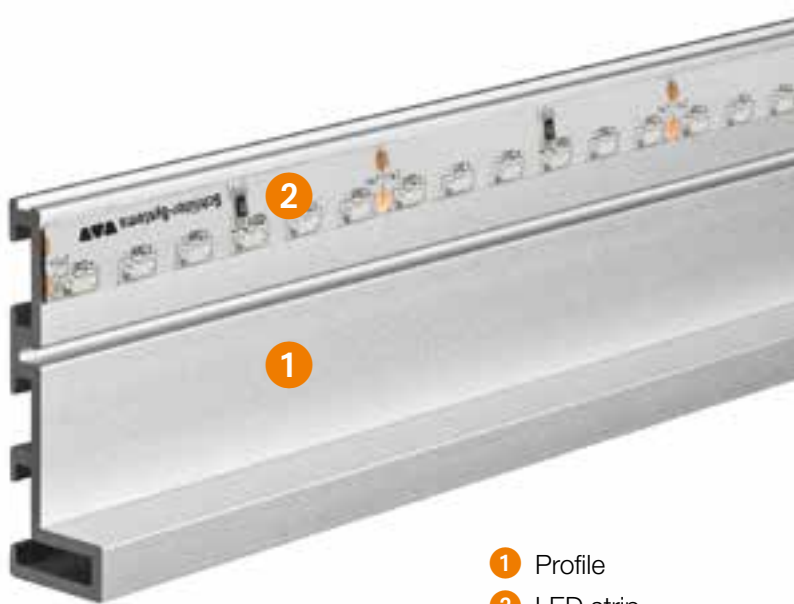
If it should be really simple: we've put together a frame set for you with dimensions of 118.5 x 93.5 cm, with clean mitre cuts and with power supply unit, LED strips and mounting material. You then only need a suitable mirror or decorative element.



Sample installation, illuminated



Sample installation, non-illuminated



- 1 Profile
- 2 LED strip



Ordering examples

1 Flush decorative element, indirect lateral lighting 2 x 250 cm, warm white 3300 K

- 2 x profiles LT D ... AE*
- 2 x LED strips LT ES 5
- 1 x power supply LT EK 24V 75W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



3 Flush decorative element, indirect lateral lighting 2 x 700 cm, neutral white 4500 K

- 6 x profiles LT D ... AE*
- 4 x LED strips LT ES 6
- 2 x LED strips LT ES 6/200
- 1 x power supply LT EK 24V 150W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



2 Flush mirror framing with indirect lighting, 50 x 140 cm, neutral white 4500 K

- 2 x profiles LT D ... AE*
- 2 x corner connector sets V 90 LT 10/4
- 2 x LED strips LT ES 6/150
- 2 x LED strips LT ES 6/50
- 1 x power supply LT EK 24V 50W
- 1 x receiver LT ER 1
- 1 x 1 channel switch, glass or stainless steel cover, LT E1 KS...**
- Installation material according to building situation



4 Decorative frame for indirect edge lighting of a mirror, 118.5 x 93.5 cm, neutral white 4500 K, LT D90 S2 complete set (See p. 36/37 for contents)

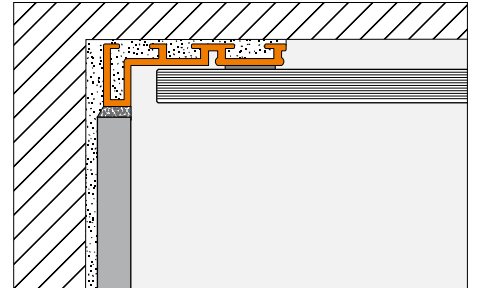
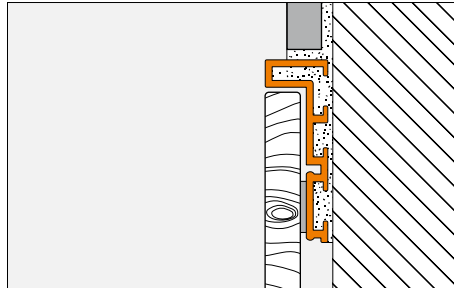
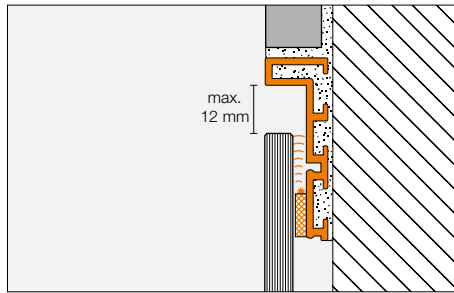
* Select profile type in accordance with the thickness of the decorative material (add 5 mm for the LED strip if applicable) 45 – 75 – 90 – 165 (e.g. LT D 165 AE)

** Add code for the finish of the switch cover: BW – EB (e.g. LT E1 KS EB)

Schlüter®-LIPROTEC-D

Schlüter®-LIPROTEC-D is a decorative insertion 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. Schlüter®-LIPROTEC-D is suitable for the attachment of 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, including after installation.

(Product data sheet 15.3)



i

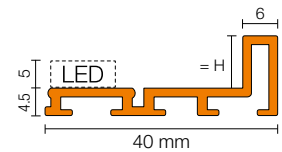
Selection of profile height:

5 mm must be added for the height of the LED strip LT ES 5 or LT ES 6. The profile LT D 45 AE with an intake height of 4.5 mm is recommended for the insertion of non-illuminated decorative materials.

Schlüter®-LIPROTEC-D

anodised aluminium

H = mm	L = 2.50 m Art.-No.	£ / m	KV = Unit
4.5	LT D 45 AE	20.51	60
7.5	LT D 75 AE	20.71	60
9	LT D 90 AE	22.46	60
16.5	LT D 165 AE	23.15	60



LT D ... AE

i

2 x corner connectors are required for each frame corner.

Schlüter®-LIPROTEC-D/V

corner connector set, 4 pc.

Art.-No.	£ / Set	P = Set
V 90 / LT 10/4	4.85	50



Note:

Schlüter®-LIPROTEC-D can be equipped with the following LED strips:
 LT ES 5 – warm white 3300 K, lateral radiation
 LT ES 6 – neutral white 4500 K, lateral radiation

See page 44/45 for LED strips.

Defined by light!

Timeless QUADEC design combined with modern LED technology: With Schlüter®-**DESIGNBASE-QD**, installing illuminated skirtings and borders with ease. Create illuminated finishes for worktops or wall structures made of stud frame constructions or Schlüter®-KERDI-BOARD in next to no time!



Application areas:

Direct illumination of:

- ✓ Skirtings
- ✓ Worktops
- ✓ Dividing walls
- ✓ Illuminated borders in wall coverings

Combinable with Schlüter®-LIPROTEC diffuser lenses:

- ✓ for direct light
Art.-No. LT FSS 39

The following accessories are available for the profile:

- ✓ Power supply
- ✓ Receiver
- ✓ Switch
- ✓ Installation material

Combinable with Schlüter®-LIPROTEC LED strips:

- ✓ warm white (3300 Kelvin)
Art.-No. LT ES 3
- ✓ neutral white (4500 Kelvin)
Art.-No. LT ES 4





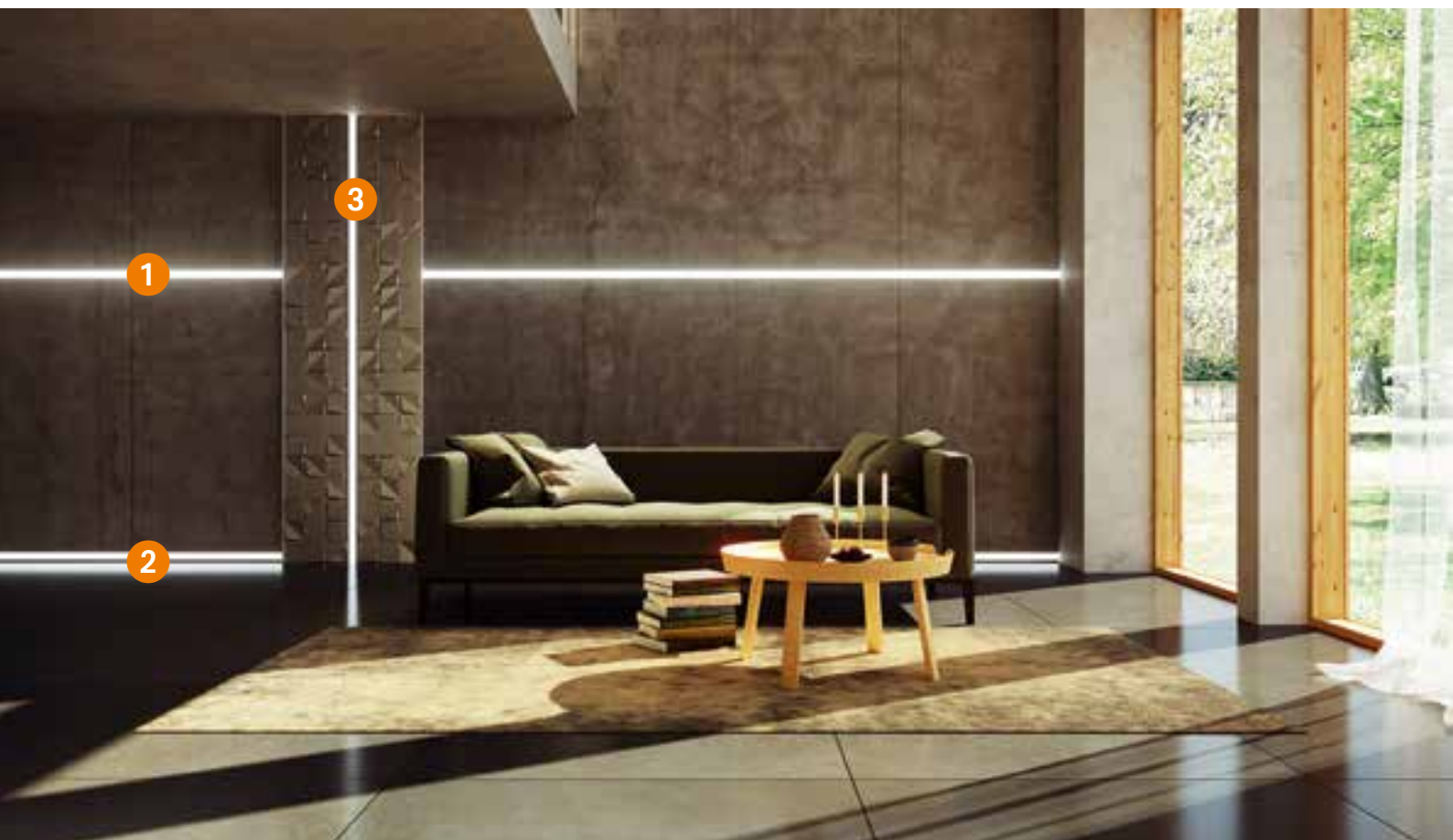
Sample installation, illuminated



Sample installation, non-illuminated



- 1 Profile AE
- 2 Profile AEEB
- 3 LED strip
- 4 Diffuser lens (direct light)



Ordering examples

1 Illuminated design border, 180 cm, warm white 3300 K

- 1 x profile DB Q1 AE
- 1 x diffuser lens LT FSS 39
- 1 x LED strip LT ES 3/200
- 1 x power supply LT EK 24V 30W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



3 Illuminated design element, full wall height, in aluminium brushed anodised stainless steel, 250 cm, warm white 3300 K

- 1 x profile DB Q1 AEEB
- 1 x diffuser lens LT FSS 39
- 1 x LED strips LT ES 3
- 1 x power supply LT EK 24V 30W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



2 Illuminated base board, 180 cm, neutral white 4500 K

- 1 x profile DB Q1 AE
- 1 x diffuser lens LT FSS 39
- 1 x LED strip LT ES 4/200
- 1 x power supply LT EK 24V 30W
- 1 x receiver LT ER 1
- 1 x 1 channel switch, glass or stainless steel cover, LT E1 KS...**
- Installation material according to building situation

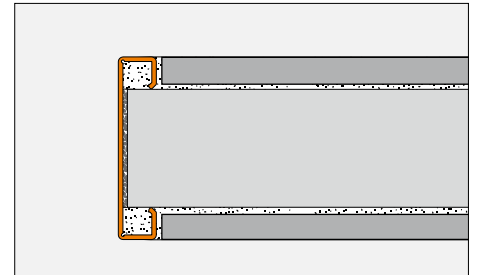
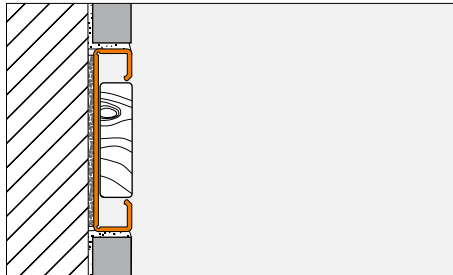
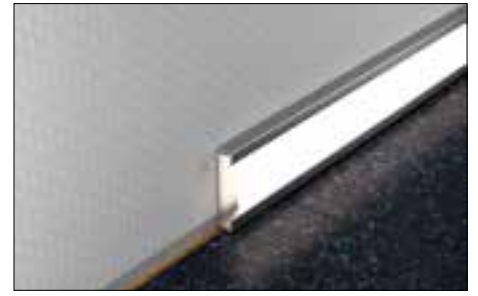
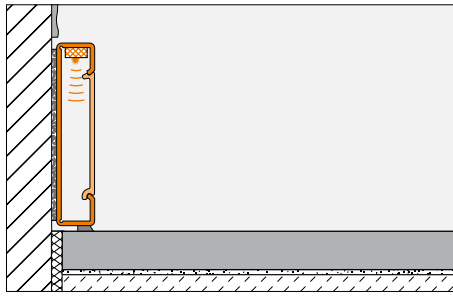


** Add code for the finish of the switch cover: BW – EB (e.g. LT E1 KS EB)

Schlüter®-DESIGNBASE-QD

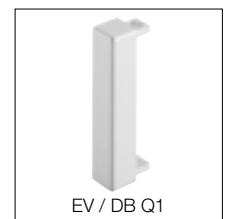
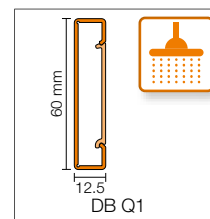
Schlüter®-DESIGNBASE-QD is a high quality profile of anodised aluminium for versatile applications. It is designed to attach various Schlüter®-LIPROTEC-ES LED strips as a skirting or border profile in wall areas. A 39 mm diffuser lens is then used between the approx. 10 mm wide visible areas of the profile 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, including after installation.

(Product data sheet 16.1)



Schlüter®-DESIGNBASE-QD			
anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	DB Q1 AE	24.67	60

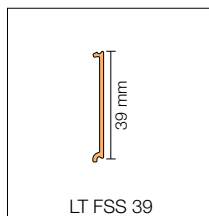
Schlüter®-DESIGNBASE-QD-AEEB			
brushed stainless steel effect anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	DB Q1 AEEB	29.81	60



Schlüter®-DESIGNBASE-QD/E		
90° external corner anodised aluminium		
Art.-No.	£ / U.	P = Unit
EV / DB Q1 AE	21.78	50

Schlüter®-DESIGNBASE-QD-AEEB/E		
external corner, brushed stainless steel anodised aluminium		
Art.-No.	£ / U.	P = Unit
EV / DB Q1 AEEB	26.27	50

Schlüter®-DESIGNBASE-QDD			
diffuser lens, direct illumination			
H = mm	L = 2.50 m Art.-No.	£ / m	KV = Unit
39	LT FSS 39	15.18	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 55).

Schlüter®-LIPROTEC-RKB

Schlüter®-LIPROTEC-RKB is a self-adhesive, reflective tape that is adhered over fixings or cables to prevent a disruption of the light effect.

Schlüter®-LIPROTEC-RKB			
self-adhesive reflector tape			
B = mm	L = 50 m Art.-No.	£ / U.	P = Unit
38	LT Z RKB 38 50M	4.90	10



Note:

Schlüter®-DESIGNBASE-QD can be equipped with the following LED strips:

- LT ES 3 – warm white 3300 K, narrow
- LT ES 4 – neutral white 4500 K, narrow

See page 44/45 for LED strips.

A real multi-talent!

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



Application areas:

Direct illumination of:

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

Combinable with Schlüter®-LIPROTEC diffuser lenses:

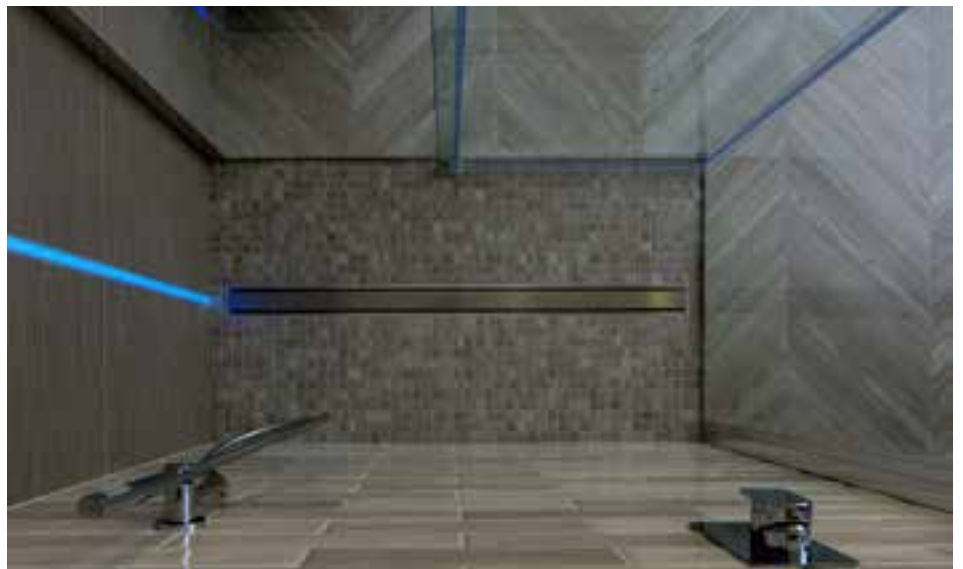
- ✓ Art.-No. LT WS 1 20

The following accessories are available for the profile:

- ✓ Power supply
- ✓ Receiver
- ✓ Switch
- ✓ Installation material

Combinable with Schlüter®-LIPROTEC LED strips:

- ✓ warm white (3300 Kelvin)
Art.-No. LT ES 1
- ✓ neutral white (4500 Kelvin)
Art.-No. LT ES 2
- ✓ RGB+W (multi-colour and white light)
Art.-No. LT ES 9





Sample installation, illuminated



Sample installation, non-illuminated



- 1 Profile
- 2 LED strip
- 3 Diffuser lens



Ordering examples

1 Illuminated border, room length 120 cm and 250 cm, multi-colour/white illuminated

- 3 x profiles LT LL 2017 AE
- 3 x diffuser lenses LT WS I 20
- 2 x LED strips LT ES 9
- 2 x LED strips LT ES 9/150
- 1 x power supply LT EK 24V 150W
- 1 x Bluetooth receiver LT EBR 4
- Installation material according to building situation



2 Illuminated niche, length 140 cm, neutral white 4500 K

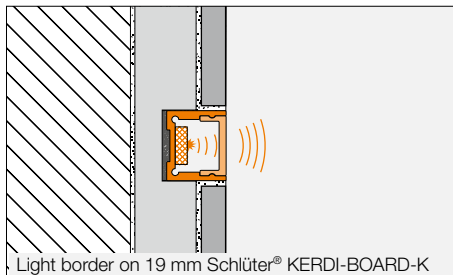
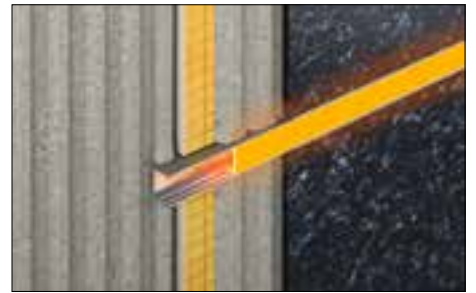
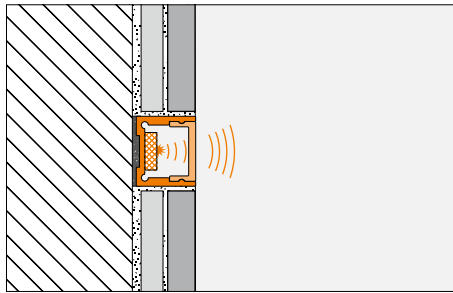
- 1 x profile LT LL 2017 AE
- 1 x diffuser lens LT WS I 20
- 1 x LED strip LT ES 2/150
- 1 x power supply LT EK 24V 30W
- 1 x Bluetooth receiver LT EBR 1
- Installation material according to building situation



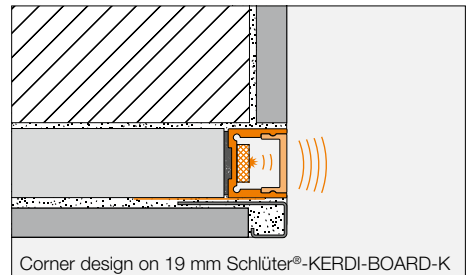
Schlüter®-LIPROTEC-LL

Schlüter® LIPROTEC-LL is a high quality, anodised aluminium channel profile for creating accent lighting in wall coverings, niche or shelving constructions and elements. Schlüter®-LIPROTEC-ES LED strips laid into the U-shaped profile are for lighting in combination with the corresponding diffusion panel. Various direct or indirect light effects are created according to the positioning of the profile.

(Product data sheet 15.5)

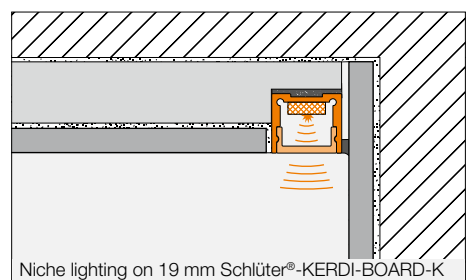
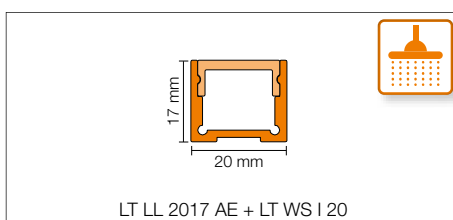


Light border on 19 mm Schlüter® KERDI-BOARD-K



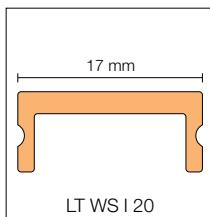
Corner design on 19 mm Schlüter®-KERDI-BOARD-K

Schlüter®-LIPROTEC-LL			
anodised aluminium			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT LL 2017 AE	17.63	60



Niche lighting on 19 mm Schlüter®-KERDI-BOARD-K

Schlüter®-LIPROTEC-WSI			
diffuser lens			
L = m	Art.-No.	£ / m	KV = Unit
2.5	LT WS I 20	14.69	60



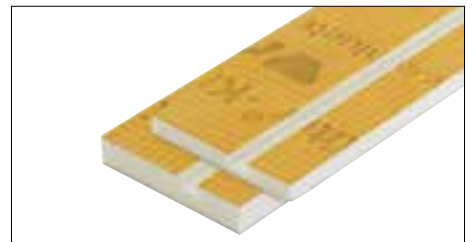
Schlüter®-LIPROTEC-WS/EK			
end cap anodised aluminium, indirect illumination			
H = mm	Art.-No.	£ / U.	P = Unit
17	EK / LT WS I AE 20	11.50	50

Schlüter®-KERDI-BOARD-K

Schlüter®-KERDI-BOARD-K are installation modules with pre-cut grooves for accommodating Schlüter®-LIPROTEC cable ducts. The groove is designed to also accommodate a 19 mm-thick Schlüter®-KERDI-BOARD profile 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	14.13	10
28	KB 28 150 2500 K1	16.79	10



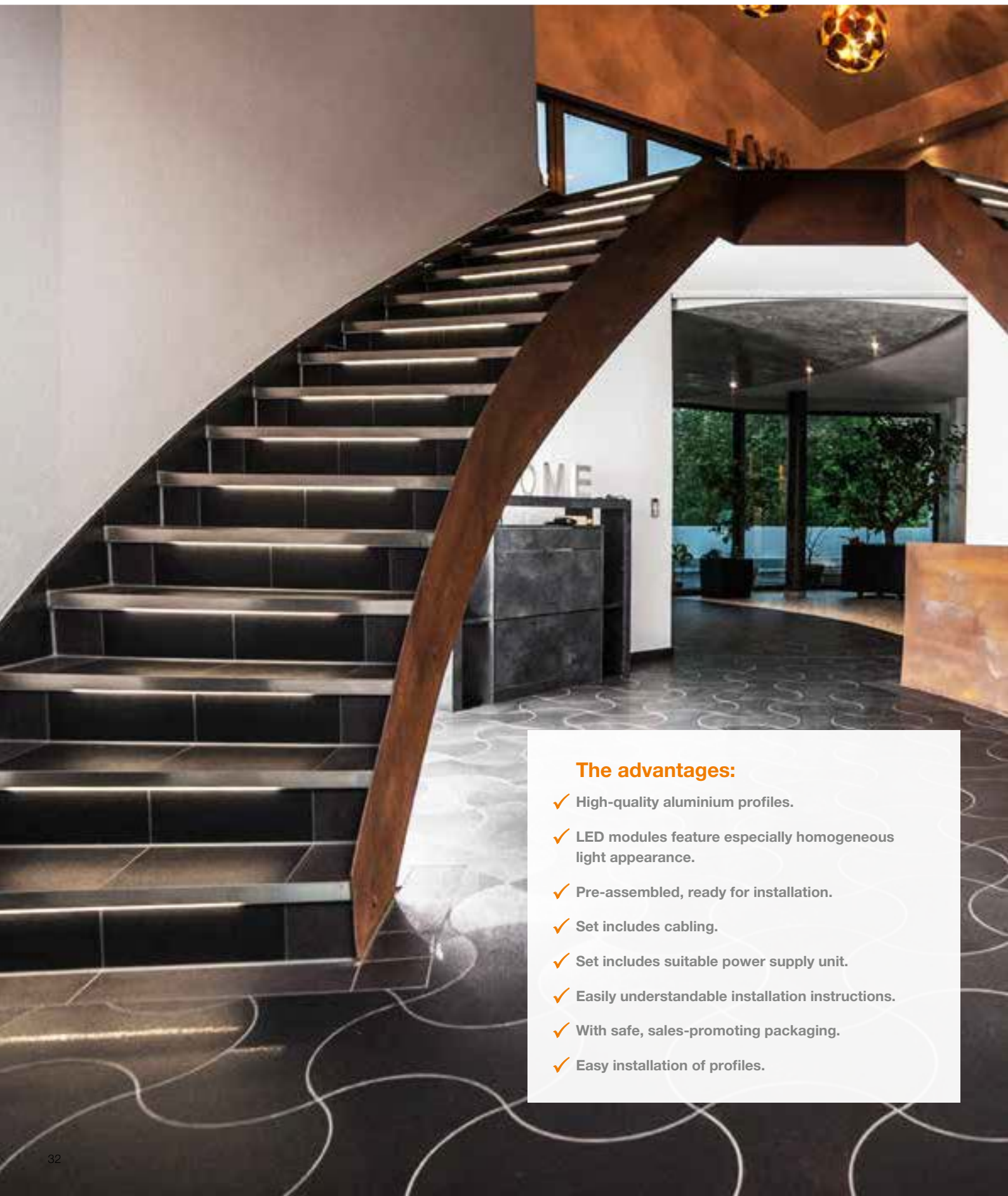
Note:

Schlüter®-LIPROTEC-LL can be equipped with the following LED strips:
 LT ES 1 – warm white 3300 K
 LT ES 2 – neutral white 4500 K
 LT ES 9 – RGB+W controllable

See page 44/45 for LED strips.

Put together for you – lighting profile technology in a set

With a wide range of sets, Schlüter-Systems helps to achieve impressive LED installations with ceramics and without major headaches. Whether for single podium edges, stairways with 15 stairs, illuminated decorative frames or wall panels in any variation – we definitely have the right set for your lighting idea. Let the overview on pages 38/39 help you, and see the detailed information on the following pages. All sets can also be supplemented with transmitters and receivers from the Schlüter®-LIPROTEC range if needed.





The advantages:

- ✓ High-quality aluminium profiles.
- ✓ LED modules feature especially homogeneous light appearance.
- ✓ Pre-assembled, ready for installation.
- ✓ Set includes cabling.
- ✓ Set includes suitable power supply unit.
- ✓ Easily understandable installation instructions.
- ✓ With safe, sales-promoting packaging.
- ✓ Easy installation of profiles.



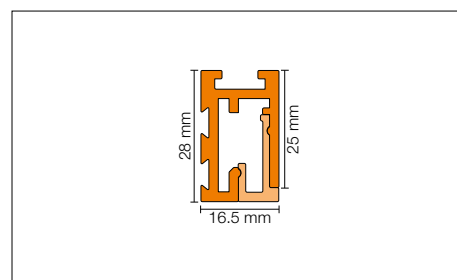
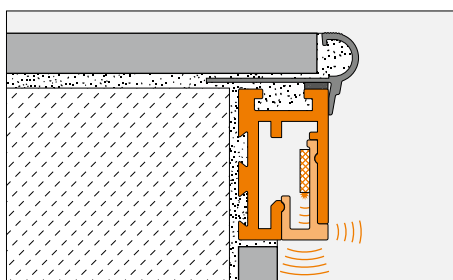
Overview of Schlüter®-LIPROTEC sets

Sets for stairways.....	34
Complete set for 15 stairs	100 cm wide, neutral white 150 cm wide, neutral white
Combination set for single stair	100 cm wide, neutral white 150 cm wide, neutral white
Sets for decorative frames	36
Set for decorative frame	118.5 x 93.5 cm, warm white 118.5 x 93.5 cm, neutral white
Combination sets for wall panels	40
Combine a profile set with an accessory set in the desired width and light colour	
Wall panel, 2-sided LED	Profile set with 2 profiles 250 cm each Accessory set, narrow (70 cm), RGB+W Accessory set, wide (128.5 cm), RGB+W
Controls for complete sets.....	49
LED Bluetooth control	white multi-colour + white 
LED radio control	white 

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 The LED strips assembled in the sets comply with energy efficiency class A+ to A.
 See page 56 for detailed information about the energy efficiency classes of our products.

Staircase sets

Schlüter®-LIPROTEC-PB 15 are complete sets for staircases with centrally mounted LED modules with a width of 60 cm. Diffusion panels provide indirect light distribution and are visible from the front as discrete light lines. The aluminium support profiles/diffusion panels with lengths of 100/150 cm can be cut to suit. LED modules have a neutral white colour temperature of 4500 Kelvin. Cabling is via a simple coupling system, and the set includes a 500 cm connection cable and Schlüter®-LIPROTEC-EK power supply unit (24 V, 75 W).



Schlüter®-LIPROTEC-PB 15

Complete set, illuminated staircase

(for 15-step stair lighting to a width of 100/150 cm)

Contents:

- 15 x profiles LT PB a 100/150 cm incl. locking plate, cable through-wiring, 15 end caps
- 15 x diffusion panels LT PB D a 100/150 cm incl. LED module, neutral white 4500 Kelvin, coupling system
- 14 x connection cables a 70 cm, plug/plug system, 2 x 0.32 mm² (AWG22)
- 1 x supply cable 500 cm, single-sided plug system, 2 x 0.32 mm² (AWG22)
- 1 x power supply unit, 24 volts, 75 watts, input voltage 230 V, AC
- 1 x installation/mounting instruction

Complete set LT PB 15

complete set for staircases, anodised aluminium

Art.-No.	£ / Set	P = Set
PB 15 S1 AE/100	1670.63	10
PB 15 S1 AE/150	1815.91	10

Complete set LT PB 15

complete set for staircases, brushed stainless steel effect anodised aluminium

Art.-No.	£ / Set	P = Set
PB 15 S1 AE EB/100	1743.63	10
PB 15 S1 AE EB/150	1928.42	10

Note!

Use only with indoor applications!
The set is designed for straight staircases.

Schlüter®-LIPROTEC-PB 1 are combination sets, each for one step, each consisting of one 100/150 cm Schlüter®-LIPROTEC-PB aluminium support profile with pre-assembled 60 cm-wide LED module (4500 Kelvin, neutral white), one diffusion panel, and one 70 cm connection cable with plug connection. The combination set can be used for expanding the Schlüter®-LIPROTEC-PB 15 to up to 18 steps, and with only one supply cable. The combination set can also be installed in individual staircases with few steps using a power supply unit and cable.



Schlüter®-LIPROTEC-PB 1

Combination set, illuminated staircase
(for stair lighting to a width of 100/150 cm)

Contents:

- 1 x LT PB profile a 100/150 cm incl. locking plate, cable through-wiring, end cap
- 1 x diffusion panel LT PB D a 100/150 cm incl. LED module, neutral white 4500 Kelvin, coupling system
- 1 x connection cable 70 cm, plug/plug system, 2 x 0.32 mm² (AWG22)
- 1 x installation/mounting instruction

Technical specifications for one illuminated stair profile: (LED module specifications in uninstalled state)

Input voltage:	24 V, DC
Consumption/module:	3.7 W
IP Code:	IP20
No. of LEDs/module:	72
Colour temperature:	4500 K (neutral white)
Illumination length:	central (60 cm)
Ambient temperature:	-20 °C to +40 °C

Combination set LT PB 1

combination set for one step
anodised aluminium

Art.-No.	£ / Set	P = Set
PB S1 AE/100	131.23	10
PB S1 AE/150	140.91	10

Combination set LT PB 1

combination set for one step brushed
stainless steel effect anodised aluminium

Art.-No.	£ / Set	P = Set
PB S1 AEEB/100	137.40	10
PB S1 AEEB/150	147.83	10

Note!

Use only with indoor applications!
The set is designed for straight staircases.
Stair profiles must be ordered separately in accordance with surface material!
We recommend our LED control for variable light control (page 50/51).

Schlüter®-LIPROTEC-ZZK

Schlüter®-LIPROTEC-ZZK is a supply cable (2 x 0.32 mm², AWG22) with a length of 500 cm for connecting the Schlüter®-LIPROTEC-PB staircase systems to the voltage supply.

Schlüter®-LIPROTEC-ZZK

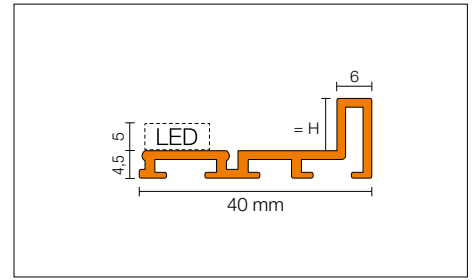
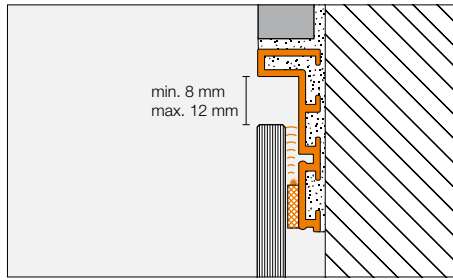
supply cable

Art.-No.	£ / U.	P = Unit
LT ZZK 2A 5M	9.65	10



Decorative frame sets

Schlüter®-LIPROTEC-D 90 are complete sets for creating frameworks with elegant, indirect LED illumination. The Schlüter®-LIPROTEC-D support profiles are mitre-cut for a frame format of 118.5 x 93.5 cm. Four suitable Schlüter®-LIPROTEC-ES LED strips with a light temperature of 3300 Kelvin (warm white) or 4500 Kelvin (neutral white) are included in the set, as well as complete material for mounting a mirror/ decorative element, including cabling and one LT EK 24V 50W power supply unit.



Schlüter®-LIPROTEC-D 90 S1

Complete set for decorative frame* with indirect lighting

(for accommodating mirrors or decorative elements with a thickness of up to 6 mm)

Contents:

- 1 x Schlüter®-LIPROTEC-D 90 profile frame, 118.5 cm x 93.5 cm
incl. mitre cuts and milled edges for decorative material support
incl. Schlüter®-LIPROTEC-D/V corner connectors
- 2 x LED strips, Schlüter®-LIPROTEC-ES, length: 110 cm, warm white 3300 Kelvin
- 2 x LED strips, Schlüter®-LIPROTEC-ES, length: 85 cm, warm white 3300 Kelvin
- 1 x set of decorative material supports, above/below (4 pcs.)
- 1 x set of mirror plates, above/below (4 pcs.)
- 1 x Schlüter®-LIPROTEC-ZS connection set
- 1 x empty tube, 200 cm, 20 mm diameter
- 1 x power supply unit, 24 volts, 50 watts, input voltage 230 V, AC
- 1 x installation/mounting instruction
- 1 x installation tool/mounting aid

* Mirror/decorative element not included in scope of supply

Complete set LT D 90 S1			
complete set frame, warm white, 3300 K			
H = mm	Art.-No.	£ / Set	P = Set
9	LT D90 S1 AE	560.25	10

Schlüter®-LIPROTEC-D 90 S2

Complete set for decorative frame* with indirect lighting

(for accommodating mirrors or decorative elements with a thickness of up to 6 mm)

Contents:

- 1 x Schlüter®-LIPROTEC-D 90 profile frame, 118.5 cm x 93.5 cm
incl. mitre cuts and milled edges for decorative material support
incl. Schlüter®-LIPROTEC-D/V corner connectors
- 2 x LED strips, Schlüter®-LIPROTEC-ES, length: 110 cm, neutral white 4500 Kelvin
- 2 x LED strips, Schlüter®-LIPROTEC-ES, length: 85 cm, neutral white 4500 Kelvin
- 1 x set of decorative material supports, above/below (4 pcs.)
- 1 x set of mirror plates, above/below (4 pcs.)
- 1 x Schlüter®-LIPROTEC-ZS connection set
- 1 x empty tube, 200 cm, 20 mm diameter
- 1 x power supply unit, 24 volts, 50 watts, input voltage 230 V, AC
- 1 x installation/mounting instruction
- 1 x installation tool/mounting aid

* Mirror/decorative element not included in scope of supply

Technical specifications for one illuminated decorative frame: (LED strip specifications in uninstalled state)

Input voltage:	24 V, DC
Consumption/set:	37.4 W
IP Code:	IP65
No. of LEDs/m:	120
Colour temperature:	3300 K (warm white) 4500 K (neutral white)
Ambient temperature:	-20 °C to +40 °C

Complete set LT D 90 S2

complete set frame, neutral white, 4500 K

H = mm	Art.-No.	£ / Set	P = Set
9	LT D90 S2 AE	560.25	10

i

Dimensions of decorative element

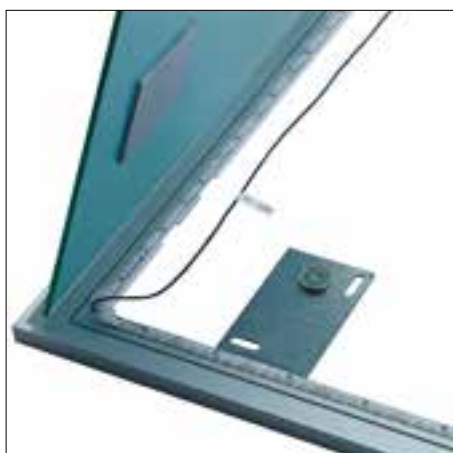
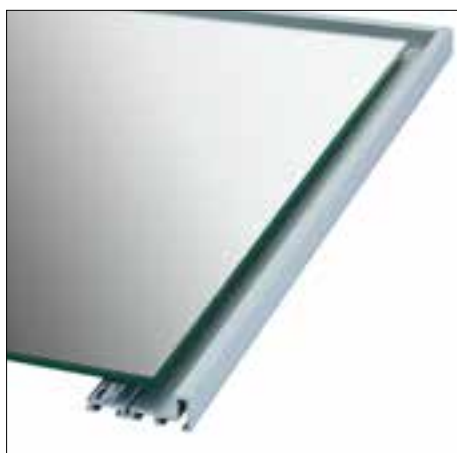
(e.g. mirror): 115.3 cm x 90.3 cm
(illuminated gap: 10 mm)

Weight of decorative element:

max. 16 kg

Note!

When fixing the decorative element (e.g. mirrors) please observe the information in the instructions. We recommend our LED control for variable light control (page 50/51).



That's how easy it is to show style!

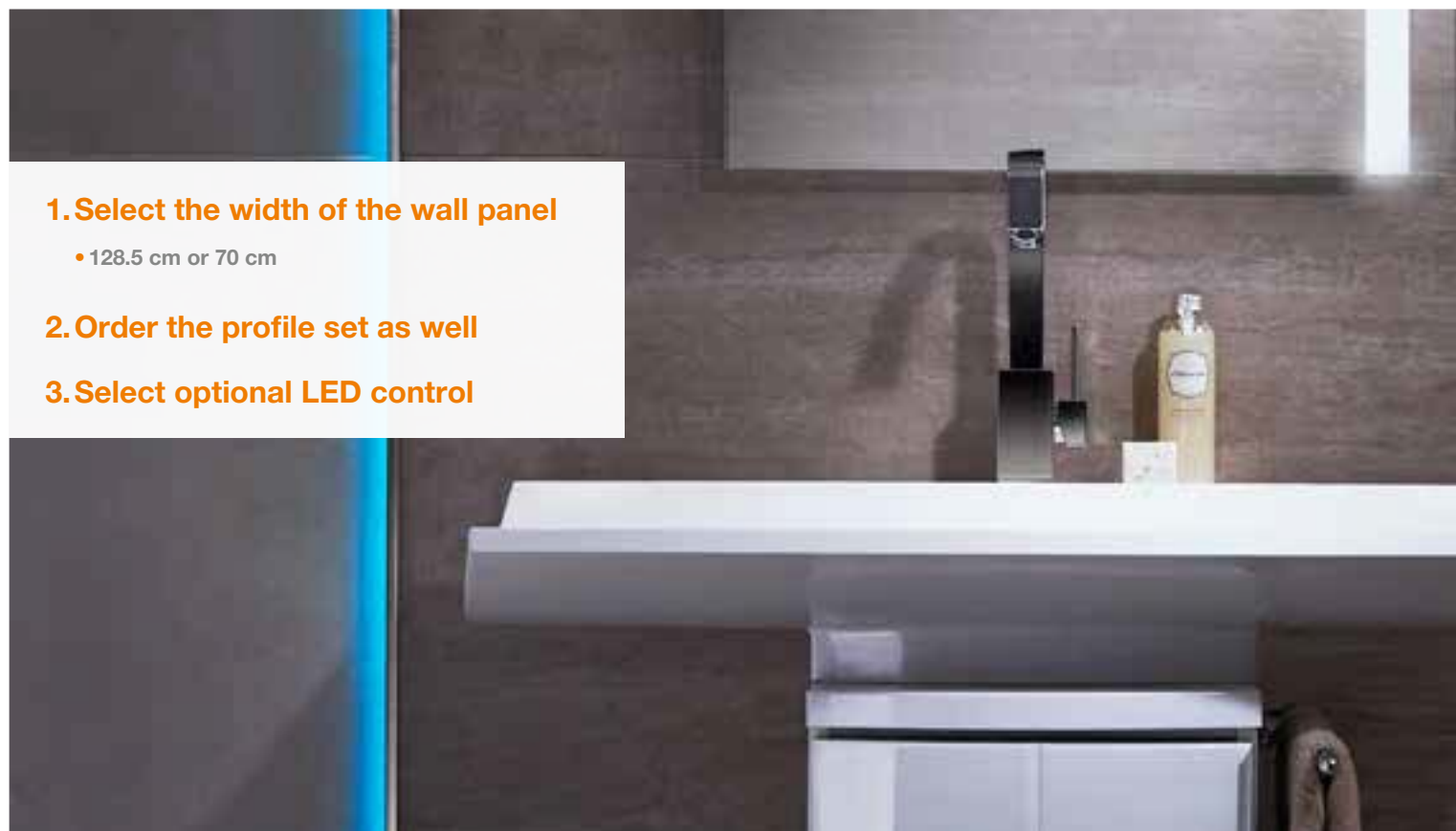
The new wall panel sets with RGB+W light – the easy way to create stylish designs. Simply select between the wide (128.5 cm) or narrow (70 cm) wall panel and order the practical profile set as well. You can now also combine a control via Bluetooth receiver if desired. The suitable app from Schlüter-Systems is available for free in the App Store or via Google Play.

1. Select the width of the wall panel

- 128.5 cm or 70 cm

2. Order the profile set as well

3. Select optional LED control



Profile set

WSK 2500 (length: 250 cm)



Art.-No. WS 20 K1 S2 AE

Wall panels/light type

WSK 700 (width = 70 cm)



Art.-No. WS 20 ZS2 LT ES9



Accessory set multi-colour + white RGB+W

WSK 1285 (width = 128.5 cm)



Art.-No. WS 20 ZS3 LT ES9



Accessory set multi-colour + white RGB+W

Wellness via Bluetooth

Which light colour do you like best? Would you like a colour contrast? Would you like to precisely copy the warm white tone of your ceiling lighting? Or perhaps simply relax with a pleasant green tone? Be your own lighting designer! Our RGB+W LED technology provides you with unlimited lighting design options. The Bluetooth control is as easy as child's play and helps you to identify and save your favourite colour tone via smartphone or tablet. More details on page 48.



Schlüter®-LIPROTEC-WSK 700



Schlüter®-LIPROTEC-WSK 1285



multi-colour + white RGB+W



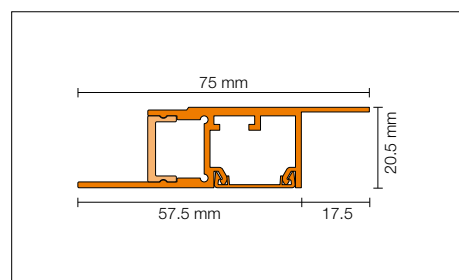
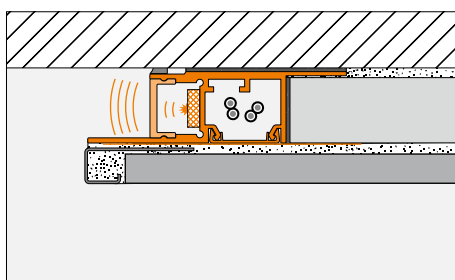
LED Bluetooth control

Bluetooth control (for RGB+W)

see page 51

Profile set for backlit wall panels

The Schlüter®-LIPROTEC-WSK 2500 profile set consists of high quality wall panel profiles with integrated cable duct and diffusion panel with indirect light distribution. The set enables installation of ceramic wall coverings or decorative materials (e.g. mirrors). Backlit wall panels are created in combination with our Schlüter®-LIPROTEC-WSK 700/1285 accessory sets.



Schlüter®-LIPROTEC-WSK 2500

Profile set for backlit wall panel, pre-assembled

(can be combined with the Schlüter®-LIPROTEC-WSK 700/1285 accessory sets)

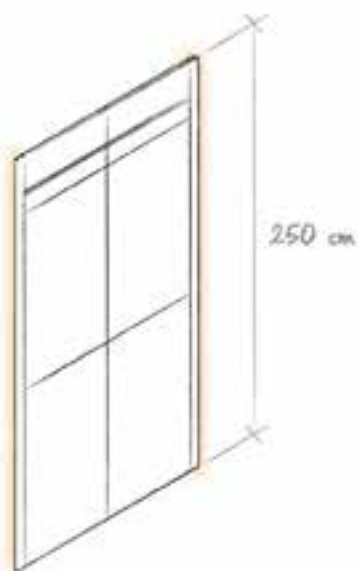
Contents:

- 2 x Schlüter®-LIPROTEC-WSK profiles, length 250 cm, with cutout for cable routing and integrated, covered cable duct, including Schlüter®-LIPROTEC-WSI diffusion panel

Schlüter®-LIPROTEC-WSK 2500

profile set for backlit wall panel

L = m	Art.-No.	£ / Set	P = Set
2.5	WS 20 K1 S2 AE	217.95	10



Technical values for WSK 700/1285 accessory set: (LED strip specifications in uninstalled state)

Light colour:	RGB+W
Input voltage:	24 V, DC
Consumption/set:	75 W
IP Code:	IP67
No. of LEDs/m:	192
Ambient temperature:	-20 °C to +40 °C

Accessory sets for backlit wall panels

The Schlüter®-LIPROTEC-WSK 700/1285 accessory sets, when combined with the Schlüter®-LIPROTEC-WSK 2500 profile set, enable appealing, illuminated wall panels to be assembled with ease. Included components such as the Schlüter®-KERDI-BOARD, the power supply unit, the RGB+W LED strips and connecting set enable rapid assembly of the backlit wall panel – the KERDI-BOARD tiling substrate is connected to the profile set simply by bonding and slotting in.



WSK 1285 accessory set

Schlüter®-LIPROTEC-WSK 700

Accessory set for backlit wall panel

(for combining with the Schlüter®-LIPROTEC-WSK 2500 profile set)

Contents:

- 2 x LED strips, Schlüter®-LIPROTEC-ES, length: 250 cm, light colour multi-colour + white (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 conduit 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 volts, 75 watts/100 watts, input voltage 230 V, AC
- 1 x Schlüter®-LIPROTEC-ZS 2A/5A (connection set)
- 1 x empty tube, 200 cm, 20 mm diameter
- 1 x installation/mounting instruction

Schlüter®-LIPROTEC-WSK 700 ▲		
accessory set with LED strips, RGB+W		
Art.-No.	£ / Set	P = Set
WS 20 ZS2 LT ES9	659.75	10

Schlüter®-LIPROTEC-WSK 1285

Accessory set for backlit wall panel

(for combining with the Schlüter®-LIPROTEC-WSK 2500 profile set)

Contents:

- 2 x LED strips, Schlüter®-LIPROTEC-ES, length: 250 cm, light colour multi-colour + white (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 conduits 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 volts, 75 watts/100 watts, input voltage 230 V, AC
- 1 x Schlüter®-LIPROTEC-ZS 2A/5A (connection set)
- 1 x empty tube, 200 cm, 20 mm diameter
- 1 x installation/mounting instruction

Schlüter®-LIPROTEC-WSK 1285 ▲		
accessory set with LED strips, RGB+W		
Art.-No.	£ / Set	P = Set
WS 20 ZS3 LT ES9	750.75	10

i
Find a suitable Bluetooth control on page 49.

Note:

See page 40 for technical specifications.

It's apparent: LEDs of the highest quality

Schlüter®-LIPROTEC-ES LED strips have it all. Our development focused on a unique and particularly close spacing of LEDs, which led to a vibrant, homogeneous, uniform light effect. At the same time, our LEDs are fully coated to make them especially sturdy and suitable for use in moist environments. Schlüter®-LIPROTEC LED strips are IP65/IP67 certified and suitable for use in moisture sensitive rooms.

- ✓ Innovative: RGB+W technology
- ✓ Warm white 3300 K
- ✓ Neutral white 4500 K
- ✓ 16 million colours
- ✓ Colour temperature adjustable from 2500 K to 6500 K
- ✓ HighTec: 120–192 LED/m
- ✓ Brilliance: Colour rendering value CRI > 85
- ✓ Versatile: can be combined with many light profiles
- ✓ Suitable for areas exposed to moisture, e.g. bathrooms, shower rooms
- ✓ Can be shortened

RGB

Schlüter®-LIPROTEC-ES

Schlüter®-LIPROTEC-ES are high performance LEDs that were specifically developed for use in Schlüter®-LIPROTEC illumination profiles. Depending on the profiles to be used, the LED strips differ in width and the direction of light radiation. Schlüter®-LIPROTEC-ES is also available in a variety of light versions.

LEDs with controllable colour and colour temperature

The LED strip LT ES 9 allows for setting over 16 million different colour tones and colour temperatures from 2500 K - 6500 K.

Thanks to their combination of a three-coloured and a white LED in a very narrow space, the RGB+W LED strips by Schlüter-Systems offer an incomparably diverse light experience. With 192 LED/m, the RGB+W LED strips set standards in terms of light quality. And in combination with proven quality Schlüter®-LIPROTEC profiles, they create an absolutely homogenous light appearance without any spots. Thanks to IP67 protection, the LED strips can be used in damp rooms without hesitation.

All LEDs can be dimmed using the corresponding control technology. Learn more on page 47.

White LEDs with fixed colour temperature

The LED strips of series LT ES 1 to LT ES 6 are available in two different colour temperatures:

- warm white, 3300 Kelvin
Application examples: Well-being, relaxation, Mediterranean light
- neutral white, 4500 Kelvin
Application examples: Modern, attention, bright light

Suitable for moist rooms

The LED strips are encapsulated to provide protection against moisture and mechanical impacts to IP65/IP67 (protection against water sprays from all directions).

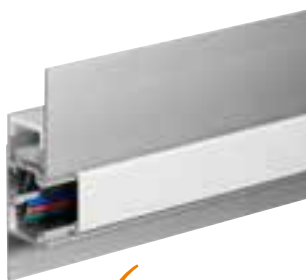
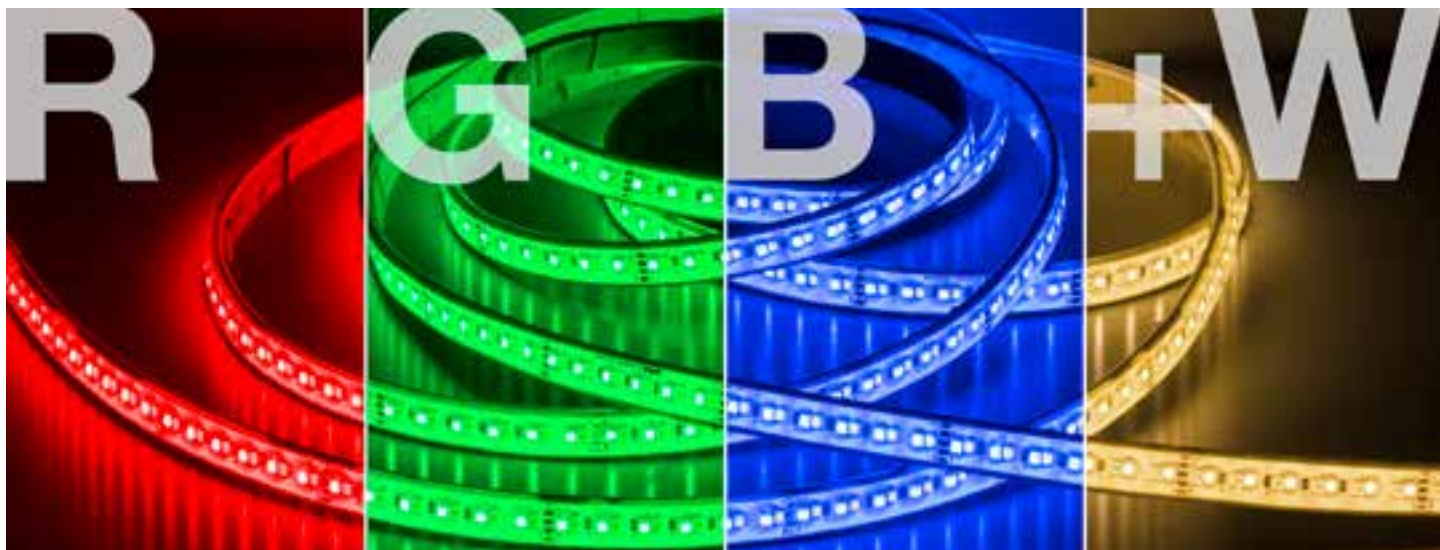


The LED strips may be shortened at the designated markings. Use the end cap included in the package and sealing adhesive to close the shortened LED strip to comply with IP.



Schlüter®-LIPROTEC-ES

Schlüter®-LIPROTEC-ES 9 are specifically for use in Schlüter light profiles with high-performance LEDs. With the especially close arrangement of coloured and white LEDs on a single strip, these enable the high quality rendering of both coloured light and colour temperature-controllable white light. The strips have an IP67 protection rating and are therefore approved for areas such as wetrooms, showers, en-suites and bathrooms.



✓ WSK



✓ WSQ



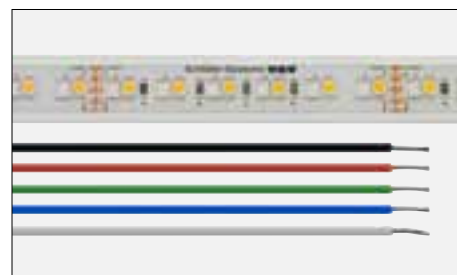
✓ WS



✓ LL

Schlüter®-LIPROTEC-ES ▲				
LED strips, RGB+W controllable				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	15	LT ES 9	74.91	10
200	15	LT ES 9/200	74.91	10
150	15	LT ES 9/150	79.59	10
100	15	LT ES 9/100	79.59	10
50	15	LT ES 9/50	86.15	10

LT ES 9: 192 LEDs/m – 15.0 W/m – 24 V, DC – max. length in the LIPROTEC system: 9.0 m



Schlüter®-LIPROTEC-Z		
replacement set: end caps set with sealing adhesive		
Art.-No.	£ / Set	P = Set
LT Z ES EK	6.81	10

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The LED strips in the price list comply with energy efficiency class A+ to A.
See page 56 for detailed information about the energy efficiency classes of our products.

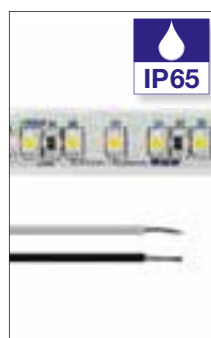
The classic: White light.

For everybody with enough colour in their lives, Schlüter®-LIPROTEC offers LED light in its purest form: classic white. Also dimmable on request and optionally in cool neutral white or warm white. This enables you to individually create either sober functional or cosy warm accent lighting.



Schlüter®-LIPROTEC-ES				
LED strip, warm white 3300 K				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	12	LT ES 1	56.18	10
200	12	LT ES 1/200	56.18	10
150	12	LT ES 1/150	60.87	10
100	12	LT ES 1/100	60.87	10
50	12	LT ES 1/50	65.55	10

LT ES 1: 120 LEDs/m – 9.6 W/m – 24 V, DC – max. length in the LIPROTEC system: 14 m

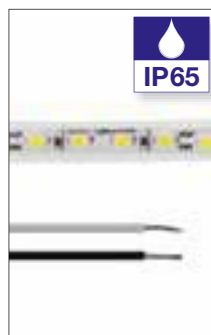
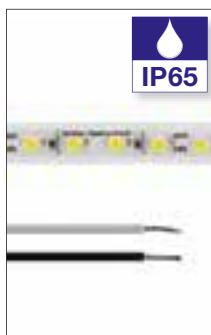


Schlüter®-LIPROTEC-ES				
LED strip, neutral white 4500 K				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	12	LT ES 2	56.18	10
200	12	LT ES 2/200	56.18	10
150	12	LT ES 2/150	60.87	10
100	12	LT ES 2/100	60.87	10
50	12	LT ES 2/50	65.55	10

LT ES 2: 120 LEDs/m – 9.6 W/m – 24 V, DC – max. length in the LIPROTEC system: 14 m

Schlüter®-LIPROTEC-ES				
LED strip, warm white 3300 K, narrow				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	8	LT ES 3	57.12	10
200	8	LT ES 3/200	57.12	10
150	8	LT ES 3/150	63.21	10
100	8	LT ES 3/100	63.21	10
50	8	LT ES 3/50	70.23	10

LT ES 3: 120 LEDs/m – 9.6 W/m – 24 V, DC – max. length in the LIPROTEC system: 14 m

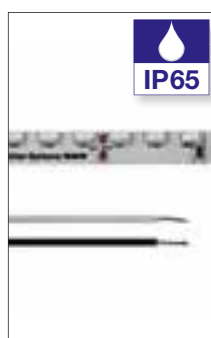
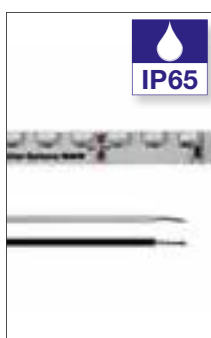


Schlüter®-LIPROTEC-ES				
LED strip, neutral white 4500 K, narrow				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	8	LT ES 4	57.12	10
200	8	LT ES 4/200	57.12	10
150	8	LT ES 4/150	63.21	10
100	8	LT ES 4/100	63.21	10
50	8	LT ES 4/50	70.23	10

LT ES 4: 120 LEDs/m – 9.6 W/m – 24 V, DC – max. length in the LIPROTEC system: 14 m

Schlüter®-LIPROTEC-ES				
LED strip, warm white 3300 K, lateral radiation				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	9	LT ES 5	56.18	10
200	9	LT ES 5/200	56.18	10
150	9	LT ES 5/150	60.87	10
100	9	LT ES 5/100	60.87	10
50	9	LT ES 5/50	68.36	10

LT ES 5: 120 LEDs/m – 9.6 W/m – 24 V, DC – max. length in the LIPROTEC system: 14 m

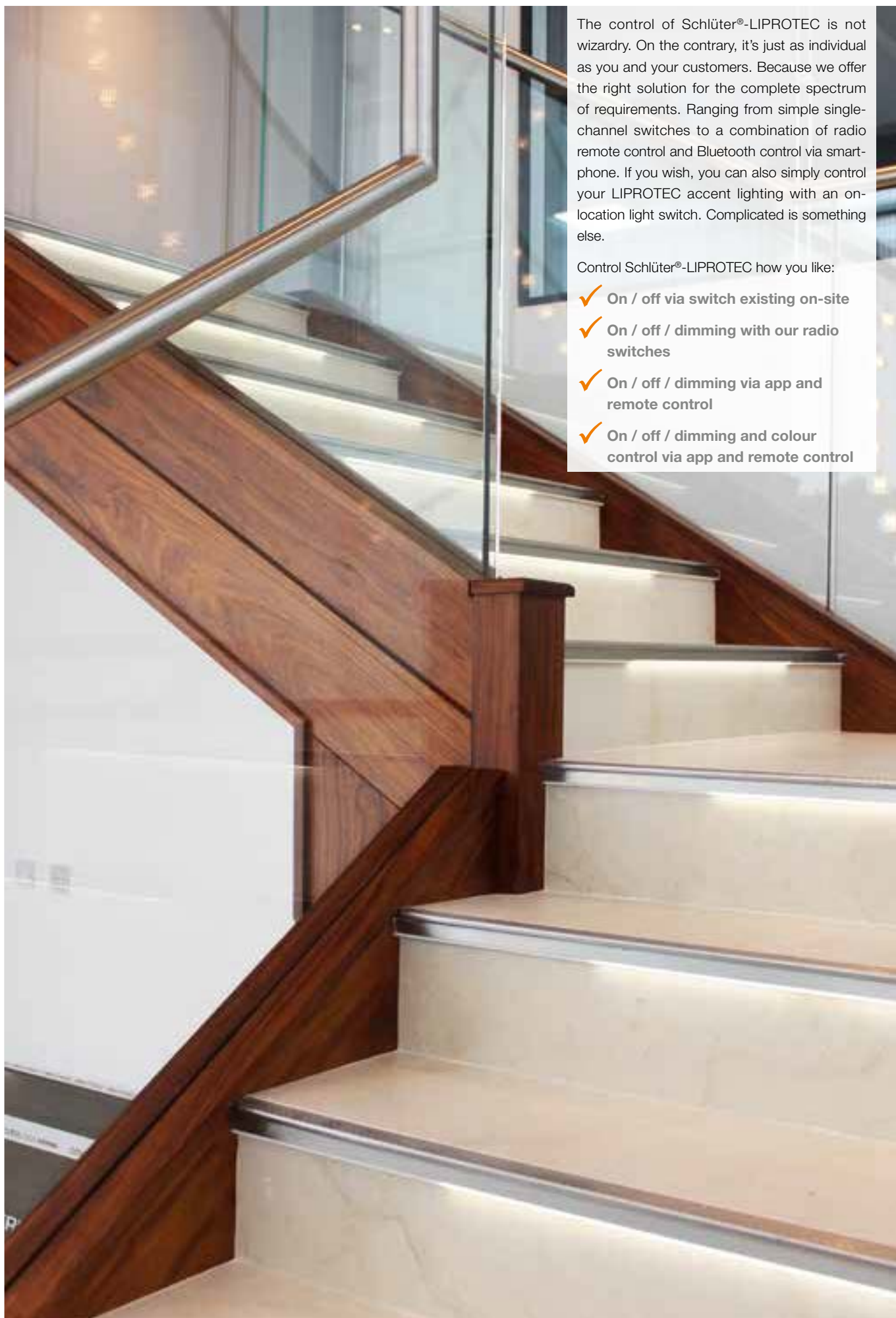


Schlüter®-LIPROTEC-ES				
LED strip, neutral white 4500 K, lateral radiation				
L = cm	B = mm	Art.-No.	£ / m	P = Unit
250	9	LT ES 6	56.18	10
200	9	LT ES 6/200	56.18	10
150	9	LT ES 6/150	60.87	10
100	9	LT ES 6/100	60.87	10
50	9	LT ES 6/50	68.36	10

LT ES 6: 120 LEDs/m – 9.6 W/m – 24 V, DC – max. length in the LIPROTEC system: 14 m

i
Recommended ambient
temperature: -20 °C to +40 °C

On / off / dim / adjust – individual light control



The control of Schlüter®-LIPROTEC is not wizardry. On the contrary, it's just as individual as you and your customers. Because we offer the right solution for the complete spectrum of requirements. Ranging from simple single-channel switches to a combination of radio remote control and Bluetooth control via smartphone. If you wish, you can also simply control your LIPROTEC accent lighting with an on-location light switch. Complicated is something else.

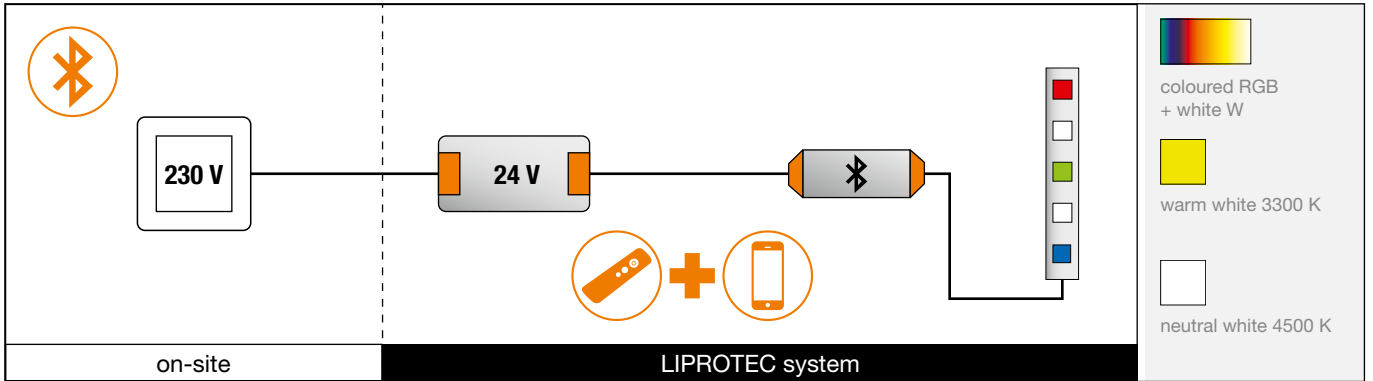
Control Schlüter®-LIPROTEC how you like:

- ✓ On / off via switch existing on-site
- ✓ On / off / dimming with our radio switches
- ✓ On / off / dimming via app and remote control
- ✓ On / off / dimming and colour control via app and remote control

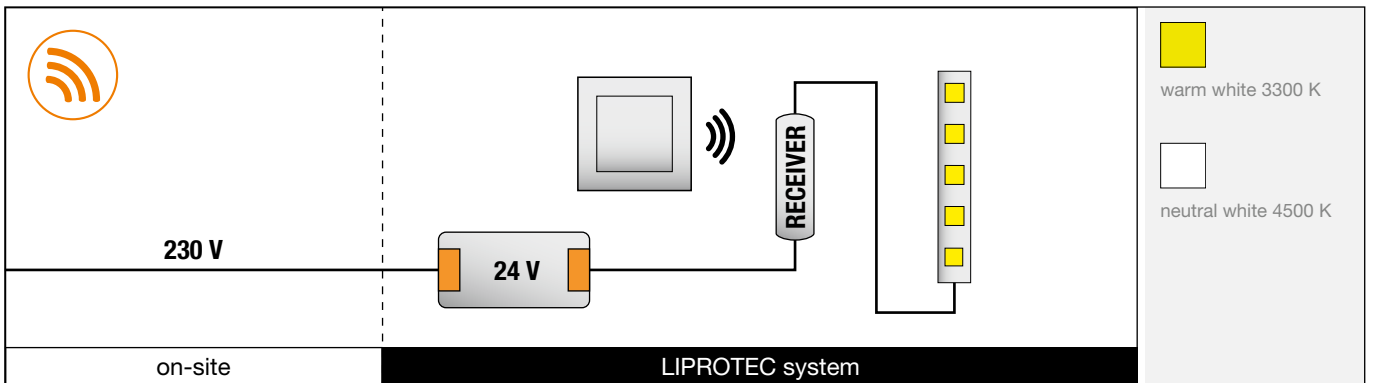
Control of Schlüter®-LIPROTEC LED installations

Schlüter®-LIPROTEC is a system for individual solutions. You also have complete selection flexibility for controlling the LEDs. You can choose between various concepts depending on the desired light type and installation size. You can use innovative and economic Bluetooth control, radio control with a transmitter and receiver, or control larger installations centrally using master/slave technology. Orient yourself with our schematic diagrams and let us guide you to the suitable technology.

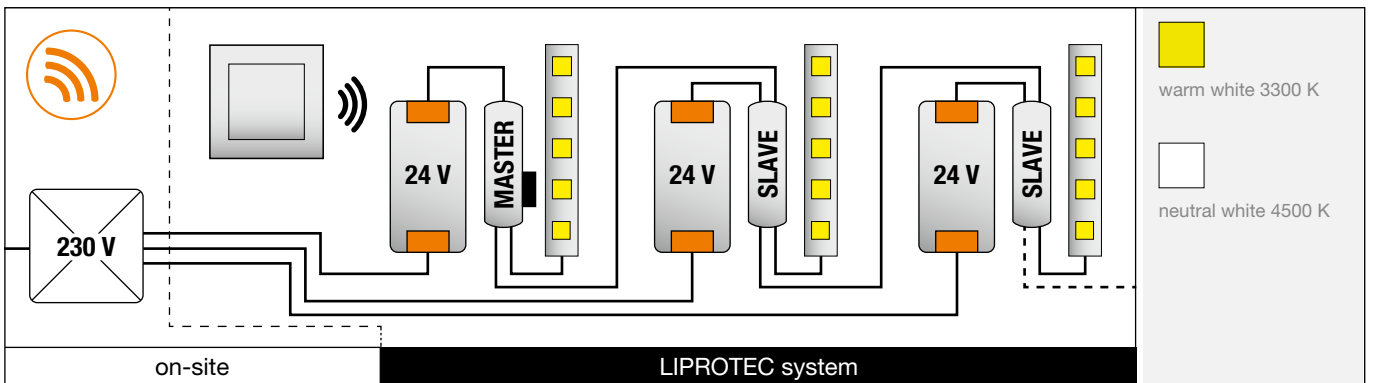
Bluetooth control (smartphone/tablet with free app) 49



Radio control (transmitter and receiver) 50



Radio control for objects (transmitter and master/slave receiver) 52



Note!
Please see the Technical Manual
for further control options.

Schlüter®-LIPROTEC Bluetooth/radio control

Schlüter®-LIPROTEC-EBR are Bluetooth receivers for installations with innovative light profile technology. Control of the new Schlüter®-LIPROTEC-EBR 1 and -EBR 4 receivers is either via a remote control contained in the scope of supply or via mobile end devices such as smartphones and tablets. An attractive wall holder accommodates the remote control using a magnet fixing system. An app for control is downloaded for free via Google Play (Android™) or the Apple App Store (iOS).



Schlüter®-LIPROTEC-EBR 4

Schlüter®-LIPROTEC-EBR 4 is a Bluetooth/radio receiver for controlling up to 9 m of LED strip from the LT ES 9 series using the included radio remote control or via suitable Bluetooth-capable smartphones or tablets. Operating the receiver via Bluetooth is carried out with the Schlüter®-LED-Colour-Control app available both for Android and iOS devices and downloaded for free. Up to two end devices can be simultaneously coupled with the receiver.

In excess of 16 million colours and white tones with variable colour temperatures can be set with the RGB+W LED strips LT ES. A preselection of white and coloured light tones can be called up and stored as favourites in the app. 42 different colour sequences are preprogrammed and can be played at variable speeds. The very compact dimensions of the Bluetooth receiver enable space-saving installation.

We recommend using an on-site light switch to optimise operating comfort.

Schlüter®-LIPROTEC-EBR 4		
Bluetooth/radio receiver RGB+W, controllable		
Art.-No.	£ / U.	P = Unit
LT EBR 4	140.46	10



Contents:

- Bluetooth receiver 24 V
- Radio remote control with battery
- Wall holder for remote control
- 5 pcs. connection terminals, 3-core



Bluetooth receiver – technical values (for use with LT ES 9 RGB+W LED strips)

Max. range:	10 m
Input voltage:	24 V, DC
Max. total load in LIPROTEC system:	135 W
Max. length of LT ES 9 RGB+W LED strips in a LIPROTEC system:	9 m
IP Code:	IP63
Ambient temperature:	-20 °C to +50 °C

Schlüter®-LIPROTEC-EBR 1

Schlüter®-LIPROTEC-EBR 1 is a Bluetooth/radio receiver for controlling up to 14 m of white LED strip from the LT ES 1 – LT ES 6 series using the included radio remote control or via suitable Bluetooth-capable smartphones or tablets. Operating the receiver via Bluetooth is carried out with the Schlüter®-LED-Colour-Control app available both for Android and iOS devices and downloaded for free. The variously dimmed luminous intensities can be saved as favourites in the app software and controlled via a mobile end device and the included remote control.

Up to two end devices can be simultaneously coupled with the receiver. The very compact dimensions of the receiver enable space-saving installation. We recommend using an on-site light switch to optimise operating comfort.

Schlüter®-LIPROTEC-EBR 1		
Bluetooth/radio receiver, white		
Art.-No.	£ / U.	P = Unit
LT EBR 1	135.78	10



Contents:

- Bluetooth receiver 24 V
- Radio remote control with battery
- Wall holder for remote control
- 2 pcs. connection terminals, 3-core



Bluetooth receiver – technical values (for use with LT ES 1-LT ES 6 LED strips)

Max. range:	10 m
Input voltage:	24 V, DC
Max. total load in LIPROTEC system:	135 W
Max. length of LT ES 1-LT ES 6 LED strips in a LIPROTEC system:	14 m
IP Code:	IP63
Ambient temperature:	-20 °C to +50 °C

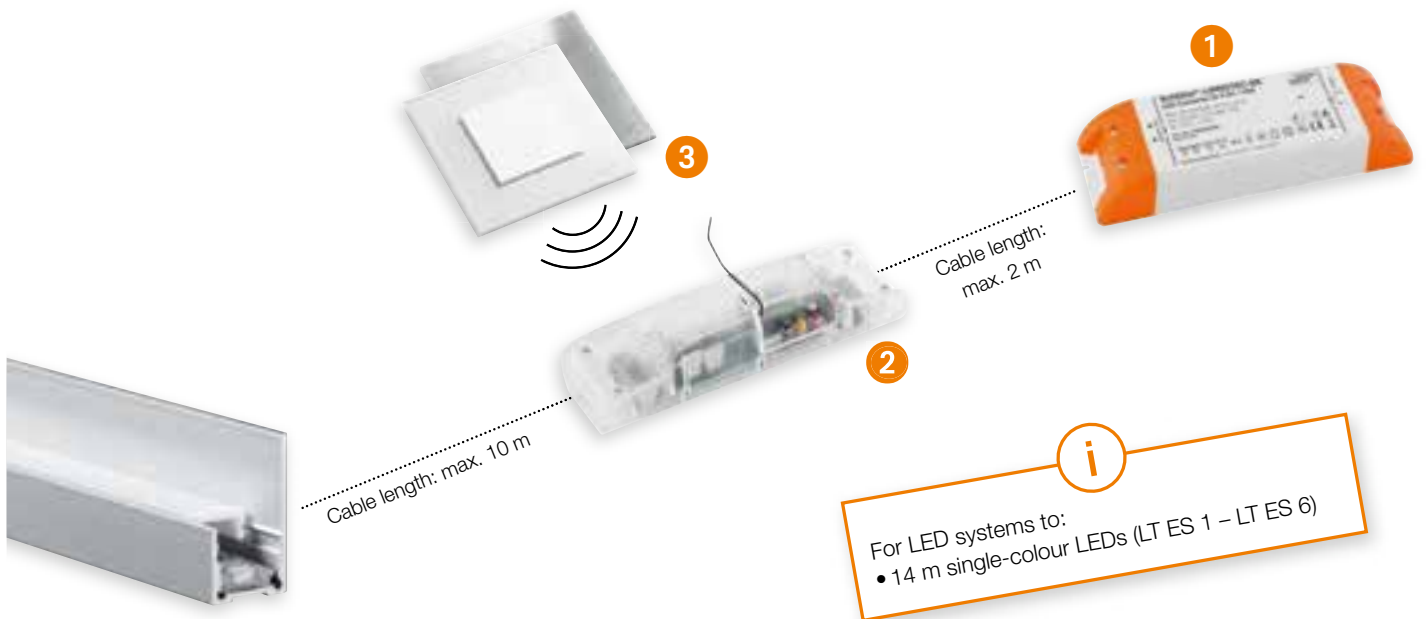


Note!

Please see the Technical Manual for further control options.

Everything under control: Systematic LED control

We offer system components of the highest quality for light control to help you make full use of the options of the Schlüter®-LIPROTEC illuminated profile technology. These range from reliable power supplies to intelligent receivers and elegant switch that send their commands wirelessly to the illumination components. As an additional benefit for you, wireless control technology significantly reduces the expenditure of installation and wiring.



1 Schlüter®-LIPROTEC-EK – power supplies

Power supplies convert the main voltage to the 24 V required by our LED strips. They are easy to install and available in different wattages from 30 to 150 W for LED strips up to 14 linear metres.

2 Schlüter®-LIPROTEC-ER – receiver

Receivers transpose the wireless signals from the switch into commands for the LED strips.

- LT ER 1 (on, off, dim) for simultaneous control of white LED strips with fixed colour temperature.

3 Schlüter®-LIPROTEC-E – switch

Switches serve for the adjustment of the illuminated profile technology by the user. Due to the wireless control, installation is particularly easy. All switches are available in two different frame design options. You can choose between genuine glass, back-coated in brilliant white or brushed stainless steel.

The switches are available in the following versions:

- 1 channel (on, off, dim) for controlling white LED strips with fixed colour temperature together with receiver LT ER 1.
- 2 channel (on, off, dim) for simultaneous control of two receivers LT ER 1 with white LED strips and fixed colour temperature.

Schlüter®-LIPROTEC-EK

Schlüter®-LIPROTEC-EK				
power supply 24 V DC				
Watt	max. Watt*	Art.-No.	£ / U.	P = Unit
30	27	LT EK 24V 30W	50.36	10
50	45	LT EK 24V 50W	71.67	10
75	67.5	LT EK 24V 75W	92.01	10
100	90	LT EK 24V 100W	154.96	10
150	135	LT EK 24V 150W	179.17	10



Ambient temperature: -20 °C to +50 °C,
input voltage: 230 V, AC

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

Schlüter®-LIPROTEC-ER

The receivers convert radio signals received from the transmitter into commands for the LED strips and enable continuous dimming.

Schlüter®-LIPROTEC-ER		
receiver with connection cable, unicolour 24 V		
Art.-No.	£ / U.	P = Unit
LT ER 1	237.27	10



For operating LED strips LT ES 1 – LT ES 6.

Schlüter®-LIPROTEC-E

The radio transmitters are for control of the light profile technology by the user. Wireless control makes the installation especially simple. All transmitters are optionally available with two different frame designs. You can choose between real glass coated underside brilliant white or stainless steel V4A brushed.

The transmitters can be fixed to suitable substrates with the supplied double-sided sticky tape (installation box not required).

Schlüter®-LIPROTEC-E			
switch, genuine glass, brilliant white			
Type of switch	Art.-No.	£ / U.	P = Unit
1	LT E1 KS BW	130.74	10
2	LT E2 KS BW	140.43	10

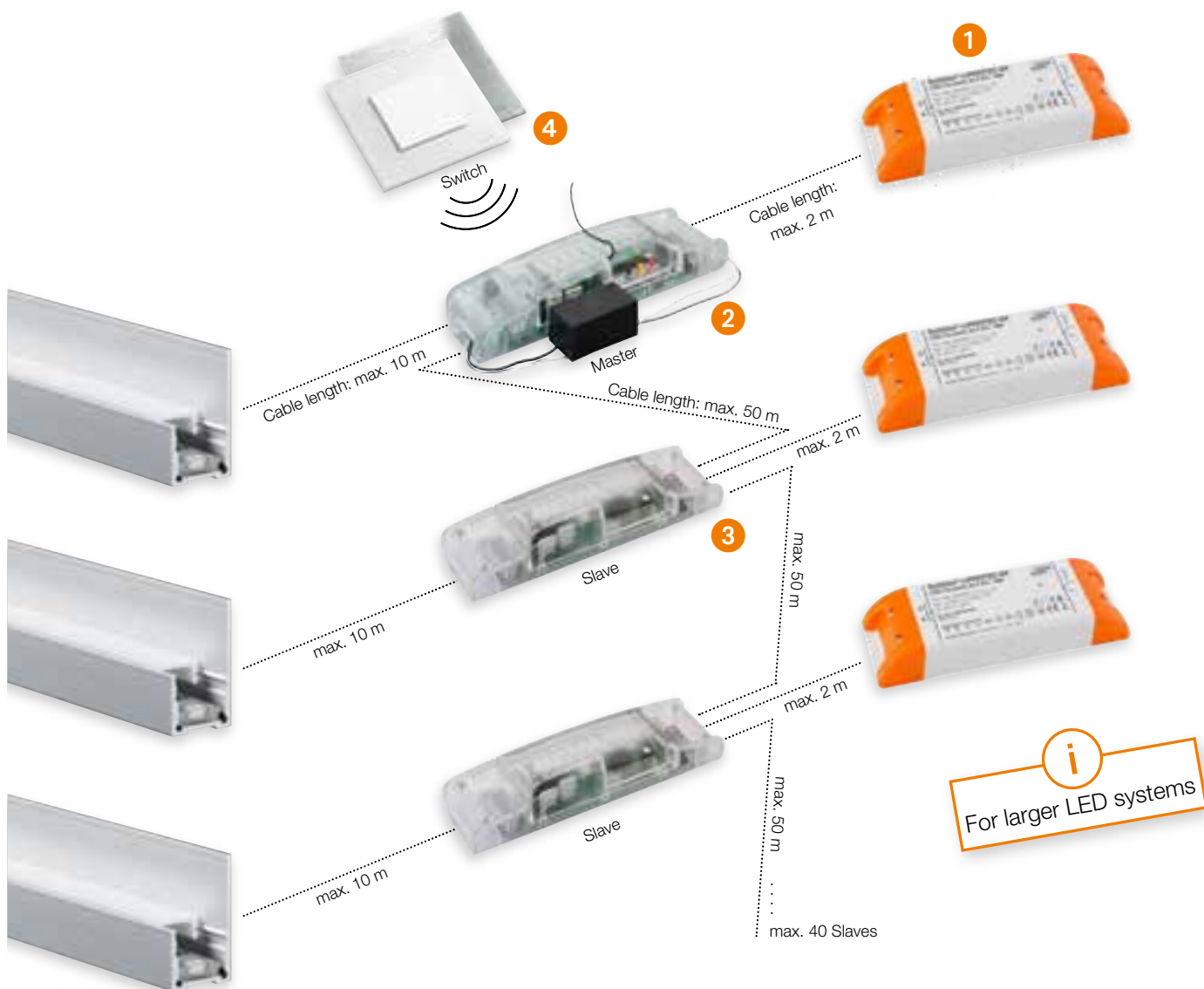


Schlüter®-LIPROTEC-E			
switch, brushed stainless steel			
Type of switch	Art.-No.	£ / U.	P = Unit
1	LT E1 KS EB	125.90	10
2	LT E2 KS EB	127.83	10



Central control with master/slave technology

As a supplement to reliable radio control, you can now also control larger light profile technology installations via master/slave technology. The range of components includes reliable power supply units, intelligent master/slave receivers and elegant transmitters that send commands wirelessly to the light installation. Only the connections between power supply units and receivers as well interconnection between receivers (master/slave and slave/slave) is implemented with cables. As a result, 24 V LED strips can be installed to a length of 570 m, and controlled via a single, central radio transmitter.



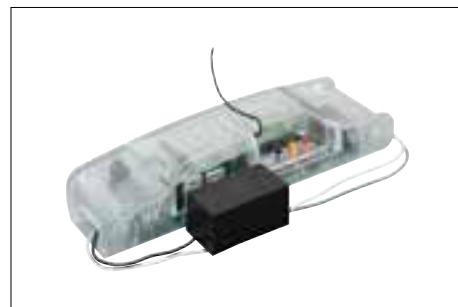
The principle: master/slave

The master/slave system enables the simultaneous control of several interconnected receivers over long distances (maximum of 200 m). For this purpose, a master receiver is connected via a 2-core AWG 16 cable with up to 40 slave receivers. The master receiver is taugt-in together with the transmitter, and slave receiver functionality follows the master receiver. This enables large installations with slave receivers far apart from each other to be centrally controlled with only one transmitter.

Schlüter®-LIPROTEC-ERM

Schlüter®-LIPROTEC-ERM is a master receiver for the central control of large Schlüter®-LIPROTEC light installations in accordance with the master/slave principle. The receiver forwards commands received from the radio transmitter to up to 40 slave receivers via a 2-core AWG 16 cable.

Schlüter®-LIPROTEC-ERM		
LED master receiver, 24 V		
Art.-No.	£ / U.	P = Unit
LT ERM 1	268.26	10



For operating LED strips LT ES 1 – LT ES 6.

1 Schlüter®-LIPROTEC-EK – power supplies

The power supply units convert the mains voltage to 24 V, as required for the LED strips. The units are easy to install and available in various wattages from 30 to 150 W.

2 Schlüter®-LIPROTEC-ERM – master receiver

The master receiver converts radio signals received from the transmitter into commands for the LED strips, and are the first component in a lighting system.

- LT ERM 1 (on-off-dimming) for controlling white LED strips with permanent colour temperature (LT ES 1-LT ES 6).

3 Schlüter®-LIPROTEC-ERS – slave receivers

The slave receivers convert signals received from the master into commands for the LED strips. They are downstream components from the master and are interconnected in sequence. Slave receivers can only be controlled by the appropriate master receiver.

- LT ERS 1/3 (on-off-dimming/colour change) for the simultaneous control of white (LT ES 1-LT ES 6)

The control line between master and slaves is a 2 x 1.31 mm² low voltage cable (AWG16).

4 Schlüter®-LIPROTEC-E – switch

Switches serve for the adjustment of the illuminated profile technology by the user. Due to the wireless control, installation is particularly easy. All switches are available in two different frame design options. You can choose between genuine glass, back-coated in brilliant white or brushed stainless steel.

The switches are available in the following versions:

- 1 channel (on, off, dim) for controlling white LED strips with fixed colour temperature together with master receiver LT ERM 1.
- 2 channel (on, off, dim) for simultaneous control of two master receivers LT ERM 1 with white LED strips and fixed colour temperature.

Master/slave system – technical values

(specifications with 24 V LED strips from the LT ES 1-LT ES 6 range)

Receiving frequency:	868.3 Mhz
Power supply:	24 V, DC
Max. total load in LIPROTEC system:	135 W
IP Code:	IP20
Ambient temperature:	-20 °C to +50 °C

Max. possible length of LED strips in master/slave system

LT ES 1 – LT ES 6 LED strips:	570 m
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 See page 51 for transmitters.

Schlüter®-LIPROTEC-ERS

Schlüter®-LIPROTEC-ERS is a slave receiver for the central control of large Schlüter®-LIPROTEC light installations in accordance with the master/slave principle. Up to 40 slave receivers can be controlled by a master receiver via a 2-core AWG 16 cable.

Schlüter®-LIPROTEC-ERS

LED slave receiver, 24 V

Art.-No.	£ / U.	P = Unit
LT ERS 1/3	234.73	10



For operating LED strips LT ES 1 – LT ES 6.

Accessories for wiring

We also offer a complete range of accessories for the wiring installation of the Schlüter®-LIPROTEC system. Schlüter®-KERDI-BOARD installation modules with pre-cut cable ducts are an ideal practical solution. They can take up the two part cable duct Schlüter®-LIPROTEC-ZKK by simply placing the cables inside from the front. There is no need to thread any wires through conduits. The closed cable duct can then be sealed with the jointing tape Schlüter®-KERDI-KEBA and Schlüter®-KERDI-COLL-L sealing adhesive.

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.

Schlüter®-LIPROTEC-ZK			
low voltage cable, 2 x 1.31 mm ² (AWG16)			
L = m	Art.-No.	£ / U.	P = Unit
25	LT ZK 2A 10 25M	48.92	10



Cable for LED strips LT ES 1 – LT ES 6 and for connecting power supply and receiver.

Schlüter®-LIPROTEC-ZK ▲			
low voltage cable, 5 x 1.31 mm ² (AWG16)			
L = m	Art.-No.	£ / U.	P = Unit
25	LT ZK 5A 10 25M	107.68	10



Cable for LED strips LT ES 9.

Schlüter®-LIPROTEC-ZS

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



- Contents:
- 1 x cable (800 cm), 2 x 1.31 mm² (AWG16)
 - 1 x cavity wall connection socket with cover
 - 1 x recessed connection socket with cover
 - 2 x Wago terminals, 32 A, 5 wires

Schlüter®-LIPROTEC-ZS			
connection set, 2-core			
Art.-No.	£ / Set	P = Set	
LT ZS 2A	31.25	10	

Connection set for LED strip LT ES 1 – LT ES 6, and for power supply unit and receiver connection.



- Contents:
- 800 cm cable, 5 x 1.31 mm² (AWG16)
 - 1 x cavity wall connection socket with cover
 - 1 x recessed connection socket with cover
 - 5 x Wago terminals, 32 A, 3 wires

Schlüter®-LIPROTEC-ZS ▲			
connection set, 5-core			
Art.-No.	£ / Set	P = Set	
LT ZS 5A	49.63	10	

Connection set for LED strip LT ES 9.

Schlüter®-LIPROTEC-ZLR

Schlüter®-LIPROTEC-ZLR			
conduit, diameter 20 mm			
L = m	Art.-No.	£ / U.	P = Unit
50	LT ZLR 20 50M	73.44	10

Schlüter®-LIPROTEC-ZKK

Schlüter®-LIPROTEC-ZKK			
cable duct, white			
L = m	Art.-No.	£ / U.	P = Unit
2.5	LT ZKK 2010	3.43	10



Schlüter®-LIPROTEC-Z

Schlüter®-LIPROTEC-Z				
hollow wall junction box with lid, Set = 5 units				
Ø	H = mm	Art.-No.	£ / Set	P = Set
68 mm	47	LT Z 5HD 47	13.71	10



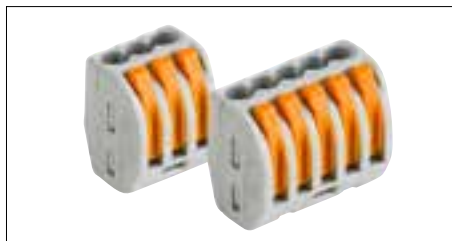
Schlüter®-LIPROTEC-Z				
concealed junction box with lid, Set = 5 units				
Ø	H = mm	Art.-No.	£ / Set	P = Set
65 mm	46	LT Z 5UD 46	10.29	10

Schlüter®-LIPROTEC-Z				
hollow wall junction box with lid, Set = 5 units				
Ø	H = mm	Art.-No.	£ / Set	P = Set
68 mm	47	LT Z 5HDD 47	64.14	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	36.70	10

Schlüter®-LIPROTEC-ZKL

Schlüter®-LIPROTEC-ZKL				
cage clamp terminals				
wires	Package = Unit	Art.-No.	£ / Package	P = Package
3	50	LT ZKL 3A	34.27	10
5	40	LT ZKL 5A	41.38	10



Schlüter®-KERDI-BOARD-K

Schlüter®-KERDI-BOARD-K are installation modules with pre-cut grooves for accommodating Schlüter®-LIPROTEC cable ducts. The groove is designed to also accommodate a 19 mm-thick Schlüter®-KERDI-BOARD profile 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	14.13	10
28	KB 28 150 2500 K1	16.79	10



Schlüter®-DESIGNBASE-HVL

Schlüter®-DESIGNBASE-HVL is an adhesion promoting fleece tape with a self-adhesive butyl layer on the reverse. It is suitable for creating adhesive substrates for thin set adhesives on metal profiles.

Schlüter®-DESIGNBASE-HVL			
self-adhesive bonding fleece			
B = mm	L = 20 m Art.-No.	£ / U.	P = Unit
38	HVL 38 / 20M	24.67	10
75	HVL 75 / 20M	49.70	10

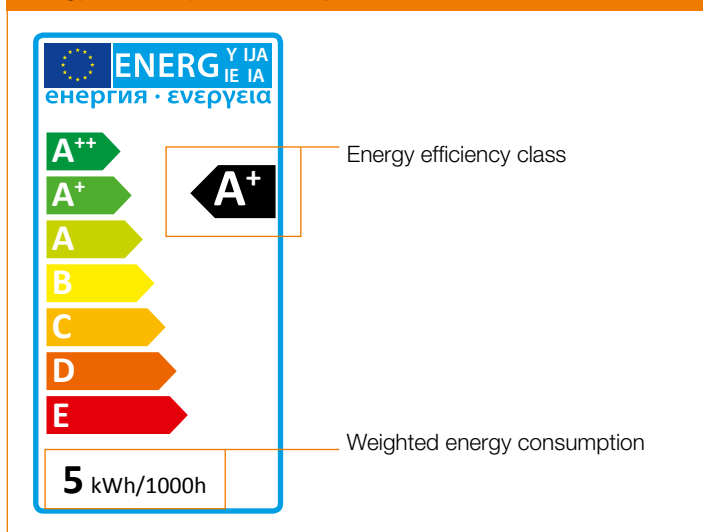


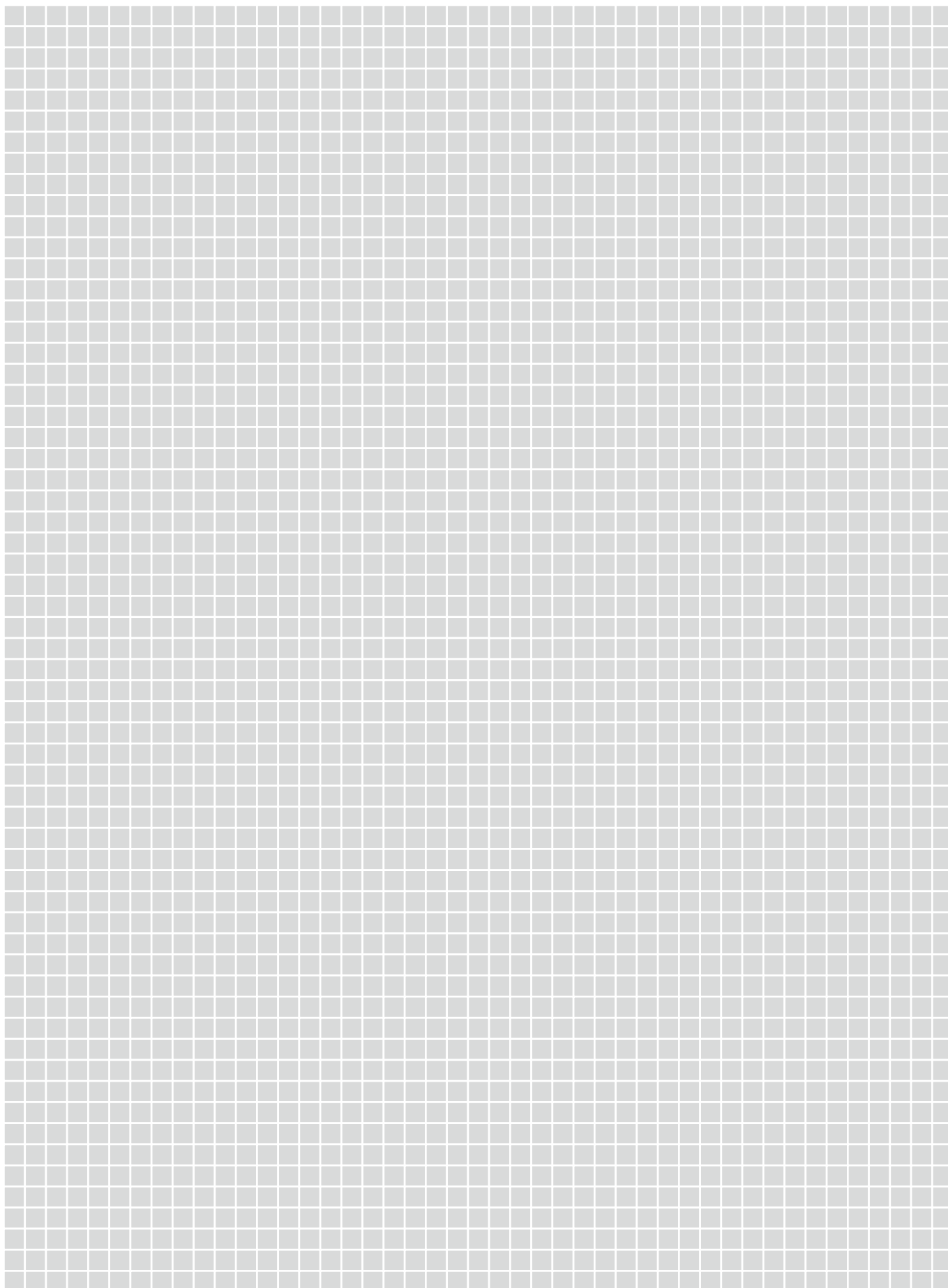
Energy efficiency classes of Schlüter®-LIPROTEC LED strips

Art.-No.	Energy efficiency class	kWh / 1000h
PB 15 S1 AE/100	A	58
PB 15 S1 AE/150	A	58
PB 15 S1 AEEB/100	A	58
PB 15 S1 AEEB/150	A	58
PB S1 AE/100	A+	4
PB S1 AE/150	A+	4
PB S1 AEEB/100	A+	4
PB S1 AEEB/150	A+	4
LT D90 S1 AE	A	36
LT D90 S2 AE	A	36
WS 20 ZS2 LT ES9	A	65
WS 20 ZS3 LT ES9	A	65
LT ES 1	A+	23
LT ES 1/200	A+	19
LT ES 1/150	A+	15
LT ES 1/100	A+	10
LT ES 1/50	A+	5
LT ES 2	A+	23
LT ES 2/200	A+	19
LT ES 2/150	A+	15
LT ES 2/100	A+	10
LT ES 2/50	A+	5
LT ES 3	A+	23

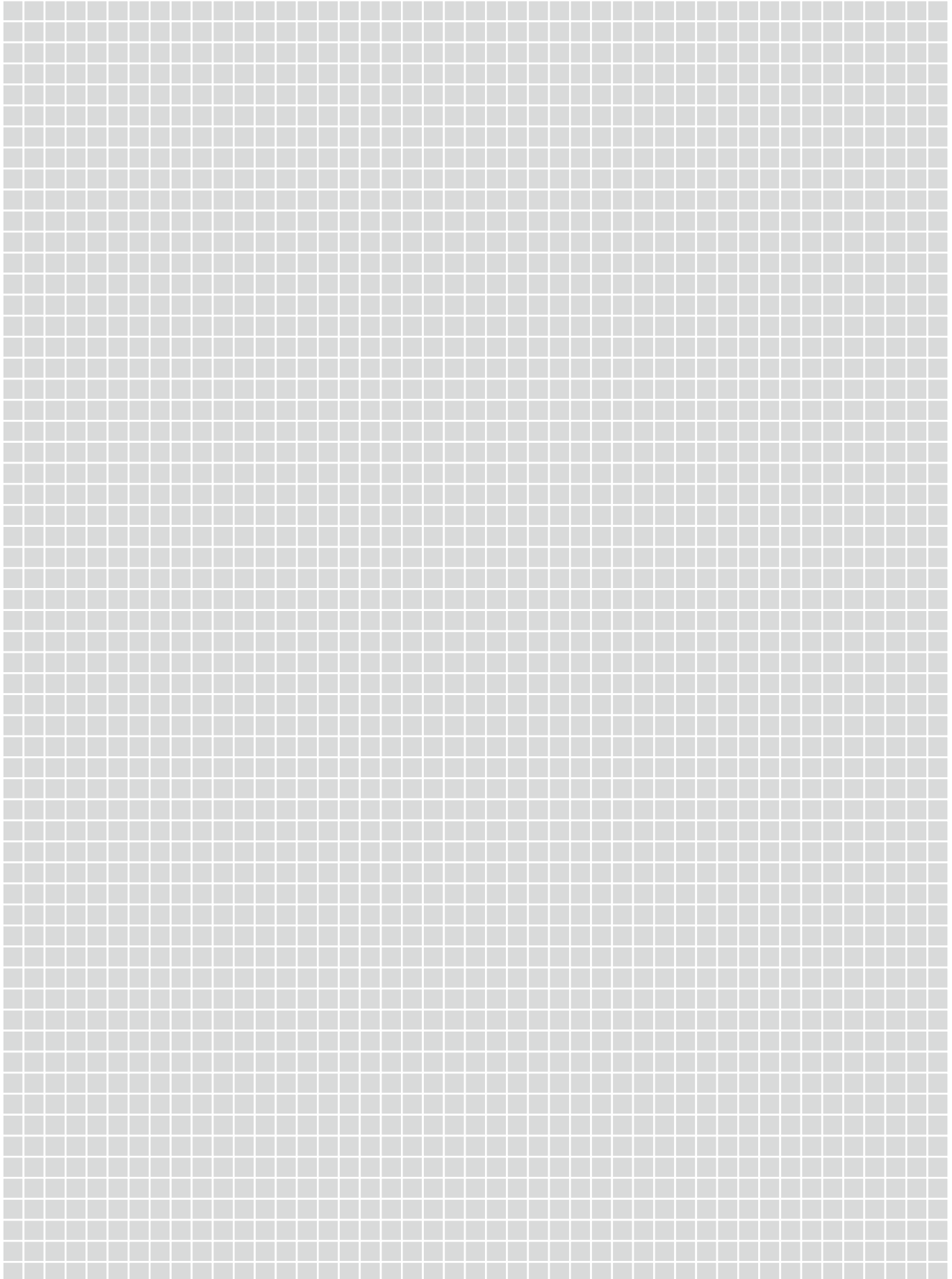
Art.-No.	Energy efficiency class	kWh / 1000h
LT ES 3/200	A+	19
LT ES 3/150	A+	15
LT ES 3/100	A+	10
LT ES 3/50	A+	5
LT ES 4	A+	23
LT ES 4/200	A+	19
LT ES 4/150	A+	15
LT ES 4/100	A+	10
LT ES 4/50	A+	5
LT ES 5	A	22
LT ES 5/200	A	19
LT ES 5/150	A	14
LT ES 5/100	A	10
LT ES 5/50	A+	5
LT ES 6	A	22
LT ES 6/200	A	19
LT ES 6/150	A	14
LT ES 6/100	A	10
LT ES 6/50	A+	5
LT ES 9	A	33
LT ES 9/200	A	26
LT ES 9/150	A	22
LT ES 9/100	A	16
LT ES 9/50	A	8

Energy efficiency label example





N O T E S



General Terms and Conditions



Subject to the General Terms and Conditions of Schlüter-Systems Ltd.

All previous price lists lose their validity on the publication of this price list. Errors, changes, and printing mistakes as well as changes necessary in the interest of product innovation or shipping reserved.

For reasons of printing, colours shown in this price list may differ from actual product colours.

You find the actual "General Terms and Conditions" of Schlüter-Systems Ltd. here:

www.schluter.co.uk/downloads.aspx



www.liprotec.com



www.schlueter-systems.com/app/

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Information. Find out more!

Would you like to learn more about Schlüter®-LIPROTEC? Visit us online at **www.liprotec.co.uk** where you can find additional information with the click of your mouse.



Please refer to the Technical Manual for detailed technical information on the installation of Schlüter®-LIPROTEC and for our warranty conditions.



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