

Schlüter®-LIPROTEC-LLE

Illuminated profile technology
Linear corner light

15.7

Product data sheet

Application and function

Schlüter-LIPROTEC-LLE is a high quality support profile made of anodised or powder coated aluminium for the attachment of the various Schlüter-LIPROTEC-ES LED strips. The profile is designed to create accent illumination in the form of linear light at ceiling transitions, in wall coverings and in wall corners.

The available accessories include matching end caps and internal and external corners in the respective finishes for retrofit installation.

For lighting, the selected Schlüter-LIPROTEC-ES LED strip is adhered within the profile and covered with the corresponding diffuser lens. The diffuser lenses and LED's used with all profiles of the Schlüter-LIPROTEC series can be replaced even in installed condition.

Note: The illumination set **Schlüter-LIPROTEC-LLPE** is a pre-assembled LED module made from a flexible, encapsulated LED strip with homogeneous light distribution and the attachment profile Schlüter-LIPROTEC-LLE (see product data sheet 15.8 Schlüter-LIPROTEC modules).

Material

Schlüter-LIPROTEC-LLE is available in the following materials:

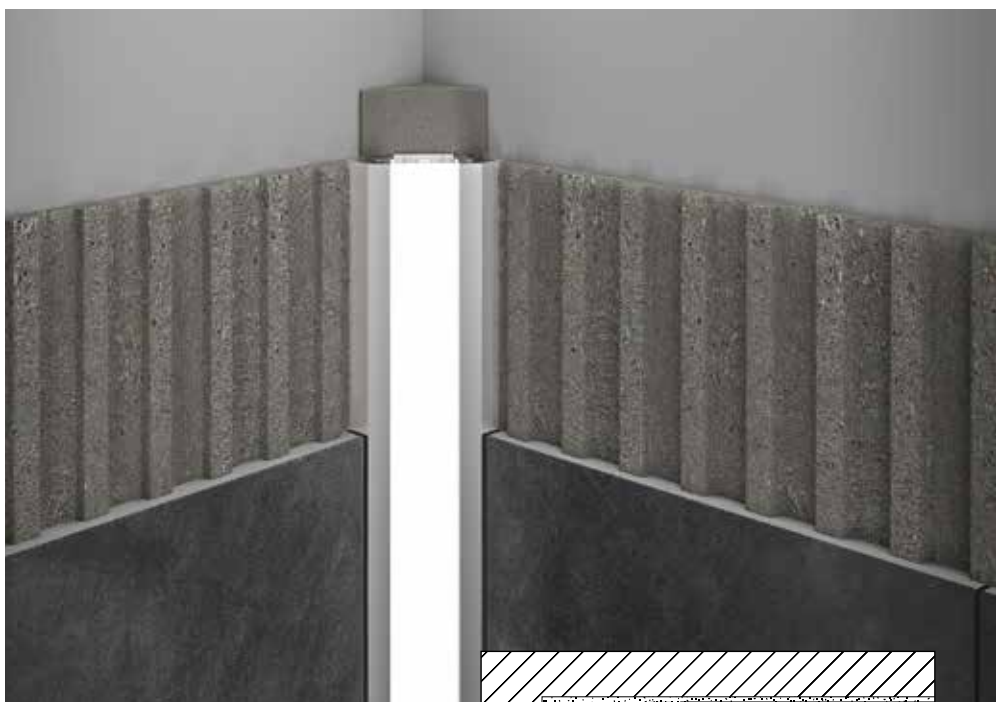
Profile:

AE = anodised aluminium

AC = colour coated aluminium

Diffuser lens:

PMMA = polymethyl methacrylate



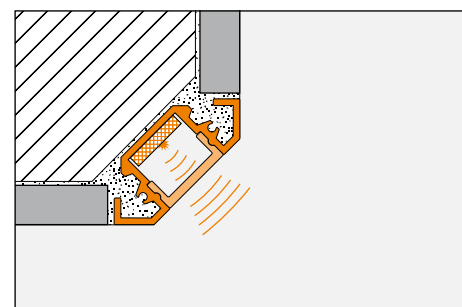
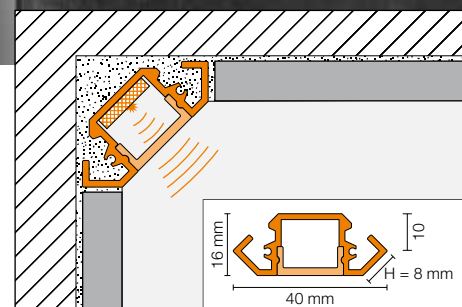
Material properties and areas of application:

In special cases, the suitability of the profile must be verified, based on the anticipated chemical or mechanical stresses. The information provided below is intended as a general guideline.

Schlüter-LIPROTEC-LLE (anodised aluminium): The aluminium features an anodised finish that retains a uniform appearance during normal use.

Visible edges should be protected against abrasion. Aluminium is sensitive to alkaline media.

Cementitious materials, in conjunction with moisture, become alkaline, which may result in corrosion depending on the concentration and length of exposure (aluminium hydroxide formation).





Remove adhesive or grout immediately from visible areas and don't cover freshly installed assemblies with foil. The profile must be solidly embedded in the setting material to prevent water from accumulating in small cavities.

LIPROTEC-LLE (Colour-coated aluminium): The aluminium is suitably pre-treated and then powder-coated with a polyurethane coating. The coating is colour-stable and also UV and weather-resistant. Visible edges must be protected against abrasion or scratching.

Installation

Please observe the corresponding Schlüter-LIPROTEC installation instructions for installing the lights and for planning and positioning the cables.

Schlüter-LIPROTEC-LLE can be directly integrated into the tile assembly or retrofitted in wall corners with the installation clips **Schlüter-LIPROTEC-LLE-MK**.

Direct installation (profile integration into tile assembly)

1. Schlüter-LIPROTEC-LLE is suitable for tile thicknesses ≥ 8 mm.
2. Apply tile adhesive to the area where the profile is to be installed, using an appropriate notched trowel.
Note: If the profile is to be installed to finish an external edge, the wall corner must be chamfered at a sufficiently large 45° angle.
3. Completely fill the reverse of the profile with tile adhesive.
4. Now press Schlüter-LIPROTEC-LLE into the adhesive bed.
5. Leave a joint of approx. 1.5 mm between the tile and the profile. Completely fill the joint with grout.

6. Use suitable materials and tools for sensitive surfaces to avoid scratches or other damage. All mortar or tile adhesive residue must be removed immediately.
7. Use mitre cuts to form corner connections.

Subsequent installation (with installation clips Schlüter-LIPROTEC-LLE-MK)

1. Mark the elongated openings in the installation clip Schlüter-LIPROTEC-LLE-MK on the wall. Use a drill (diameter 5 mm) to drill a 35 mm deep hole for each of the supplied wall anchors.

Note: We recommend an installation spacing ≤ 50 cm for the installation clips. Use at least 2 installation clips for shorter profile pieces.

2. Then press Schlüter-LIPROTEC-LLE evenly into the installation clips.

Note: For optimal profile attachment, the installation clips can be re-adjusted with pliers.

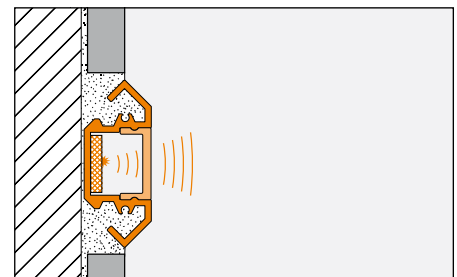
3. To form corner connections, cut the profiles to size in such a way that the inner profile surfaces are flush. Trim the diffuser lenses by approx. 9 mm on each side with a suitable tool before snapping in the corner - see Fig. "Retrofitting corners".

Note: A small amount of light may be visible at the corners once installed. You can cover the area with a suitable material to conceal this light.

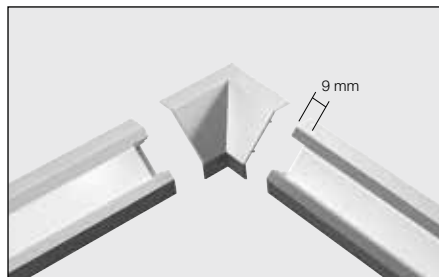
4. At a corner the open end of the profile allows the LED to continue to the next profile as the corner piece will cover the joint.

Note

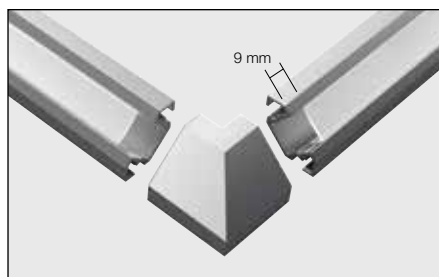
Schlüter-LIPROTEC-LLE requires no special maintenance or care. Do not use abrasive cleaning agents on sensitive surfaces. Damaged anodised finishes may only be repaired by recoating. All cleaning agents must be free of hydrochloric and hydrofluoric acid. Alcohol (e.g. ethyl alcohol) as well as detergents with a surfactant content over 5% can cause damage to the diffuser lens.



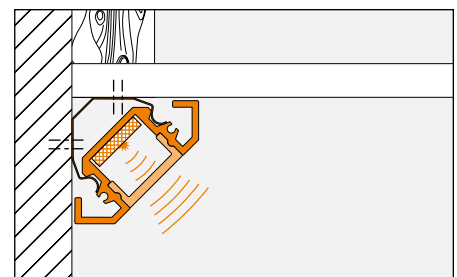
Wall mounting



Retrofit installation: internal corner



Retrofit installation: external corner



Example: Retrofit installation



Due to minor heat development of the Schlüter-LED strips used in the profile, the expansion of the profile and the utilised diffuser lens may differ.

Profiles retrofitted with the installation clips Schlüter-LIPROTEC-LLE-MK are reversible, including corners and end caps, and can be reused in a different location.

Product Overview

Schlüter®-LIPROTEC-LLE

AE = anodised aluminium / MBW = matt brilliant white
Supplied lengths: 2.50 m

	AE	MBW
Profile	•	•
End cap	•	•
External corner (AE appearance)	•	•
Internal corner (AE appearance)	•	•
Installation clip		

Diffuser lenses

PMMA = Polymethyl methacrylate
Degree of transmission, diffuser lens:
Schlüter®-LIPROTEC-WSI = 43%
Supplied lengths: 2.50 m

	Diffuser lens
LIPROTEC-WSI	•



Aluminium brilliant white (MBW)



Anodised aluminium (AE)



Wall anchor



End cap

Text template for tenders:

_____linear metres of Schlüter-LIPROTEC-LLE as a support profile for creating accent illumination in wall coverings for the attachment of the various LED strips Schlüter-LIPROTEC-ES and the diffuser lenses Schlüter-LIPROTEC-WSI (43 %) for direct/indirect lighting, to be supplied and professionally installed.

- The cable installation to the individual profiles
- is to be included in the unit pricing
 - is to be invoiced separately
- End caps - matching the profile -
- are to be included in the unit pricing
 - are to be invoiced separately
- Internal and external corners - matching the profile -
- are to be included in the unit pricing
 - are to be invoiced separately
- The manufacturer's installation instructions must be observed.

Material of attachment files:

- AE = Anodised aluminium
- AC = Colour coated aluminium (MBW)

Material of diffuser lens:

PMMA, polymethyl methacrylate

Art.-No.: _____

Material: _____/m

Labour: _____/m

Total: _____/m

