**Application and Function**

Schlüter®-DILEX-BT is a maintenance free structural movement profile made of aluminium. The profile is designed so that the lateral anchoring legs can be either embedded in the tile adhesive layer beneath tile and natural stone coverings or integrated into the mortar bed for other covering materials, such as carpeting or vinyl. Therefore, the profile can move together with the respective covering assembly. The telescopic centre section can absorb movements of ±5 mm. The lateral pivot joints allow for the absorption of three dimensional movement. Schlüter®-DILEX-BT offers secure edge protection for surfaces exposed to foot traffic and light vehicular traffic and is, therefore, suited for use in warehouses, production facilities, shopping centres, airports, train stations and car parks or for coverings cleaned with machines. The profile version Schlüter®-DILEX-BTO can be used to create construction joints in wall areas, while Schlüter®-DILEX-BTS allows for retrofit installation in finished coverings. The profiles may be used in walls and ceilings made from gypsum board panels and can also be integrated directly into the plaster or render.

**Material**

The profile is available in the following materials:

A = Aluminum
AE = Anodised aluminium

**Material properties and areas of application**

The suitability of a proposed type of profile must be verified based on the anticipated chemical, mechanical and/or other stresses. Schlüter®-DILEX-ABT, made of aluminium, must be tested to verify its suitability if chemical stresses are anticipated. Cementitious materials, in conjunction with moisture, become alkaline. Since aluminium is sensitive to alkaline substances, exposure to the alkali (depending on the concentration and duration of exposure) may result in corrosion (aluminium hydroxide formation). Therefore, it is important to remove mortar, adhesive or grout residue from visible surfaces.
Schlüter®-DILEX-AEBT, made of anodised aluminium, features an anodised layer that retains a uniform appearance during normal use. The surface, however, is susceptible to scratching and abrasive stresses and may be damaged by grout or setting material. Therefore, it is important to remove mortar, adhesive or grout residue immediately from visible surfaces. Otherwise, the description for aluminium applies.

**Installation**

1. Select Schlüter®-DILEX-BT in accordance with tile thickness.
2. Using a notched trowel, apply tile adhesive to the area where the tile covering will end.
3. Press the perforated anchoring leg of Schlüter®-DILEX-BT into the adhesive bed and align.
4. Completely cover the perforated anchoring leg with tile adhesive.
5. Align the adjoining tiles and adjust them in such a way that the upper lip of the profile is flush with the tile. Note: The profile should not be higher than the tile, but flush or up to approximately 1 mm lower. All tiles in the profile area must be completely set. Always lay the uncut section of a tile against the profile.
6. The tile is set to the lateral joint spacer, which ensures a uniform joint of 1.5 mm.
7. Fill the joint cavity between the tile and the profile completely with grout and immediately remove the protective foil.
8. For installations into a mortar screed, strips of mortar, divided by an insulating strip, are placed on either side of the structural joint.
8a. Apply a contact layer consisting of dry set mortar or cement slurry over the mortar strips.
8b. Set Schlüter®-DILEX-BT into the contact layer, align and tap in.
8c. Apply enough screed material so that the surface of the covering to be used is flush with the upper lip of the profile. Select the profile height to ensure the anchoring leg is covered by approximately 15 mm of screed.
9. The installation of Schlüter®-DILEX-BT on walls and ceilings is essentially equivalent to floor applications.
10. Schlüter®-DILEX-BTS can be inserted into existing joint spaces. The joints must be at least 44 mm wide and 10 mm deep. The lateral anchoring legs are adhered to the existing covering with a suitable adhesive (e.g. epoxy resin), or the anchoring legs are drilled and screwed to the covering. Depending on the attachment or anchoring, Schlüter®-DILEX-BTS has limited mechanical load capacities. Flush installation is recommended for areas with heavy traffic loads.

**Maintenance**

Schlüter®-DILEX-BT requires no special maintenance or care. The oxidation layer on aluminium can be removed with conventional polishing agents, but will continue to form. Damaged anodised surfaces can be restored with paint.
Product Overview

**Schlüter®-DILEX-BT**
A = aluminium, AE = anodised aluminium
Length supplied: 2.50 m

<table>
<thead>
<tr>
<th>Material</th>
<th>A</th>
<th>AE</th>
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<tbody>
<tr>
<td>H = 8 mm</td>
<td>●</td>
<td>●</td>
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<tr>
<td>H = 10 mm</td>
<td>●</td>
<td>●</td>
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<tr>
<td>H = 12.5 mm</td>
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<tr>
<td>H = 15 mm</td>
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<td>H = 17.5 mm</td>
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<td>●</td>
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<tr>
<td>H = 20 mm</td>
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**Schlüter®-DILEX-BTO**
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Note: The different profile heights can also be combined as needed.

Floor to wall transition: (Schlüter®-DILEX-BTO):

![Diagram of floor to wall transition](image-url)
Application areas depending on local traffic load

- **Foot traffic**
  - Total weight

- **Shopping carts**
  - Total weight: max. 0.4 t

- **Cars**
  - Total weight: max. 3.5 t

- **Trucks**
  - Total weight: max. 40 t

- **Forklifts**
  - **Pneumatic tyres**
    - Total weight: max. 5 t
  - **Solid rubber tyres**
    - Total weight: max. 2.5 t

- **Pallet trucks**
  - **Hard rubber tyres**
    - Total weight: max. 1.0 t
    - (Pallet trucks must have tandem axles)

- Suitable
- Unsuitable