

Schlüter®-DILEX-BT

Constructional Separation

For areas subjected to high levels of stress

4.20

Product data sheet



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. The DILEX-BT profile range offers secure edge protection for coverings, also in places where such coverings are used with extensive foot and forklift traffic, e.g. in warehouses and production facilities, shopping centres, airports, railway stations, multi-storey car parks or floor surfaces maintained with cleaning 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

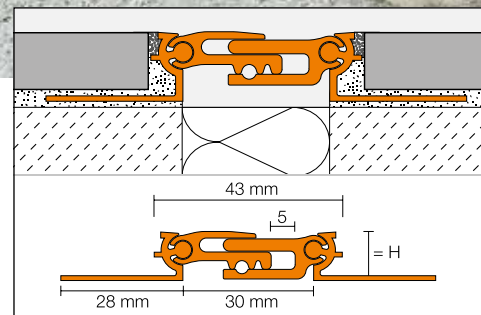
The profile is available in the following materials:

A = Aluminium

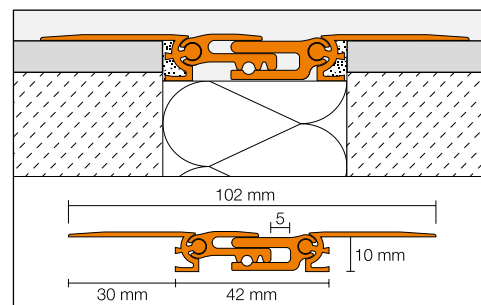
AE = Anodised aluminium

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-BT, 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-BT



Schlüter®-DILEX-BTS



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

Schlüter-DILEX-BT/-BTO

1. Select the profile height to suit the tile thickness and the method of installation.
2. Use a notched trowel to comb tile adhesive over the area where the profile is to be installed.
3. Press the trapezoid-perforated anchoring legs of DILEX-BT into the tile adhesive and align. Structural movement joints must align directly with existing joints in the substrate below.
4. Trowel additional tile adhesive over the whole surface of the trapezoid-perforated anchoring legs.
5. Firmly press the adjoining tiles into place and align them in such a way that the upper profile edge is flush with the tile (profile should not protrude over the surface of the covering; preferably, it should be approx. 1 mm below the top level of the covering). All tiles in the profile area must be solidly bedded. Always adjoin the uncut tile edge to the profile.
6. Lay the tile up to the side joint spacer, which ensures a uniform joint of 1.5 mm.
7. Completely fill the space between the tile and the profile with grout - then peel off the applied release film immediately.
8. DILEX-BT/-BTO is installed on walls or ceilings or their internal corners in the same way as on the floor.
9. For working into the screed layer, mortar strips must first be installed at the same level on both sides along the structural movement joint, which are then separated by an insulating strip.
- 9a. The mortar strips are covered with a contact layer of hydraulically setting adhesive mortar or a cement slurry.
- 9b. Schlüter-DILEX-BT must be installed, evened out and tapped into the contact layer.
- 9c. The height of the screed surface must be levelled so that the surface of the covering to be applied is flush with the upper edge of the profile. The height of the profile must be selected so that the screed covers the anchoring leg by approx. 15 mm.

Schlüter-DILEX-BTS

DILEX-BTS is used for retrofitting in the structural movement joint. The joint must be at least 44 mm wide and 10 mm deep. The lateral anchoring legs are stuck with a suitable adhesive (e.g. epoxy resin) over the entire surface of the existing covering, or the legs must be drilled and screwed onto the covering.

Depending on the attachment or anchoring, DILEX-BTS can only withstand limited mechanical loads. Flush installation is recommended for conveyor traffic.

Notes

DILEX-BT/-BTO/-BTS requires no special maintenance or care. The oxidation layer on aluminium can be removed by using a conventional polishing agent, but will form again. Damage to the anodised surfaces can only be made good by coating with lacquer or similar.

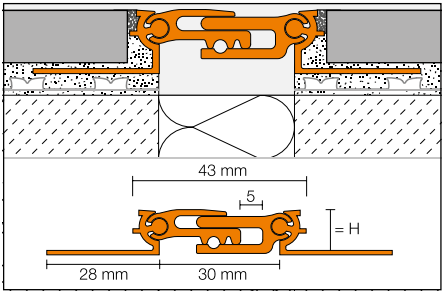


Product Overview

Schlüter®-DILEX-BT

A = aluminium, AE = anodised aluminium
Length supplied: 2.50 m

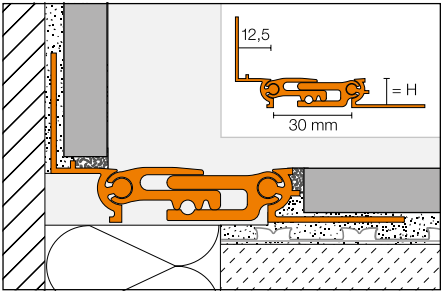
Material	A	AE
H = 8 mm	•	•
H = 10 mm	•	•
H = 12.5 mm	•	•
H = 15 mm	•	•
H = 17.5 mm	•	•
H = 20 mm	•	•



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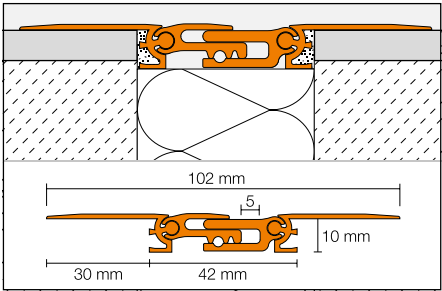
Material	A	AE
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Schlüter®-DILEX-BTS

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Material	A	AE
H = 10 mm	•	•



Note: The different profile heights can also be combined as required.



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



Pallet trucks

Hard rubber tyres

Total weight max. 1.0 t




(Pallet trucks must have tandem axles)

● Suitable

Schlüter-Systems KG  Schmölestraße 7 | D-58640 Iserlohn

 +49 2371 971-0  +49 2371 971-1111  info@schlueter.de  schlueter-systems.com

Schlüter-Systems Ltd  Units 3-6 Bardon 22 Industrial Estate | Bardon Hill | Coalville | Leicestershire | LE67 1TE

 +44 (0) 1530 813396  sales@schluter.co.uk  schluter.co.uk