

## Schlüter®-DILEX Movement joints are essential



Although they may not give the impression at first glance, tile, stone, screed, and even concrete are “living” materials. Even the most solid building components made of these materials are subject to constant form changes. Drying, varying traffic loads, changes in the moisture level, and temperature fluctuations lead to such form changes and can even overlap and compound one another.

To keep such form changes from causing problems, movement joints must be installed in screed constructions and floor assemblies (such as tiled floors).

They absorb the form changes and

keep the stresses that result from such movements to a minimum to protect the floor covering from damage.

Schlüter®-DILEX profiles by Schlüter®-Systems allow for the construction of such movement joints. In contrast to conventional silicone joints, the resulting joints are permanently maintenance free. They are installed in conjunction with the tile and stone, which ensures that no subsequent installation steps are necessary.



You can prevent this type of damage with Schlüter®-DILEX movement profiles.

## Movement joints have a variety of functions



Schlüter®-DILEX-BT  
Structural surface joint

**Structural joints** are joints that are required for static purposes to support the construction. They separate construction elements into individual moving segments. They cut through all weight bearing and non weight bearing parts of a building and must be continued through the screed construction and the floor assembly.



Schlüter®-DILEX-BWB  
Intermediate movement and control joint

**Control joints** divide larger screed or floor areas into smaller sections. Control joints must be continued from the screed through to the floor covering. Movement joints in the substrate may not be rigidly filled and covered with tiles or other flooring materials. The chosen movement and control joint must be able to handle the anticipated movement, and be appropriate for the application and anticipated loads for the environment.



Schlüter®-DILEX-EK  
Floor-to-wall perimeter movement joint

**Perimeter joints** are movement joints that are positioned at the outer edge of room along walls and along construction elements that penetrate the screed, such as piers and pillars. They reduce the transmission of impact sound and absorb the movement of the floor construction.

Perimeter joints may not be filled rigidly since this could result in sound bridges and constraints in the floor assembly.

## Movement joints have a variety of functions



Schlüter®-DILEX-BWA

**Connection joints** may be required between similar or different types of floor coverings (e.g. at inside wall corners). Connections to adjoining linings or construction components (such as door frames) are another application example. The joint depth usually matches the thickness of the tile covering.



Schlüter®-DILEX-HKS  
Cove profile for internal corners

**Variations of joint** characteristics include cove shaped profiles for floor-to-wall transitions or internal corners. They are installed to allow for easy cleaning. Even though this type of profile was originally designed for industrial applications, they are used in kitchens and bathrooms of domestic homes with increasing frequency.



Schlüter®-DILEX-AS

Schlüter®-Systems also has special solutions for flexible connections to construction components such as bathtubs, shower trays or windows that combine an aesthetically appealing design with functionality.

## Movement joint profiles by Schlüter®-Systems



Schlüter®-DILEX-BT

### Schlüter®-DILEX structural joint profiles

Schlüter®-DILEX-BT  
Schlüter®-DILEX-KSBT



Schlüter®-DILEX-KS

### Schlüter®-DILEX movement and control joint profiles

Schlüter®-DILEX-KS  
Schlüter®-DILEX-AKWS  
Schlüter®-DILEX-EDP  
Schlüter®-DILEX-BWB  
Schlüter®-DILEX-BWS



Schlüter®-DILEX-BWS

### Schlüter®-DILEX profiles for perimeter joints

Schlüter®-DILEX-EK  
Schlüter®-DILEX-HK  
Schlüter®-DILEX-HKS  
Schlüter®-DILEX-HKW  
Schlüter®-DILEX-RF



Schlüter®-DILEX-RF

### Schlüter®-DILEX connection and cove joint profiles

Schlüter®-DILEX-BWA  
Schlüter®-DILEX-KSA  
Schlüter®-DILEX-AS  
Schlüter®-DILEX-EKE  
Schlüter®-DILEX-EF



Schlüter®-DILEX-EKE

## Material and shopping checklist

To construct tile and stone assemblies with maintenance free perimeter joints and movement joints, you will need the following materials:

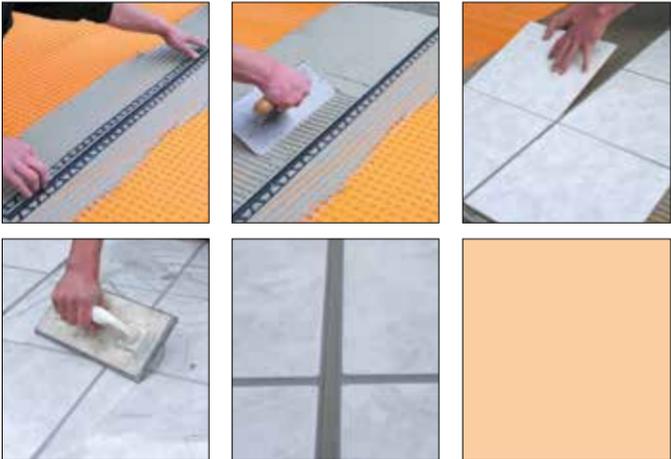
- .....linear metres of **Schlüter®-DILEX-BT or -KSBT** for structural joints
- .....linear metres of **Schlüter®-DILEX-KS, -AKWS, -EDP, -BWB or -BWS** for control joints
- .....linear metres of **Schlüter®-DILEX-EK, -HK, -HKS, -HKW or -RF** for perimeter joints in floor-to-wall transition areas
- .....linear metres of **Schlüter®-DILEX-DILEX-BWA, -AS, -EKE or EF** for connecting joints or internal corners
- Tile and stone
- Grout
- Tile Adhesive

Your retail store:

**Schlüter-Systems KG** · Schmölestraße 7 · D-58640 Iserlohn  
Tel.: +49 2371 971-261 · Fax: +49 2371 971-112 · www.schluter-systems.com

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Beveridge Lane · Coalville · Leicestershire · LE67 1TE  
Tel.: +44 1530 813396 · Fax: +44 1530 813376  
sales@schluter.co.uk · www.schluter.co.uk

## A small number of steps result in maintenance free movement joints



1. Select the Schlüter®-DILEX profile according to tile thickness.
2. Using a notched trowel, apply tile adhesive over the area where the profile is to be placed.
3. Press the trapezoid perforated anchoring leg of the Schlüter®-DILEX profile firmly into the setting bed and align. The profile must align with existing movement joints in the substrate.
4. Trowel additional tile adhesive over the trapezoid perforated anchoring leg to ensure full coverage.
5. Firmly press the adjoining tiles into place and adjust them so that the tiled surface is flush with the top of the profile. (The profile should not be higher than the surface of the tile, but rather 1 mm lower). In the profile area, tiles must be fully embedded in the tile adhesive.
6. Leave a joint of approximately 2 mm between the tile and the profile.
7. Fill the joint cavity between the tile and the profile completely with grout.

## A small number of steps result in maintenance free perimeter joints



1. Select the Schlüter®-DILEX-EK profile according to tile thickness.
2. Using a notched trowel, apply tile adhesive over the area where the trapezoid perforated anchoring leg of the profile is to be placed. Press the profile firmly into the adhesive bed and trowel additional adhesive over the trapezoid perforated anchoring leg to ensure full coverage.
3. Slide the floor tiles into the profile cavity.
4. Install the wall or skirting tiles onto the profile, leaving a joint of approximately 2 mm.
5. Fill the joint cavity between the tile and the profile completely with grout.

## Available variations of Schlüter®-DILEX

<b>Schlüter®-DILEX-KS</b>	
DILEX-AKSN = Aluminium	Length: 2.50 m
Profile height:	8 / 10 / 11 / 12.5 / 14 / 16 mm
DILEX-EKSN + EKSB = Stainless steel	
Length: 2.50 m	
Profile height:	2.5 / 4.5 / 6 / 8 / 10 / 11 / 12.5 / 14 / 16 / 18.5 / 21 / 25 / 30 mm
<b>Schlüter®-DILEX-AKWS</b>	
Aluminium	
Profile height:	8 / 9 / 10 / 11 / 12.5 / 14 / 16 / 21 mm
Length:	2.50 m
<b>Schlüter®-DILEX-BWB</b>	
Wide movement profile (10 mm)	
Profile height:	6 / 8 / 10 / 12.5 / 15 / 20 mm
Length:	2.50 m
<b>Schlüter®-DILEX-BWS</b>	
Narrow movement profile (5 mm)	
Profile height:	4.5 / 6 / 8 / 9 / 10 / 11 / 12.5 mm
Length:	2.50 m
<b>Schlüter®-DILEX-EK</b>	
Corner movement profile, two-piece	
Profile height:	8 / 11 / 15 mm
Length:	2.50 m
<b>Schlüter®-DILEX-EKE</b>	
Corner movement profile, one-piece	
Profile height:	8 / 9 / 11 / 13 / 15 mm
Length:	2.50 m

The profiles listed here are available in various grout colours. This list is only a sample. Please refer to our current illustrated price list PS (also available for downloading online) to see our full product range.

## Other system solutions

Would you like to know more about Schlüter® products and system solutions for tile installation? The following brochures are available from our distribution partners. For more information, please visit our website at [www.schluter.co.uk](http://www.schluter.co.uk).



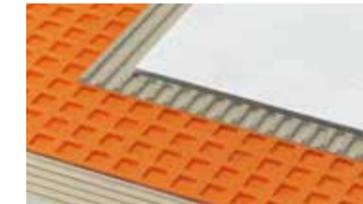
**Schlüter®-SYSTEMS for Balconies**  
Complete solutions for new construction and renovation of balconies and terraces



**Schlüter®-KERDI**  
Secure waterproofing in just a few steps



**Schlüter®-RONDEC, -QUADEC, -JOLLY**  
Edge protection and design options for tiled walls



**Schlüter®-DITRA 25**  
Waterproofing and uncoupling membrane for tile installations on problematic substrates (e.g., wood, plaster or cracked substrates)



**Schlüter®-DITRA-HEAT**  
Waterproofing and uncoupling membrane for the attachment of heating cables.



**Schlüter®-BEKOTEC-THERM**  
The ceramic thermal comfort floor



## Permanently maintenance free movement joints and control joints

