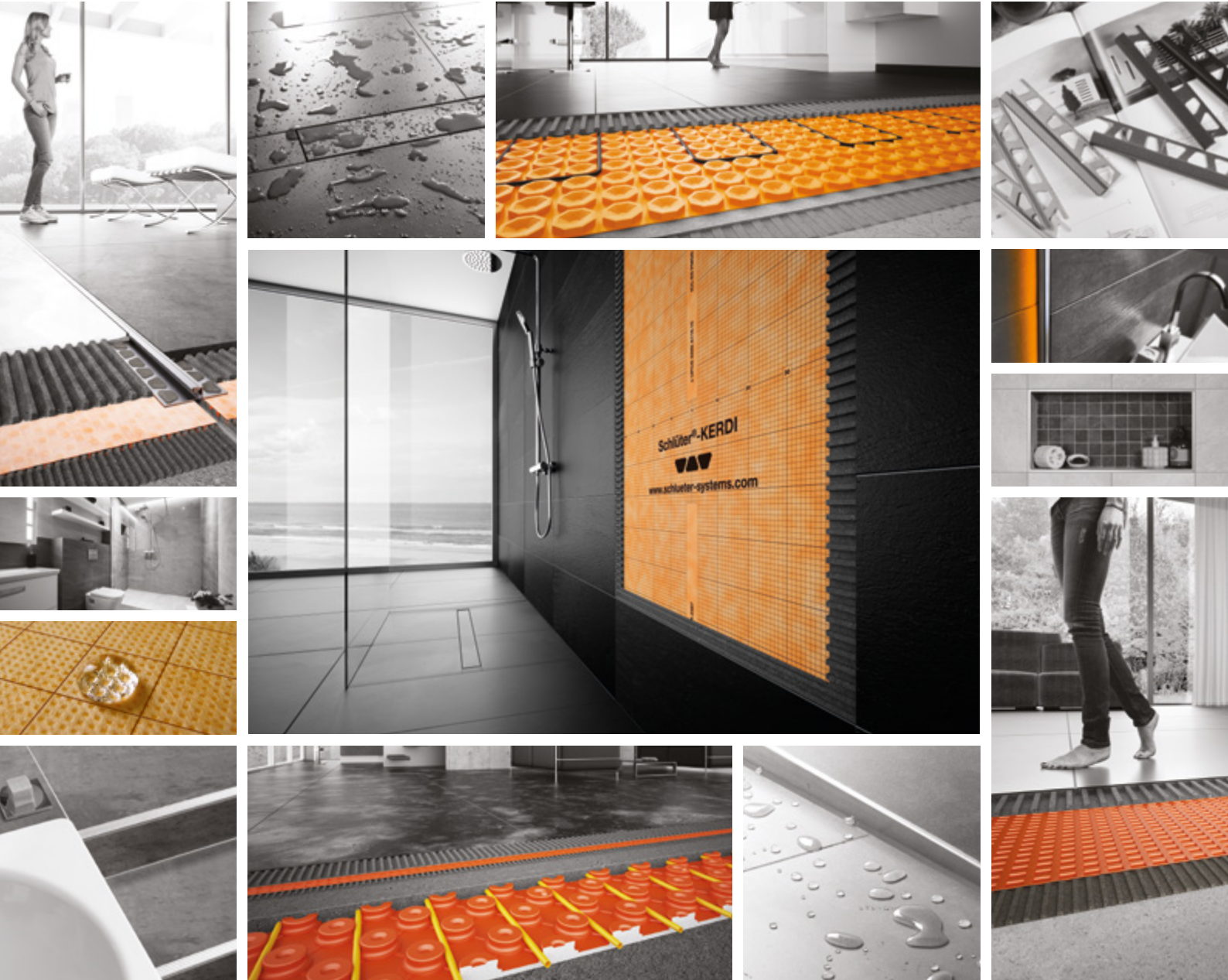


# Areas of Application

— SYSTEMS —



PROFILE OF INNOVATION

# Cohesion...

...when everything complements,  
enduring results are guaranteed.

If you're looking for products you can truly trust to support your tile and stone projects, you need look no further than Schlüter-Systems.

A carefully considered system from one, market-leading manufacturer should be the first port of call when specifying solutions for tile and stone; products have been designed to work together in perfect harmony, admin is reduced and there is a clear point of contact for any enquiries.

From profiles to underfloor heating, from movement joints to entire wetroom solutions; our products have long been trusted to protect installations in some of the most exclusive and luxurious projects across the UK and internationally.



## Wetrooms

For areas that are subjected to significant levels of moisture on a daily basis, an integrated system solution should be the specifier's first choice.

Poor moisture management in bathrooms, shower areas and wetrooms can cause significant damage—not only on a cosmetic, but also on a structural level. The use of waterproof as opposed to water-resistant materials is fundamental to the prevention of problems in the long-term.

The source of your waterproofing solution is another point for consideration. Tempting though it might be 'mix and match' products from different manufacturers, the fact remains that they are not designed to work together. For this reason, we would always recommend sourcing from one manufacturer who can cover all requirements.

With Schlüter, the specification of a complete CE Marked waterproofing solution couldn't be easier; the Schlüter®-WETROOM range consists of a versatile collection of products that offer an easy installation process and long-lasting protection, not to mention the freedom for creativity. What's more, with the use of one manufacturer, you'll know exactly who to approach for advice as your project progresses.



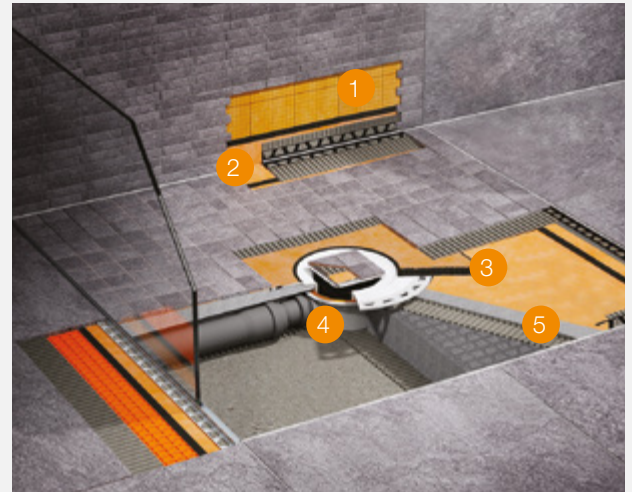
## Preparation – The Essential Foundation

Not all substrates are suitable for tile and stone, or for use in areas that endure water and humidity. The Schlüter®-KERDI range provides all the components—including backerboards, membranes, drains, sealing strips, corner pieces and adhesive—to swiftly construct a fully waterproof base upon which to install your chosen covering.

Materials that are only water-resistant require additional finishing processes, increasing labour costs and installation time. Having installed the waterproof backerboard Schlüter®-KERDI-BOARD, all that remains is to seal the connections and tiling can commence. In situations where Schlüter®-KERDI-BOARD has not been specified and the substrate requires waterproofing (eg. plasterboard), the polyethylene membrane Schlüter®-KERDI-200 offers an effective alternative. For areas that experience unrelenting vapour, such as steam rooms and saunas, the specialist membrane Schlüter®-KERDI-DS is recommended.

### Your solution for:

- ✓ Waterproofing connections
- ✓ Maintaining a low assembly height
- ✓ Creating level access areas
- ✓ Reducing installation time and cost



- 1 Schlüter®-KERDI-BOARD or Schlüter®-KERDI 200  
Waterproof backerboard, or waterproof membrane
- 2 Schlüter®-KERDI-KEBA and Schlüter®-KERDI-KERECK  
Sealing bands and corner sections
- 3 Schlüter®-KERDI-COLL-L  
Sealing adhesive
- 4 Schlüter®-KERDI-LINE or Schlüter®-KERDI-DRAIN  
Linear or point drain
- 5 Schlüter®-KERDI-SHOWER  
Pre-sloped shower base, ready for tile and stone

## The Designer Touch for Drains

Within the shower area, the tile and stone covering must be sufficiently sloped to allow for appropriate drainage. This is easily achieved with the various prefabricated levelling and shower tray components of the Schlüter®-KERDI-SHOWER range.

To complete the drainage solution, you can select from the point drain Schlüter®-KERDI-DRAIN, which provides a central point of drainage for the water, or the linear drain Schlüter®-KERDI-LINE, which allows for central, offset or perimeter placing.

Both options are available with an assortment of stainless steel grates, or with a tile and stone support grate should a more discreet finish be required. For the ultimate special touch, we also offer the opportunity for personalised engraving of linear drains, courtesy of the 'My Schlüter®-KERDI-LINE' service.





## Substrates

When it comes to preparing walls and floors for the installation of tile or stone, there are a number of different substrate options available on the market. Some options provide significant advantages in comparison to others and it can be hard to arrive at the right decision. Schlüter-Systems offers a comprehensive yet concise set of solutions for easy specification, time after time.



## Schlüter®-KERDI-BOARD

### The Waterproof Backerboard

No matter the nature of the project, the desire for a perfect finish is universal. This can only be achieved by creating a perfectly level and tile-ready substrate prior to installation of the covering material.

Schlüter®-KERDI-BOARD offers the ideal solution, being load bearing, thermally insulating and lightweight, as well as flat and even. It is a key component in the creation of CE Marked bonded waterproofing assemblies and is available in seven thickness options—ranging from 5-50mm.

Consisting of an extruded hard foam core panel with a special reinforcement material on both sides and waterproof fleece faces to finish, Schlüter®-KERDI-BOARD is also an eco-friendly alternative to fibreglass or cement-faced backerboards. The absence of a cementitious layer means that it costs less to transport and produces no dust when cut, making for healthier working conditions and avoiding the release of toxins into the wider environment.

#### Your solution for:

- ✓ Waterproofing
- ✓ Creating a flat and even substrate
- ✓ Rapid installation



## Schlüter®-BEKOTEC

### The Dependable Covering Assembly System

Saving on materials, installation time and height build-up is an important consideration for many a project, but in doing so it is also vital to maintain quality and reliability.

Schlüter®-BEKOTEC is a safe assembly system for crack-free, non-buckling and functionally safe screeds, designed to support coverings of tile, stone and other materials. The system is based on the patented studded polystyrene screed panel, Schlüter®-BEKOTEC-EN, which is directly installed on top of load-bearing substrates or conventional insulation panels. With the addition of heating pipes, the system becomes Schlüter®-BEKOTEC-THERM—the low-height, quick reacting hydronic underfloor heating system.

Both self-levelling and dry-pack screeds are available for use with the system and minimal amounts (only 8mm over the top of the studs) are required, making Schlüter®-BEKOTEC a more eco-friendly choice for screed construction. The system is also less labour intensive to install and eliminates the need for movement joints in the screed.

#### Your solution for:

- ✓ Lightweight screed
- ✓ Reduced curing times
- ✓ Rapid installation





## Schlüter®-DITRA 25

### The Original Uncoupling Membrane

Just like all other materials, tile and stone expands and contracts with temperature—more often than not at a different rate to the substrate upon which it is installed. This commonly results in a build-up of stress and cracking of the covering material.

The use of an uncoupling membrane alleviates the build-up of tension and prevents damage. Schlüter®-DITRA 25 is the market-leading solution in this arena, tried and trusted worldwide for over 30 years and installed between the substrate and your chosen tile or stone covering. Once in place, this polyethylene matting manages the lateral movements of the substrate and surface independently of each other via its grid structure of dovetailed square cavities, keeping tile and stone as perfectly crack-free as the day it was laid.

Schlüter®-DITRA 25 can be found in floor assemblies across the world, which is no doubt due to its versatility and reputation—it can be used in a variety of applications, both indoor and outdoor, and can even be used on problematic substrates.

#### Your solution for:

- ✓ Crack-free tile and stone
- ✓ Crack bridging
- ✓ Rapid installation



## Large Format Tiles

Apart from the special care that is required for thin large-scale tiles in terms of transport, safety and handling at the construction site, the load capacity of a system consisting of tile, adhesive, uncoupling system and substrate must be taken into consideration as well.

Following a comprehensive series of tests, Schlüter-Systems has given its general approval for the use of thin large-scale tiles from a thickness of 6mm over the uncoupling systems Schlüter®-DITRA 25, Schlüter®-DITRA-DRAIN 4 and Schlüter®-DITRA-HEAT. Schlüter-Systems also issues manufacturer-specific approvals for installing thinner tiles on the above-listed uncoupling membranes. However, this requires extensive testing and is only available for use in the following areas:

- ✓ Residential use
- ✓ Light commercial use

The comprehensive Schlüter®-DITRA range provides a complete guaranteed system solution for any application.



# Underfloor Heating

Once considered a luxury, unobtrusive heating such as that possible with underfloor and under wall systems is now a common feature in building projects. Schlüter-Systems offers both electric and hydronic (wet) underfloor heating systems that can easily be written into your specifications to enhance a flooring assembly.





## Schlüter®-DITRA-HEAT-E

The award-winning electric system, Schlüter®-DITRA-HEAT-E offers uncoupling and heating provision in one, reducing the number of layers needed to create a long-lasting heated floor assembly. The low assembly heights it creates mean it is suitable for use in renovation and new-build projects alike.

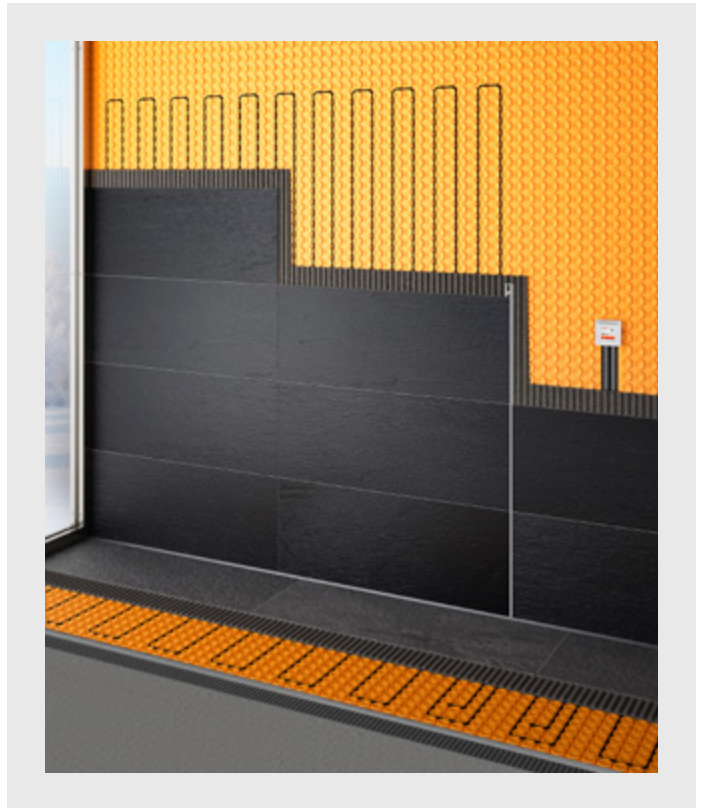
The Schlüter®-DITRA-HEAT-E system is a versatile choice for heating under tile and stone, and can be used on both walls and floors. Being part of the Schlüter®-DITRA family, it is also suitable for installation over problematic substrates.

The system can be specified with standard Schlüter®-DITRA-HEAT or advanced Schlüter®-DITRA-HEAT-DUO matting. Both matting options feature waterproofing, uncoupling, crack-bridging and vapour equalisation properties, with the latter offering the additional benefits of thermal breaking (reducing heat loss) and impact sound reduction of 13dB.

Schlüter®-DITRA-HEAT-E is easy to install, quick to warm up and is ideal for the creation of concentrated heating zones.

### Your solution for:

- ✓ Electric underfloor and underwall heating
- ✓ Crack-free tile and stone
- ✓ Rapid installation and heat-up
- ✓ Heating of specific areas or use in small rooms



## Schlüter®-BEKOTEC-THERM

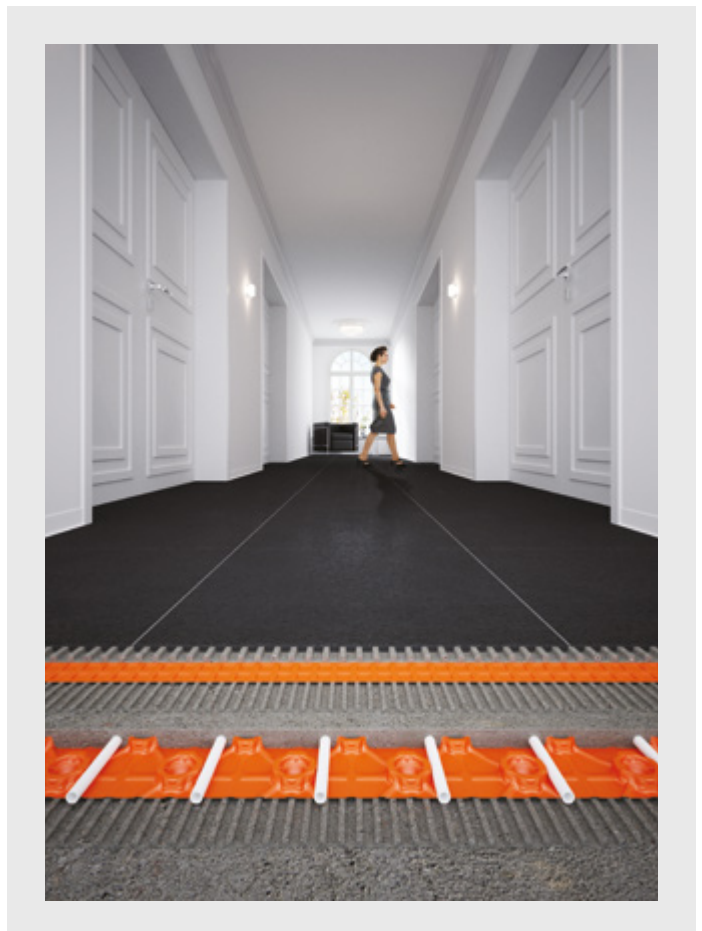
Schlüter®-BEKOTEC-THERM is a wet (or hydronic) underfloor heating solution that provides an economical in-screed heating solution, based on a modular screed system. Whereas traditional hydronic systems require around 65mm of screed thickness, the Schlüter®-BEKOTEC-THERM system can be installed with construction heights starting at just 20mm plus covering; this makes for considerable material and weight savings, as well as a quicker warm-up process. The low build-up heights mean that Schlüter®-BEKOTEC-THERM can be specified into both renovation and new-build projects.

The reduced amount of screed required means that Schlüter®-BEKOTEC-THERM operates effectively on a supply temperature of only 30°C, versus the 50-55°C required in some traditional systems. This means that it can be used with both conventional and renewable energy sources, and offers lower running costs. Being a primary heat source, the system also removes the requirement for radiators, allowing for greater design flexibility.

Schlüter®-BEKOTEC-THERM is easy to install, requires no screed joints and is the best choice for heating large areas or for 'whole-house' scenarios.

### Your solution for:

- ✓ Hydronic underfloor heating
- ✓ Lightweight screed
- ✓ Reduced curing times
- ✓ Rapid installation and heat-up
- ✓ Large-scale heating



# Profiles

Profiles may form a small part of your installation in terms of the visible area that they cover, but they play a crucial role in preventing damage. For the perfect blend of protection and aesthetic appeal, profiles should be designed into a project at the specification stage—when the utmost care has been taken in selecting every other detail, equal attention to this aspect really adds the finishing touch.

Schlüter-Systems' first product was Schlüter®-SCHIENE, the original edge profile for tile protection. Since the creation of this product in 1975, the range has expanded to include a wide range of other profiles, including those for transitions, walls and stair nosing, as well as movement joints.





## Profiles for Walls

### Schlüter®-JOLLY/-RONDEC and -QUADEC

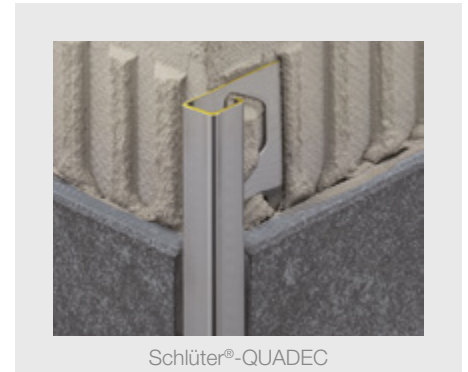
The Schlüter®-JOLLY/-RONDEC and -QUADEC families (square, curved and cubic profiles respectively) create a highly durable decorative finishing for wall coverings and skirtings made of tile and stone. They are available in a wide assortment of heights, materials and finishes to cater for all manner of project requirements. The Schlüter®-RONDEC and -QUADEC ranges also feature matching corner pieces for seamless handling of internal and external corners.



Schlüter®-JOLLY

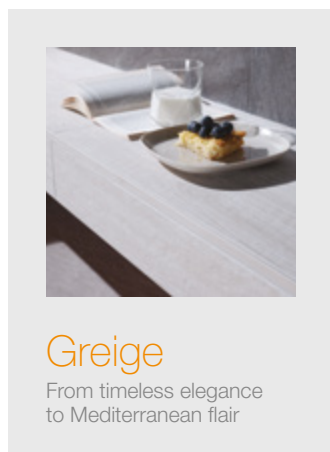


Schlüter®-RONDEC



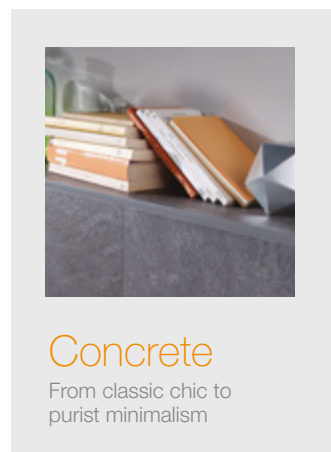
Schlüter®-QUADEC

In addition to the standard metal finishes available from Schlüter-Systems, a selection of on-trend textured finishes can be applied to the Schlüter®-JOLLY/-RONDEC and -QUADEC profiles, courtesy of Schlüter®-TRENDLINE. Options range from ivory, beiges and greys that are the perfect match to greige coverings or concrete, right through to rustic brown to tie in perfectly with wood and graphite metal finishes.



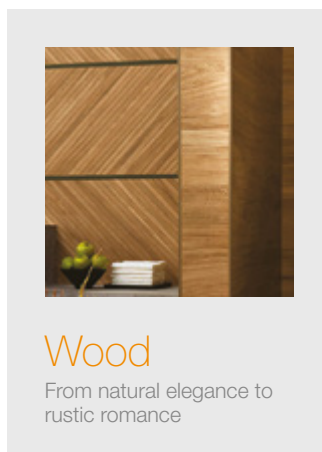
#### Greige

From timeless elegance to Mediterranean flair



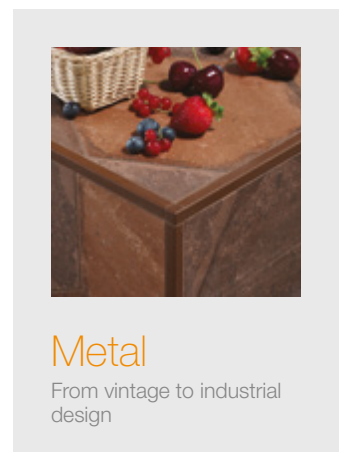
#### Concrete

From classic chic to purist minimalism



#### Wood

From natural elegance to rustic romance

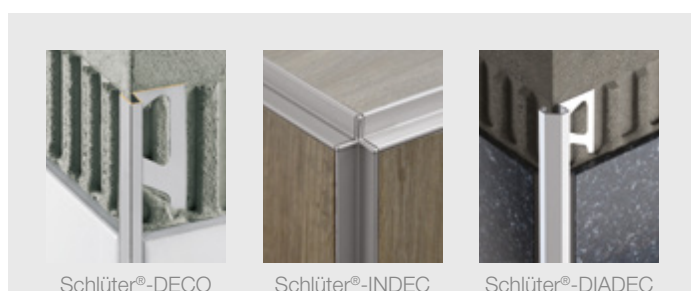


#### Metal

From vintage to industrial design

### Schlüter®-DECO/-INDEC/-DIADEC

Profiles in the Schlüter®-DECO/-INDEC and -DIADEC families offer some additional decorative options for wall finishing, with a focus on allowing specifiers to incorporate light and shadow accents.



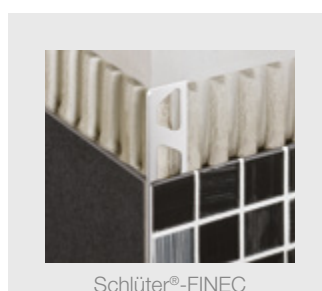
Schlüter®-DECO

Schlüter®-INDEC

Schlüter®-DIADEC

### Schlüter®-FINEC

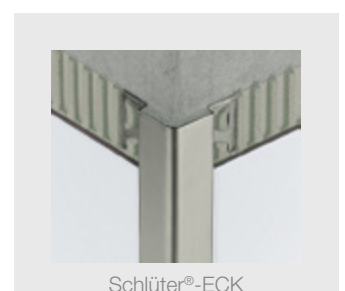
Schlüter®-FINEC offers near-invisible edge protection for the corners of tile and stone installations, satisfying the demands of both tile protection and design aesthetics. The profiles are particularly ideal for use with glass mosaics and thin-format tiles as they are extremely slim-line.



Schlüter®-FINEC

### Schlüter®-ECK

Schlüter®-ECK is your solution in achieving heavy-duty corner finishing for walls, in areas where strict hygiene requirements must be met but where aesthetic appeal is still desired. The profiles of the series are available in V2A and V4A stainless steel to suit.



Schlüter®-ECK

## Schlüter®-DESIGNLINE and -QUADEC-FS

These profiles are used to create neat border accents within wall coverings of tile and stone. Schlüter®-DESIGNLINE offers a collection of metal border profiles in various metal finishes and textures and Schlüter®-QUADEC-FS provides edge finishing for borders and ornamental tile segments. Matching profiles for the Schlüter®-DESIGNLINE range can be found in the Schlüter®-RONDEC and -QUADEC ranges, enabling a beautifully co-ordinated finish.



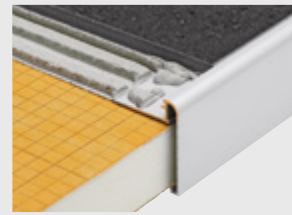
Schlüter®-DESIGNLINE



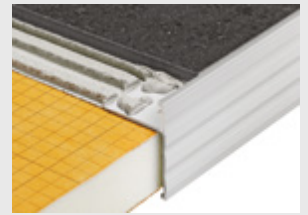
Schlüter®-QUADEC-FS

## Schlüter®-RONDEC-STEP and -SCHIENE-STEP

These profiles provide edge finishing for kitchen counters or other surfaces with tile and stone coverings.



Schlüter®-RONDEC-STEP



Schlüter®-SCHIENE-STEP

## Schlüter®-DESIGNBASE

Schlüter®-DESIGNBASE is a decorative skirting range that now includes an option to run cables through; Schlüter®-DESIGNBASE-CQ allows cables to be hidden and is available in matt-white anodised and stainless steel effect aluminium finishes. Another offering from the range is Schlüter®-DESIGNBASE-QD, which can be combined with Schlüter®-LIPROTEC to provide light for skirting and for borders within a wall.



## Schlüter®-LIPROTEC

Schlüter®-LIPROTEC is an intelligent lighting concept that combines lighting and profiles within the tile and stone covering. A choice of indirect or direct light is available, with Schlüter profile technology, allowing you to emphasise curtain walls and illuminate stairways, foyers, bathrooms and more.

The Schlüter®-LIPROTEC RGB+W LED strips allow for coloured and white LEDs on a single strip, giving the ultimate freedom for creating coloured light and temperature-controllable white light, which can be selected from 2500 K to 6500 K. The system can be programmed from a choice of 16 million colours, easily selected via a Bluetooth app and remote control.

Suitable for moisture-rich rooms, the LED strips are completely encapsulated and conform to IP67 protection rating.



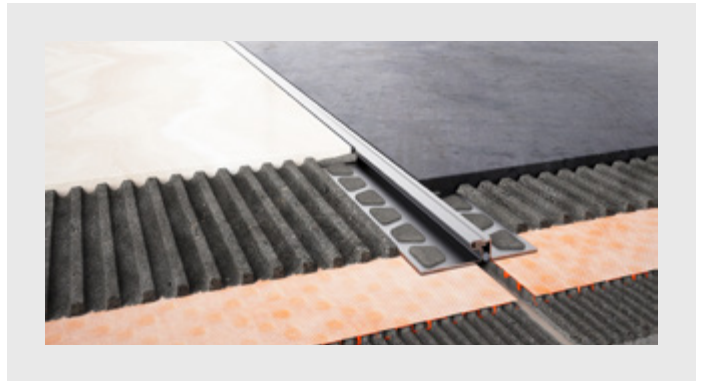


## Profiles for Floors

### Schlüter®-DILEX

An excellent range of movement joints is available courtesy of the Schlüter®-DILEX series, which offers specifiers a maintenance-free solution to managing the stresses brought about by the expansion and contraction of building materials. When installed in-line with BS5385, these movement joints prevent movement in the screed or substrate from transferring through to the surface and cracking the covering material.

The combined use of the Schlüter®-DITRA 25 uncoupling membrane and Schlüter®-DILEX movement joints provides a complete system solution to manage stresses caused by movement and ensure a lasting, reliable and crack-free installation.



### Schlüter®-SCHIENE

Schlüter®-SCHIENE, the original finishing threshold strip or diminishing profile, provides edge protection and finishing for coverings of tile and stone.

Profiles of the Schlüter®-SCHIENE series can also be used in conjunction with other covering materials and applications, including carpet, parquet, laminates and cold-cured resin coverings.

Schlüter®-SCHIENE profiles higher than 6mm (with the exception of Schlüter®-SCHIENE-E) feature an integrated joint spacer, establishing a defined grout cavity between the tile and profile.



### Schlüter®-RENO

Schlüter®-RENO enables smooth transitions between floor coverings, chiefly between those of different heights.

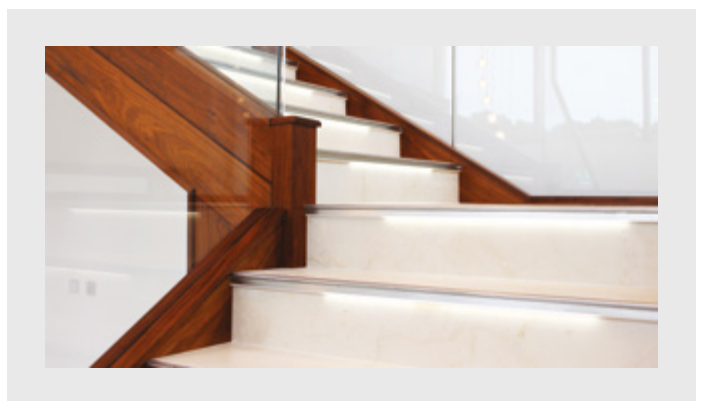
Profiles of the Schlüter®-RENO series eliminate trip hazards and provide edge protection for the floor covering. Standard one-part and variable two-part profiles are available, in a variety of metal finishes.



### Schlüter®-TREP

The slip-resistant design and visual prominence of Schlüter®-TREP stair-nosing profiles improves safety on staircases, helping to keep the edges of the tile or stone covering intact. Although it is often best to include stair-nosing profiles in the original specification process, they are not necessarily considered at the time—to this end, there are also Schlüter®-TREP variants suitable for retrofit.

A multitude of design options are available to increase the visual appeal of staircases, thanks to the wide variety of different profile types, colours and finishes available within the Schlüter®-TREP range. The slip-resistant design and excellent visibility also means that Schlüter®-TREP profiles improve stair safety in addition to functioning as DDA-compliant solutions.



## External Applications

With the intelligent covering assemblies of Schlüter-Systems, you can create beautiful, long-lasting tile or stone balconies, patio areas and roof terraces. A variety of solutions are available to satisfy requirements for bonded waterproofing, drainage and guttering in your building projects and can be easily complemented with profiles suitable for outdoor use. We also offer a loose-lay pedestal system for easy creation of unbonded assemblies.

Balconies and terraces are subjected to extreme temperature fluctuations and must withstand rain, snow and frost in addition to more moderate conditions. It is vital to put the proper protection measures in place to prevent deterioration.

Adequate drainage is a key provision for balconies and terraces; once water is present, it must be able to drain away from the building. Schlüter-Systems offers a number of solutions to this issue, with the exact selection dependent on environmental and construction factors.





## External Applications

Though terraces are more structurally stable than balconies, both require reliable support from a guaranteed waterproofing and drainage solution, discreetly installed beneath the tile or stone covering.

Terraces are usually substantially bigger than balconies and are often situated immediately above living space, meaning that ineffective waterproofing and drainage can quickly affect other areas of a building. Inadequate waterproofing provision in a balcony, a structure standing proud from a building, can compromise the safety of people both on and below the feature.

The type of drainage system to use depends on the assembly; our dedicated specification consultants can help you to specify the correct covering assembly for your application to ensure a lasting tile or stone finish for your balcony or terrace installation.

## Membranes and Covering Assemblies

Ever the versatile product, Schlüter®-DITRA 25, the original uncoupling membrane of 30 years' standing, is also suitable for use on balconies and terraces. It serves as a waterproofing membrane, vapour pressure equalisation layer to accommodate moisture and an uncoupling layer for problematic substrates. Schlüter®-DITRA-DRAIN and Schlüter®-TROBA are passive capillary drainage layers for use above a horizontal waterproofing layer, the former also offering uncoupling provision and the latter ensuring effective drainage of seepage below a screed or gravel layer.

Schlüter®-BEKOTEC-DRAIN is a thin and safe cover assembly system specifically designed for outdoor use, that creates damage-free and functionally safe floating screeds.

## Guttering and Drainage Systems

The Schlüter®-BARA series offers a selection of finishing and balcony-edge profiles to protect balconies and terrace's installations. When coupled with the Schlüter®-BARIN guttering systems, an attractive finish and functional drainage are ensured.

## Pedestal System

Schlüter®-TROBA-LEVEL is a minutely adjustable pedestal system for the support of loose-lay pavers in exterior areas. The latest option available from Schlüter for the creation of unbonded assemblies, it opens up a host of new project possibilities for specifiers, whilst also being fully compatible with Schlüter's other balcony and terrace solutions.

The Schlüter®-TROBA-LEVEL system is stackable and can be combined to form heights between 3mm – 1000mm, making it adaptable to a wide range of project situations. Broadening the possibilities for flow and transitions between different landscape elements, the system can also accommodate a slope of up to 10%.

Manufactured in polyethylene and polypropylene, the Schlüter®-TROBA-LEVEL is also UV resistant, recyclable, durable (each pedestal supports >1000kg) and highly temperature resistant (-40°C – +100°C).







PROFILE OF INNOVATION

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