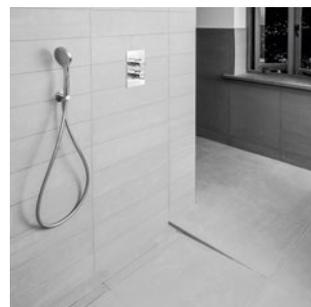
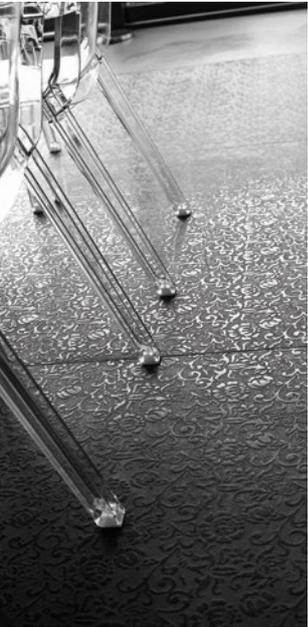


# Residential

— REFERENCES —



PROFILE OF INNOVATION

Comfort...

...the security to realise the  
most personal of projects

Those who choose to create their own home or stake their interest in the latest high-profile development are looking for a long-term investment that will become entwined in their existence. As such, the solution reached must achieve the perfect balance of personality and practicality.

The selection of materials that satisfies individual tastes is one concern, but no matter the choice of tile and stone, Schlüter can assist.

## Residential Highlights

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From eco-friendly rural dream houses to exclusive luxury urban developments, Schlüter-Systems has played a part in creating hundreds of homes.

The variety of products we carry means that we can protect and enhance tile and stone throughout a property – in wetrooms, kitchens and living areas, as well as in exterior features such as balconies and terraces. In the following pages, we give you a taste of some of the projects we've been involved with.



## Case Study

**Project:** *Scotts on the Rocks, Newcastle (N.I.)*

**Description:** The owner of a leading Northern Irish tile supplier was responsible for the creation of this unique ocean-facing property, built at the foot of the highest peak in the Mountains of Mourne. The home benefits from amazing views out to sea and is built on two levels. The main level houses a kitchen, dining room, living room, bathroom, bedroom and sheltered sea terrace; a second, downstairs level contains space for family and friends to stay and be entertained.

Schlüter-Systems' environmentally friendly wet underfloor heating system, Schlüter®-BEKOTEC-THERM, was installed throughout the property.

**Application:** Uncoupling, Underfloor Heating

**Specified:** Schlüter®-BEKOTEC-THERM, Schlüter®-DITRA 25

**Insight:** Having worked with the Schlüter®-BEKOTEC-THERM system in the course of his everyday job, David Scott, of David Scott Tiles in Belfast conducted the ultimate test to see if it lived up to its claims.

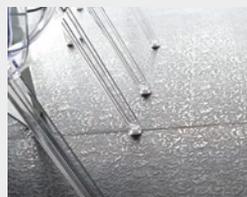
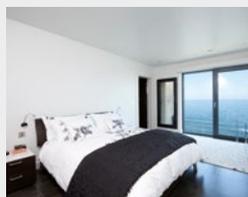
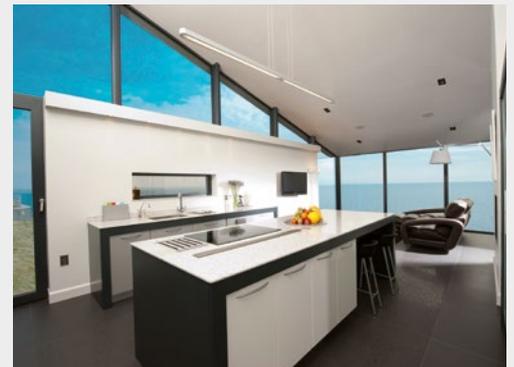
"I like to test products out myself by installing them in my own property as it then helps me to sell them with even more confidence", comments David, "Schlüter®-BEKOTEC-THERM is an excellent efficient product and it's very easy to install. The depth of screed is what sets this apart from other similar underfloor heating systems. It requires a 30% thinner screed which helps distribute heat much faster and therefore uses less energy.

"This happens because the thin patented structure of the ceramic thermal floor allows it to respond to temperature changes that much quicker thanks to the connected air channels within the Schlüter®-DITRA membrane", continues David, "That's why whenever we install Schlüter®-BEKOTEC-THERM at David Scott Tiles we insist that Schlüter®-DITRA matting is also installed, as we know this will ensure the very best results possible."

Ian Knifton, Head of Technical at Schlüter-Systems Ltd, comments, "The modular system that makes up Schlüter®-BEKOTEC-THERM stands out as being economical, effective and energy efficient, which makes it the ideal underfloor heating system to install. The fact that a leading industry expert has installed it in his own property, and a stylish dream home at that, speaks volumes about the product's quality and suitability for any location.

"Its low supply temperature of approximately 30°C, compared to the more conventional 50°C or the 70-90°C in some radiator systems, also means Schlüter®-BEKOTEC-THERM is extremely effective both with conventional heat generation methods and regenerative energy sources such as heat pumps or solar panels", adds Ian, "This makes it ideal for new-build properties and other 'grand designs' similar to Scotts on the Rocks."

From a construction perspective, Schlüter®-BEKOTEC-THERM is quick to install due to less material being used than in other systems. As well as its performance and ease of use, what makes Schlüter®-BEKOTEC-THERM really stand out is the five-year warranty that covers the whole floor assembly, therefore adding additional safety and benefits to this innovative system.





## Project Summary

**Project:** *The Moonstone Project, Cheltenham*

**Description:** Winner of Home Building and Renovating's 2010 award for 'Britain's Best Eco-Home', this luxury house in the Cotswolds has multiple levels and boasts six bedrooms, an indoor swimming pool, cinema and games room. It also has a U value of 0.07, giving it a passivhaus rating. The revolutionary, award-winning underfloor heating system, Schlüter®-BEKOTEC-THERM, was the natural choice for one of the UK's greenest self-build projects.

**Application:** Uncoupling, Underfloor Heating

**Specified:** Schlüter®-BEKOTEC-THERM, Schlüter®-DITRA 25

**Insight:** Wet underfloor heating system, Schlüter®-BEKOTEC-THERM, was installed under all 1,470 square metres of flooring in this impressive property. Jerusalem Gold stone tiles were used internally throughout the whole house, as well as on three exterior balconies. To uncouple the Jerusalem Gold stone tiles from the Cemex Supaflo anhydrite screed, the Schlüter®-DITRA 25 uncoupling membrane was specified above the underfloor heating system.

Because 80% of the house's energy is generated from flat plate solar collectors, with the remainder being generated by a ground source heat pump, the thin screed layer (and the resulting lower temperatures needed to heat it) mean the heat pump works more efficiently than with conventional underfloor heating systems. And with 1,470 square metres of flooring to heat, owner John Croft said it was essential that the temperature was easy to regulate. There was an added bonus for the heating contractors, who found the entire system quick and simple to install.



**Project:** *Chigwell Grove, Essex*

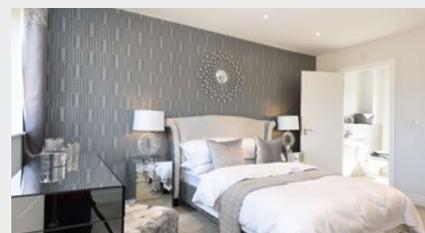
**Description:** An Essex-based project centring on the provision of a much-needed National Autistic Society (NAS) school saw the installation of electric underfloor heating system, Schlüter®-DITRA-HEAT-E-DUO, into the 60 houses built to off-set its costs. At the centre of the project was the idea to build the school without using public funds. As a result, a carefully considered gated community of three, four and five-bed luxury houses – Chigwell Grove – was planned to enable its construction. The Green Belt site on which the initiative has been realised included former training pitches for Premier League football team Tottenham Hotspur and was sensitively redeveloped, with the school as its focus.

**Application:** Underfloor Heating

**Specified:** Schlüter®-DITRA-HEAT-E-DUO

**Insight:** Schlüter®-DITRA-HEAT-E-DUO was installed across the bathrooms and ensuites of the houses in the Chigwell Grange development, beneath both 900 x 450mm and 600 x 600mm porcelain tiles. Three different sized kits were used according to the size of the rooms, minimising any waste product.

"We found the Schlüter®-DITRA-HEAT-E-DUO system very easy to install – much easier than mesh-based systems", says Paul Clough, Project Manager at PJ Ceramics, "In fact as a company we have recently switched completely to membrane-based systems – they're far more versatile as you can route the cable around features rather than heating entire floors at additional expense".



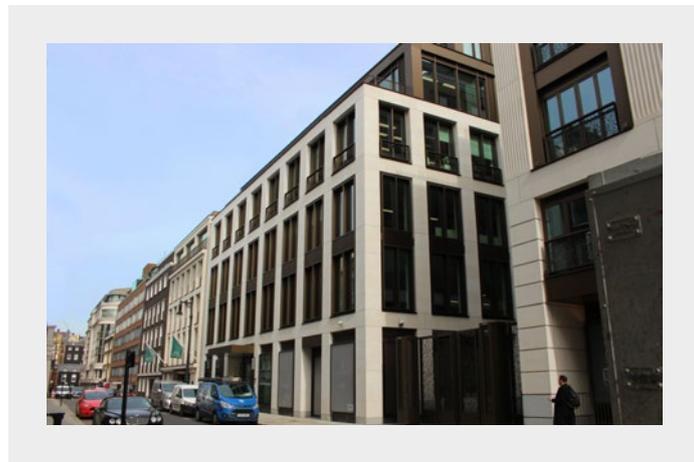
## Project Overviews

**Project:** *Clarges, London*

**Description:** £228 million Mayfair mixed use development, with 34 'super-prime' apartments, capturing views of Green Park and Buckingham Palace. Schlüter-Systems provided a waterproofing system utilising both its standard and pre-grooved waterproof backerboards, as well as supplying uncoupling matting.

**Application:** Uncoupling, Wetrooms

**Specified:** Schlüter®-DITRA 25, Schlüter®-KERDI-BOARD, Schlüter®-KERDI-LINE

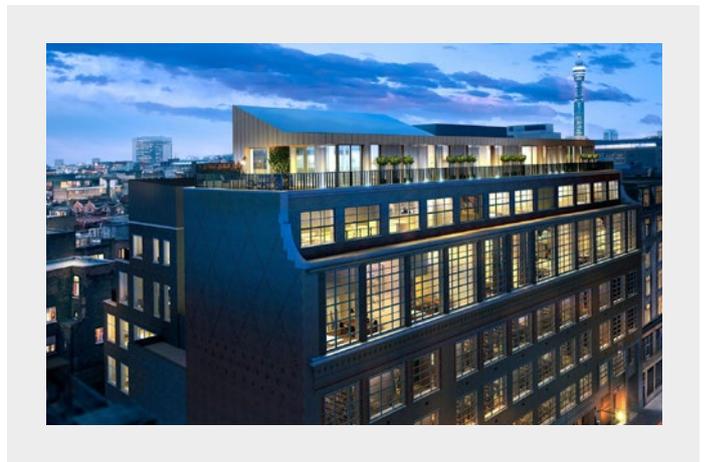


**Project:** *St. Martins Lofts, London*

**Description:** The designers of an exclusive collection of apartments in Soho, situated in an iconic former university building, selected underfloor heating and uncoupling systems from Schlüter-Systems as part of superior quality interiors for its residents. The uncoupling system was also specified in the roof terraces of the project to handle drainage and protect the assembly.

**Application:** Uncoupling, Underfloor Heating

**Specified:** Schlüter®-DITRA-DRAIN and Schlüter®-BEKOTEC-THERM

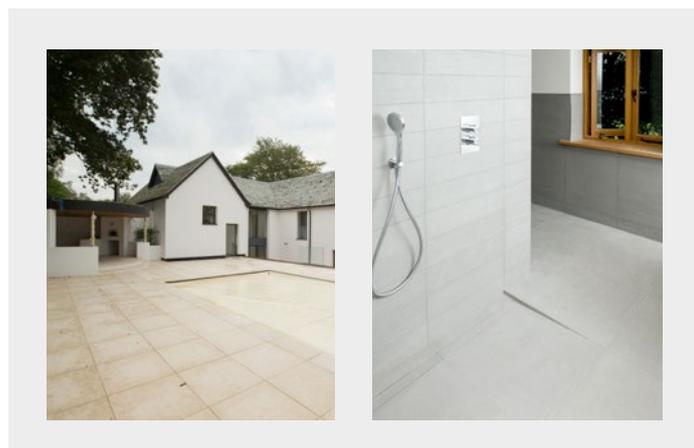


**Project:** *Chitterman House, Markfield*

**Description:** In this self-build project, Leicestershire contractor Pearson Properties was able to seamlessly combine the history of a 19th century building with cutting edge environmental benefits, using products from Schlüter-Systems.

**Application:** Balconies and Terraces, Movement Joints, Profiles, Underfloor Heating and Wetrooms

**Specified:** Schlüter®-BEKOTEC-THERM, Schlüter®-DILEX, Schlüter®-DITRA-DRAIN, Schlüter®-QUADEC, Schlüter®-SCHIENE, Schlüter®-KERDI-DRAIN, Schlüter®-KERDI-BOARD, Schlüter®-KERDI-LINE, Schlüter®-KERDI-SHOWER,

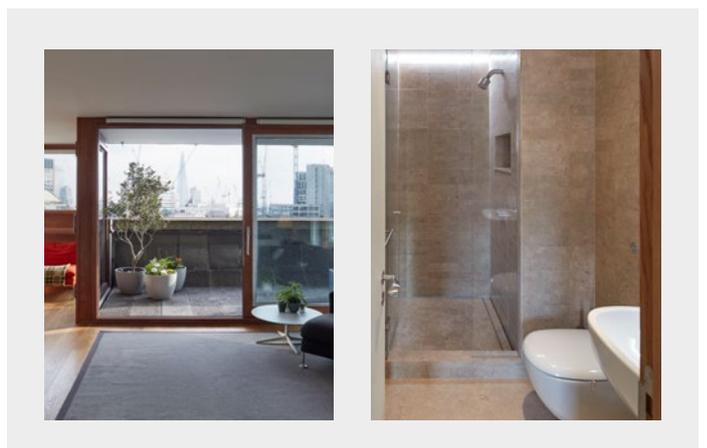


**Project:** *Barbican Tower Apartment, London*

**Description:** Renovation of an eleventh floor four-bedroom Barbican tower apartment. Quinn Architects' interior project was a personal study of living on the estate, with every detail being designed, prototyped and manufactured in a Camberwell workshop rented by the practice. Schlüter's linear drainage system was specially selected due to its ease of installation and subtle finish.

**Application:** Wetrooms

**Specified:** Schlüter®-KERDI-LINE





PROFILE OF INNOVATION

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