

StoCleyer B

Mineral brick slips optimised for insulation systems

Facade



StoCleyer B is a quick and easy solution for creating insulated facades with an authentic brick look.

With a multitude of colours and textures, StoCleyer B opens up a wide range of design possibilities. The material properties of the mineral brick slips, which have been optimised specifically for insulation systems, enable your designs to be transformed into efficient and reliable solutions. And all this regardless of whether the brick slips are being used on an external wall insulation system or a rainscreen cladding facade.



StoCleyer B: The contemporary solution for brick slip facades

StoCleyer B mineral brick slips, which have been optimised for facade insulation systems, make it incredibly easy to combine the powerful look of a brick facade with contemporary thermal performance.

It takes a lot of time and money to create insulated brick slip facades. Bonding brick slips to an insulation system provides a cost-effective and structurally straightforward alternative to traditional double-leaf construction. Our StoCleyer B mineral brick slips are the perfect example of this theory in practice. The extremely lightweight and flexible material, 90% of which is made from mineral components, can be used not only on all our StoTherm external wall insulation systems, but also on StoVentec R rainscreen cladding facades. The underlying external wall insulation system or StoVentec rainscreen is specified and installed in exactly the same way as usual.

The material thickness of just 4 to 8mm opens up new design possibilities and easy combination with Sto render finishes or StoDeco facade elements. Field demarcation joints which are often required with clay-based slips are not required either, saving installation time and reducing design complexity. The result is a modern brick slip facade which will grow old gracefully.

All the benefits at a glance



Simple and fast application

- Single application cycle for bonding and pointing
- Ready-mixed adhesive and pointing mortar in a pail - no water or mixing required
- Cut with a knife or snips for part-bricks
- No field demarcation joints



Authentic aesthetics and light weight

- Hand-crafted, traditional brick appearance
- Less than a third of the weight of clay brick slips leads to a lighter, cheaper structure



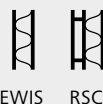
Quick

- No drying times between bonding and pointing
- Apply ready-mixed adhesive, position the slip, smooth out the joint, done !



Sustainability

- 10 x the area on a single truck load when compared with clay slips - huge reduction in greenhouse gases, particulates and traffic volume
- Dried for 6 hours at 60°C instead of being fired for days at 700°C +
- Far lower embodied energy



Free system selection

- Can be used on all StoTherm systems and StoVentec R

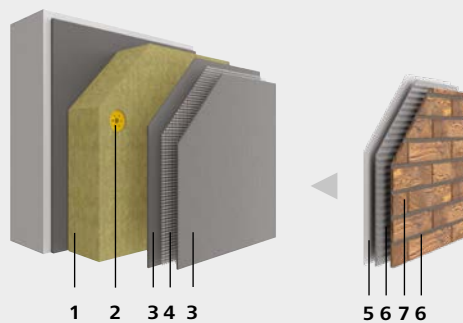
StoCleyer B can be used on all Sto insulation systems; it does not require complex additional measures such as field demarcation joints. Similarly, no drying time is required between bonding and pointing. A utility knife is all you need to cut the StoCleyer B mineral brick slips to size.

Sto insulation systems with StoCleyer B

StoTherm External wall insulation systems

Our tried-and-tested systems are different because they combine insulant with organic or mineral base coat. As a result, you can provide a flexible response to the diverse requirements of your project without having to forego the security of a tested solution with technical approval.

- StoCleyer B is compatible for full-surface use on all StoTherm systems
- The thickness of the material makes it ideal for combining with Sto finishing renders and StoDeco



Insulating layer

- 1 — Mineral Fibre or EPS insulation
- 2 — Fixing

Reinforcing layer

- 3 — Base coat
- 4 — Reinforcement

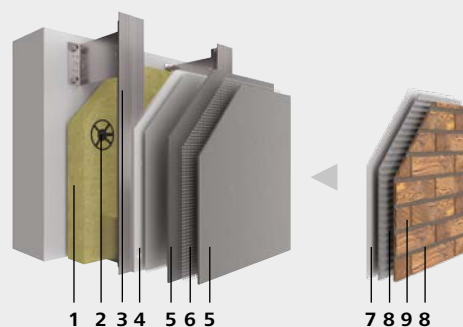
Material layer

- 5 — StoPrimer (used with mineralic base coat only)
- 6 — Sto Bonding and pointing mortar
- 7 — StoCleyer B mineral brick slips

StoVentec Rainscreen cladding facades

The StoVentec system combines the physical advantages of a ventilated rainscreen cladding facade system with virtually unlimited colour shade, texture, and material options.

- StoCleyer B can be used to create modern brick slip facades on rainscreen cladding facade systems
- The highly flexible material enables curved surfaces to be created



Insulating layer

- 1 — Mineral fibre rainscreen insulation
- 2 — Insulation fasteners

Carrier layer

- 3 — Sub-construction (wall brackets and T-profiles)
- 4 — StoVentec carrier board, screw fixing

Reinforcing layer

- 5 — Base coat
- 6 — Reinforcement

Material layer

- 7 — StoPrimer (used with mineralic base coat only)
- 8 — Sto Bonding and pointing mortar
- 9 — StoCleyer B mineral brick slips



Heritage impressions or modern classics - quality guaranteed

StoCleyer B mineral brick slips are available in over 130 designs that cover everything from hand-thrown, farmhouse styles to modern water-struck designs.

Tested on most of our legendary external wall insulation and rainscreen systems, StoCleyer B provides a durable, hard wearing surface, resisting weather and impact (the same as real brick) yet can also gain a similar patina to that of brick over time. StoCleyer B offers the quality impression of real brick.

Furthermore, if you cannot find a brick that suits amongst our extensive selection, let us create one just for you or match to one of your existing favourites.



Image on right:
Riverside, Kent, UK
Contractor: Bouygues
Design: PRC Group,
supported by Bryden
Wood
Execution: Build-Therm
Services
Sto expertise:
StoTherm Mineral;
StoCleyer B
Photo: Simon Turner, UK

Image left:
Groene Linten, NL
Building owner: Pré
Wonen, Velsbroek,
NL
Design: Klous + Brand-
jes Architecten bna,
NL
Sto expertise:
StoCleyer B 71500
Photo: Ronald Tilleman
Photography, Rotterdam, NL





Sustainable advantages

StoCleyer B mineral brick slips offer significant advantages in sustainability over traditional clay brick construction and even clay brick slips.

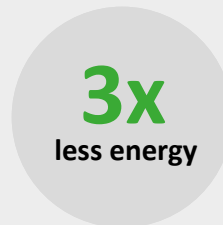
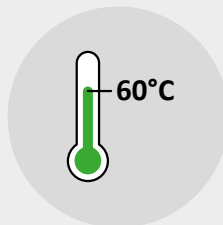
With 90% mineral content, they are dried over a day or so at 60°C, rather than dried at up to 120°C and then fired at high temperature over several days, (where kiln temperatures can reach 1000°C), as with clay products. Therefore, three times less energy is used and five times less CO₂ produced.

The story continues with the transport of the finished product. StoCleyer B mineral slips are just 5mm thick and lightweight. We can pack up to 6000m² on a single truck.

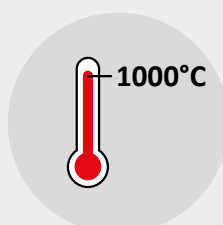
The figure for full clay bricks varies between 100 and 200m², meaning transport of StoCleyer B leads to at least thirty times less CO₂ production, and thirty times less diesel particulate production due to transport.

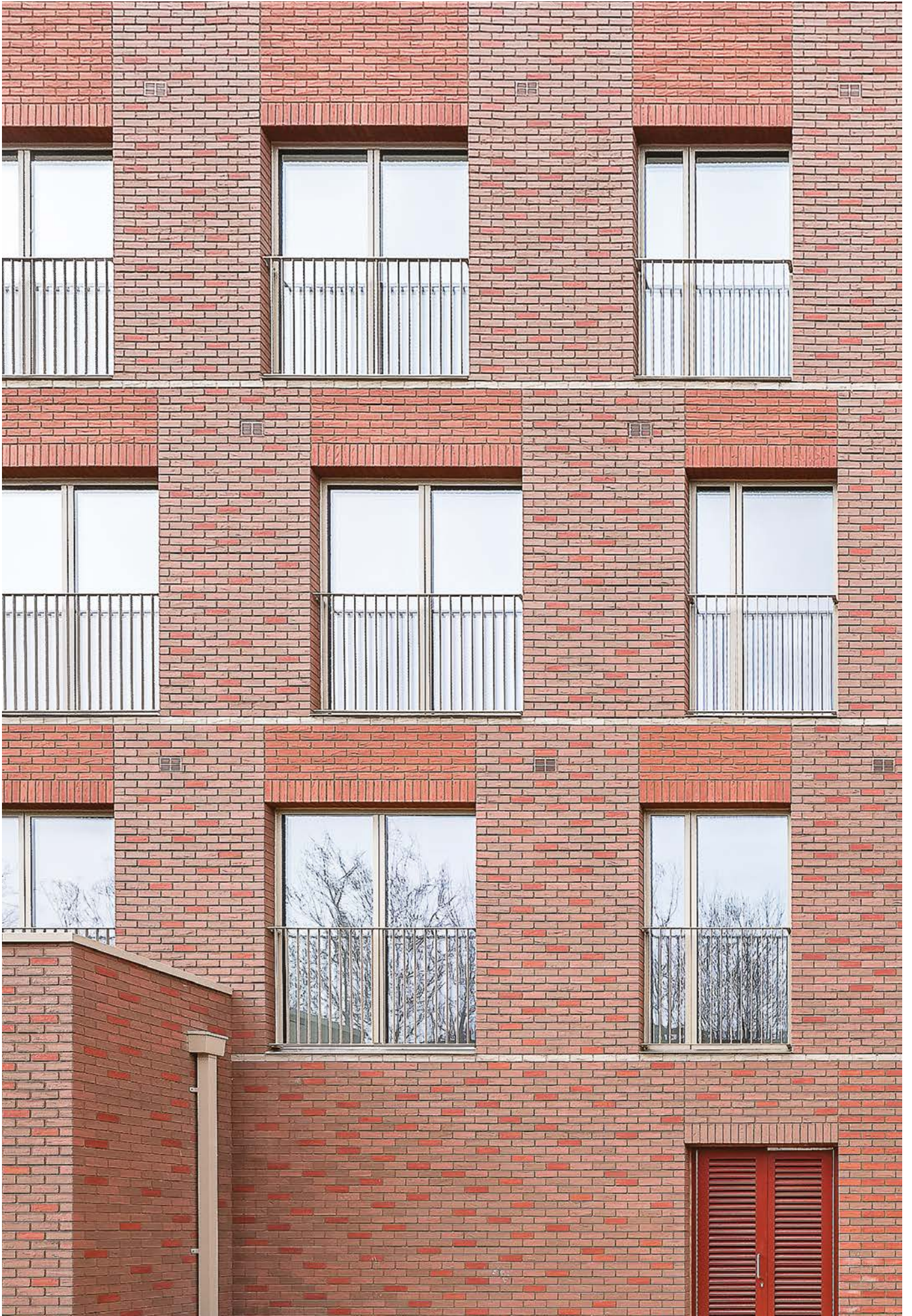
Image on right:
Whiting Avenue, Barking, UK
 Building owner: Pocket Living, UK
 Design: Reed Watts Architects, UK
 Execution: Alpine Finishing, UK
 Sto expertise: StoTherm Mineral; StoCleyer B
 Photo: Fred Howarth

StoCleyer B brick slips



Traditional bricks





Fast and easy application for perfect results

The StoCleyer B mineral brick slips are bonded to the substrate with a pre-mixed adhesive that is ready to go straight out of the pail - no mixing or adding water.

Sto's adhesive provides a consistent colour and tested bond strength every time with no risk of overwatering or efflorescence. The adhesive also dries quickly reaching maximum strength in hours instead of days - consistent and reliable quality every time.

With their inherent light weight, StoCleyer B mineral slips are easy to apply, bonding immediately with no risk of slipping and their light weight reduces fatigue and the risk of repetitive strain injury.

StoCleyer B brick slips are easy to reposition, if required, in the first few minutes. The Sto bonding and pointing mortar also forms the joint in the same operation with no need for additional grouting materials or waiting for the adhesive to cure before applying the grout.

Corners and lintels are supplied pre-formed to fit, and part-bricks can be easily shaped using snips. Even curved surfaces can be easily achieved thanks to the flexible nature of StoCleyer B.

StoCleyer B - quick application in 4 easy steps



Set out line and level



Apply the ready-mixed mortar



Apply the StoCleyer B slips



Smooth out the joints - Done!



Above: Strabrecht College, NL
Contractor: BINX Smartility, NL
Design: Atelier PRO Architecten BV, NL
Execution: Fleurbaaij Totaal Afbouw, NL
Sto expertise: StoTherm Classic®; StoCleyer B
Photo: Ronald Tilleman, NL

Left: Im Pioneer Park, DE
Design: Kaufmann GmbH, DE
Sto expertise: StoTherm Vario, StoCleyer B
Photo: Axel Stephan, DE

Tested for durability and performance

Extremely flexible, yet also extremely tough when bonded to the substrate, StoCleyer B mineral brick slips are ideal for flexing with temperature-induced movement, and can resiliently withstand impact and general wear and tear.

Tested within our own test facilities and independently, StoCleyer B brick slips are included as finishes by the BBA and various European approvals bodies on many of our external wall insulation and rainscreen systems.

Used on projects since the 1980s, StoCleyer B facades are time-proven to withstand the worst the weather can throw at it, also handling day-to-day wear and tear.

This reliability and light weight also gives peace of mind to high-rise applications where there may be a fear of freeze-thaw action possibly loosening heavy clay slips, even with mechanically fixed systems.

Not only this, but StoCleyer B and the associated Sto adhesive and pointing mortar is classified A2-s1, d0 reaction to fire.



A 1920s house UK, refurbished to Passivhaus standards, retaining brick to the lower level
Sto expertise:
 StoTherm Classic,
 StoRend Flex onto
 StoVentec carrier board, StoCleyer B



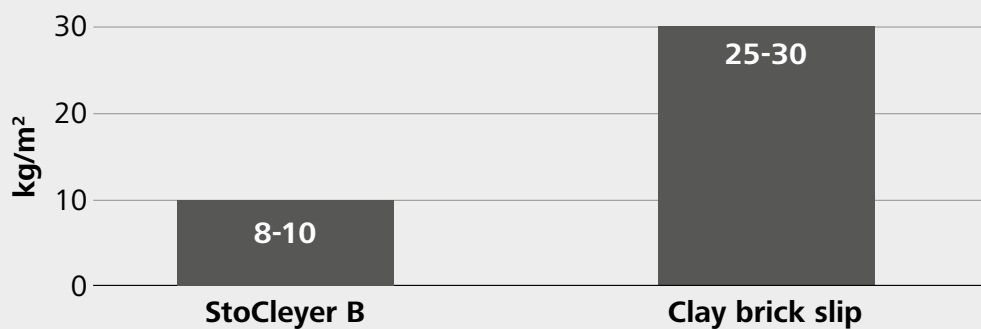
Image above:
Eco Vicarage, UK completed in 2012
Design: Associated Architects
Sto expertise: StoTherm Classic, Stolit Render,
StoCleyer B
Photo: Samuel Ashfield, UK

Image left:
**Tamworth Towers, UK completed
in 2013**
Design: PRP Architects
Sto Expertise: StoTherm Mineral, StoLotusan
Render, StoCleyer B
Photo: Darren Hartley, UK

The ideal offsite solution

With its light weight, easy and fast to apply application process and flexibility, StoCleyer B provides an ideal solution for brick facades on offsite or modular construction.

StoCleyer B – around one third the weight of clay brick slips



Reducing the weight of a typical wall construction by 20kg/m² means lifting and manoeuvring wall panels becomes much easier. The inherent flexibility of the solution also means that brick slips are far less likely to pop off during this type of process and when being lifted into position on site.

The quick drying adhesive and pointing mortar, combined with the light weight of the slips means panels can be moved from the application area to storage in the vertical axis, immediately after application, saving time and reducing required floor space.

Sto has an enormous amount of experience with the established offsite industry across Europe, and can offer consultancy for your offsite operation, optimising processes and giving advice on equipment.



Above: Laurensvliet, Zwijndrecht, NL
 Contractor: Bam Woningbouw W&R Reno, NL
 Design: RoosRos Architecten, Oud-Bijerland NL
 Execution: Ter Woerds Neede, NL
 Sto expertise: StoVentec; StoCleyer B
 Photo: Norbert Duijvelshoff



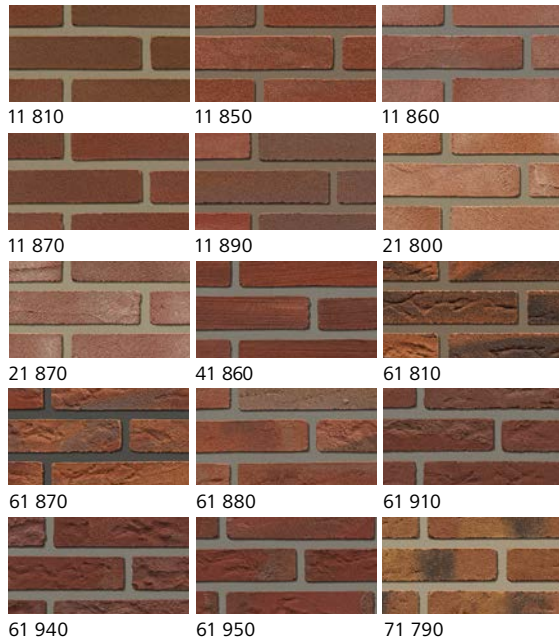
Left: Van Speijkstraat, Arnhem, NL
 Building owner: Portaal, Arnhem, NL
 Design: Beltman, Enschede, NL
 Execution: Ter Woerds Neede, NL
 Sto expertise: StoTherm Classic, StoCleyer B

StoCleyer B: Range

StoCleyer B - Red



StoCleyer B 11 730



StoCleyer B - Red



StoCleyer B 71 830



- All StoCleyer B mineral brick slips are available in standard brick formats along with the associated corner solutions
- Material thickness: 4–8 mm
- Custom mixtures of bricks are available on request

Our StoCleyer B range includes more than 130 bricks and all mineral brick slips are available in standard brick formats along with the associated corner solutions.

StoCleyer B - Yellow



StoCleyer B 11 460



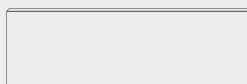
StoCleyer B - Yellow



StoCleyer B 71 530

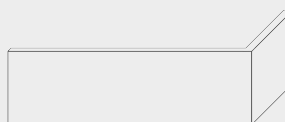


Standard formats:



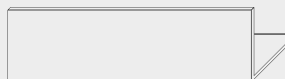
StoCleyer B normal format: 215 x 65 mm

Corner mineral brick slip



StoCleyer B corner mineral brick slip normal format:
215 x 102.5 x 65 mm

Lintel mineral brick slip



StoCleyer B lintel mineral brick slip NF: 215 x 65 x 65 mm



StoCleyer B: Range

StoCleyer B - Brown / Orange



StoCleyer B 11 470



StoCleyer B - Brown / Orange



StoCleyer B 61 820



StoCleyer B - Purple / Grey / White



StoCleyer B 11 130



StoCleyer B - Purple / Grey / White



StoCleyer B 31 150





StoCleyer B: Tried and tested

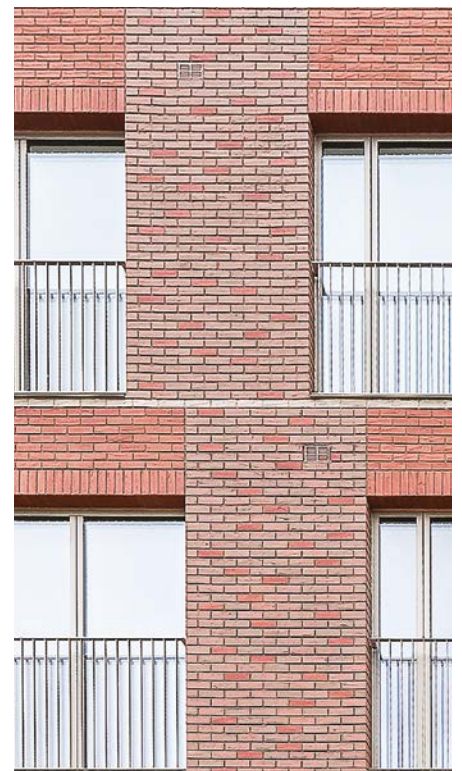


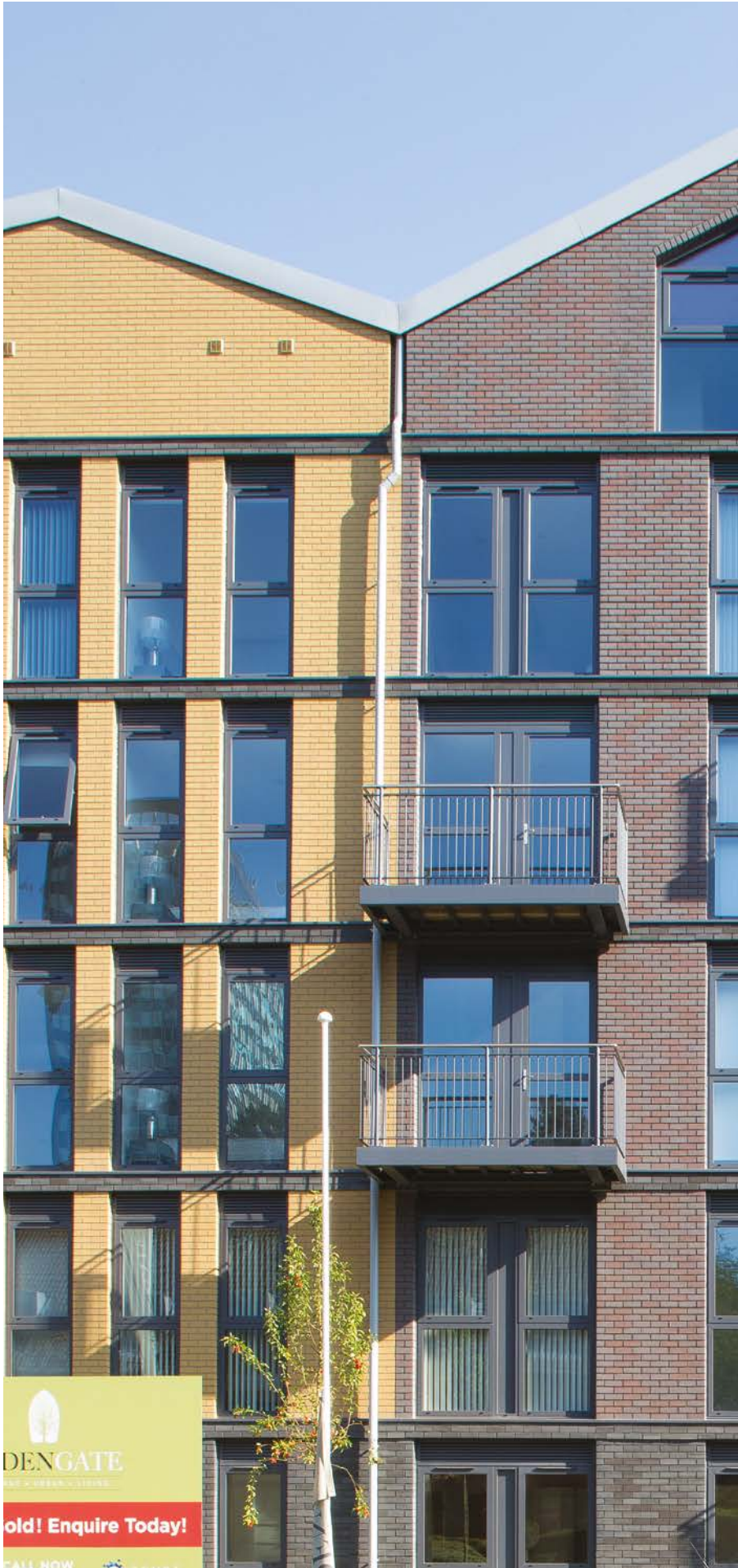
Tyler House, London, UK
Design: Rock Townsend
Execution: Regency Plastering, UK
Sto expertise: StoTherm Mineral; StoCleyer B
Photo: Simon Turner, UK

A multitude of possibilities: the following examples of projects demonstrate the many different ways in which StoCleyer B can be used to create traditional brick slip facades and showcase the innovative ideas for facade design involving facade insulation systems which can be made real.

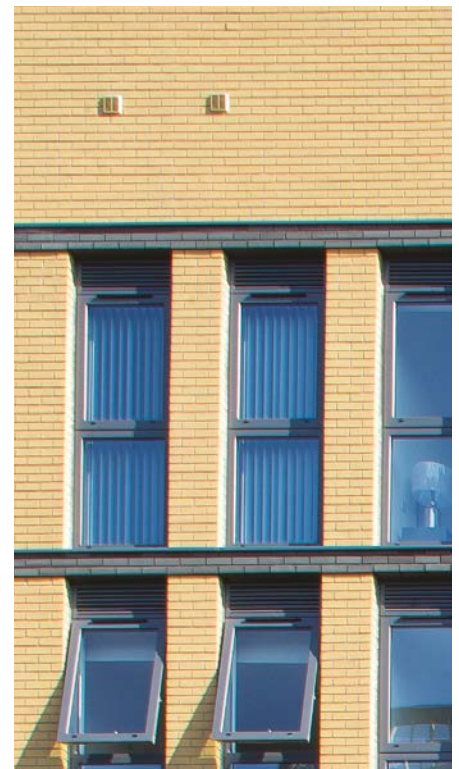


Whiting Avenue, Barking, UK
Building owner: Pocket Living, UK
Design: Reed Watts Architects, UK
Execution: Alpine Finishing, UK
Sto expertise: StoTherm Mineral, StoCleyer B
Photo: Fred Howarth



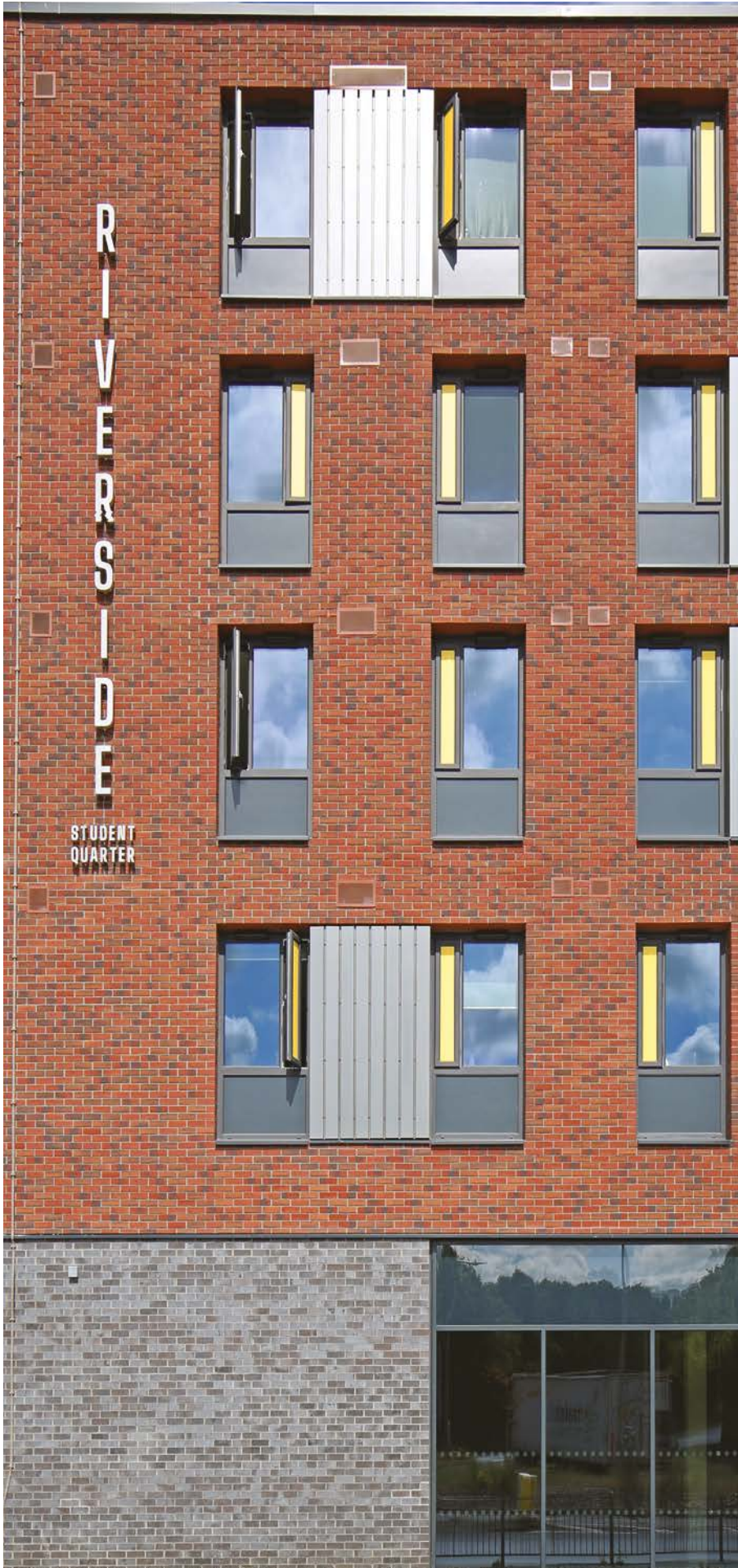


Arden Gate, Birmingham, UK
Building owner: Court Collaboration
Design: Corstorphine & Wright, UK
Execution: Craft Interior Ltd, UK
Sto expertise: StoTherm Mineral, StoCleyer B





Strabrecht College, NL
Contractor: BINX Smartility, NL
Design: Atelier PRO Architecten BV, NL
Execution: Fleurbaaij Totaal Afbouw, NL
Sto expertise: StoTherm Classic®; StoCleyer B
Photo: Ronald Tilleman, NL

**Riverside, Kent, UK**

Design: PRC Architecture & Planning, UK
& Bryden Wood, UK

Execution: Build-Therm Services, UK

Sto expertise: StoTherm Mineral external wall
insulation, StoCleyer B, StoSilco render

Photo: Simon Turner, UK





Beeke van Belzen office building, Middelburg, NL

Building owner: Jan Beeke/Sander van Belzen, Middelburg, NL

Design: Joos Nijssse Architectuurburo, Middelburg, NL

Execution: Willems Stucadoor & Afbouwbedrijf VOF, Duizel, NL

Sto expertise: StoTherm Classic®; StoCleyer B 21130; StoSignature Rough 1

Photo: Viorella Luciana photography, Middelburg, NL

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