

WIENERBERGER FACADES

ROOF / BRICK / PAVER / **FACADE** / BLOCK



WIENERBERGER

Wienerberger is the UK's leading provider of wall, roof and landscaping innovations. We offer one of the broadest product portfolios in the construction business, including clay facing bricks (stock and wire-cut), specialist engineering bricks, the Porothersm clay block system, façade solutions and a wide range of brick slips. We also offer a full range of Sandtoft clay and concrete roofing products, in-roof solar, Keymer handmade roof tiles, bespoke heritage products and a range of domestic and commercial pavers.

Find out more about our products and services at
www.wienerberger.co.uk

This page

Drayton Wharf, West Drayton, UK
Corium



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Cover

City Centre Campus, Manchester College
Corium | image © Christian Smith

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WIENERBERGER FACADES

Building upon the strong foundations of our longstanding brick expertise, Wienerberger Facades are here to help you shape the changing face of construction, covering every dimension that needs to be considered when specifying for the evolving world of facades.

In our dedication to creating a better building envelope, Wienerberger Facades are regulating expectations by complying to industry standards for architectural cladding and achieving vital certification through rigorous testing.

We are raising standards in the brick wall cladding and fibre cement panel markets by only offering products of the highest quality and performance specifications.

We are redefining possibilities in terms of cladding design with truly versatile materials that have the potential to create the facades of the future.

Corium Brick Rainscreen Cladding System

- Corium, a brick cladding system that combines design versatility, fast track installation and durability in one BBA certified and A1 rated* facade solution.

For more information about our facade systems or to contact a member of our team to discuss your project please visit our website www.wienerberger.co.uk

* Corium brick tiles are classified as A1 in accordance with BS EN 13501-1. | Steel backing rails are also classified as A1. | Corner units supplied by Wienerberger for 90 degree external corners and angles are cut and bonded using an A2 rated adhesive.







Central Mosque, Cambridge, UK
Corium

Corium



WHAT IS CORIUM?

Corium consists of clay brick tiles, clipped into interlocking steel backing sections mounted horizontally or vertically. It is suitable for use on steel framed substrate walls, concrete, external masonry and timber frame of both new and existing buildings.

Safety

- BBA approved and certified.
- As a fired clay product Corium brick tiles are inherently non combustible and classified as A1¹ in accordance with BS EN 13501-1.
- Corium can satisfy or contribute to satisfying the relevant requirements in relation to NHBC standards.

Design Flexibility

- Over 2,500 brick tile finishes available, including choices of colour and texture.
- The option to develop bespoke blends for projects.
- Variable tile height options of 50mm, 65mm, 140mm and 215mm.
- Can be installed horizontally or vertically, including soffits and ceilings.

Performance

- A design life in excess of 35 years in accordance with section 10 of the BBA certificate.
- No build limit, with installations on projects in the UK up to 28 storeys (as per section 6.2 of the BBA certificate)².
- Simple mechanical fix installation.

¹ Corium brick tiles are classified as A1 in accordance with BS EN 13501-1. | Steel backing rails are also classified as A1. | Corner units supplied by Wienerberger for 90 degree external corners and angles are cut and bonded using an A2 rated adhesive.

² Design wind actions must be calculated in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex. Due consideration should be given to higher pressure coefficients applicable to corners of the building, as recommended in this Standard. In accordance with BS EN 1990 : 2002, it is recommended that a partial load factor of 1.5 is applied to determine the design wind load to be resisted by the system. Please see the BBA certificate for full information.







CORIUM: CERTIFICATES & STANDARDS

**We have made sure that Corium meets rigorous safety criteria.
All the certification and reassurance you need to feel confident.**

BBA Certified

- Certified for use as protective/decorative cladding over external masonry, timber, concrete or steel-frame substrate walls of new and existing buildings (as per page 1 of the BBA certificate).

Fire Tested & Certified

- Classified as 'non-combustible' and not subject to any restriction on building height or proximity to boundary when used on a non-combustible substrate and with non-combustible components (as per section 7.2 of the BBA certificate).

NHBC Standards

- In the opinion of the BBA (page 3 of the certificate), Corium can satisfy or contribute to satisfying the relevant requirements in relation to NHBC standards, Part 6 Superstructure (excluding roofs) and Chapter 6.9 Curtain walling and cladding.



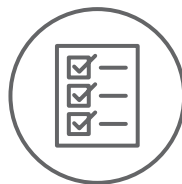
A1 fire
rated*



BBA
Certified



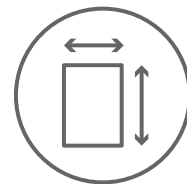
Impact
tested



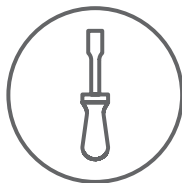
Can satisfy NHBC
standards



Broad range of
colours and textures



Various size options
available



Easy to
install



50% lighter than
traditional brick



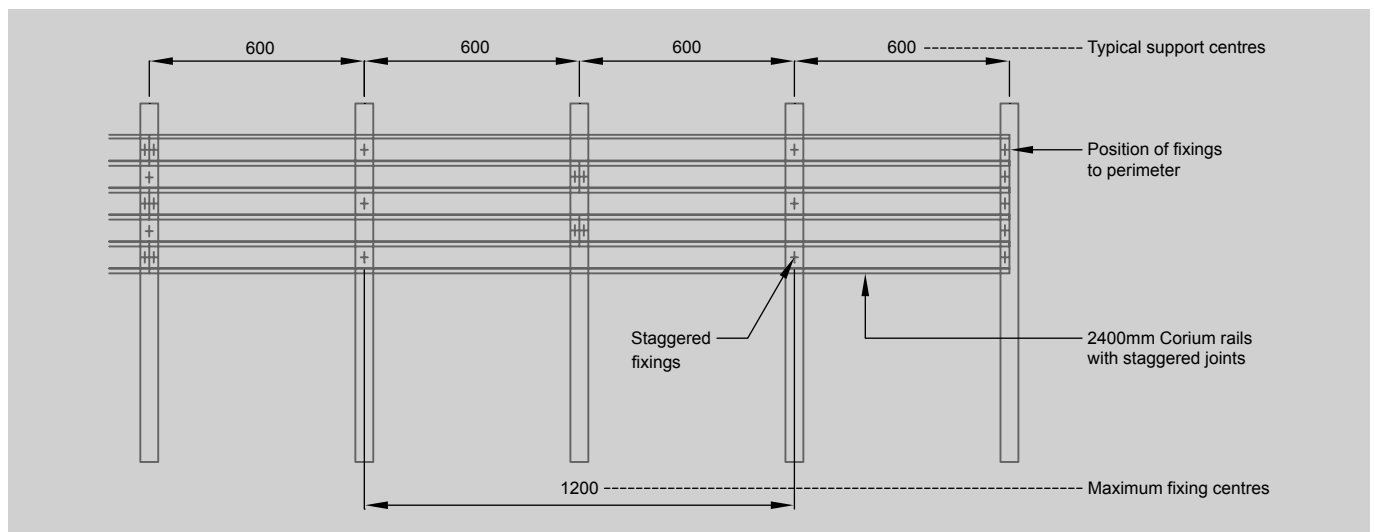
35 years
design life

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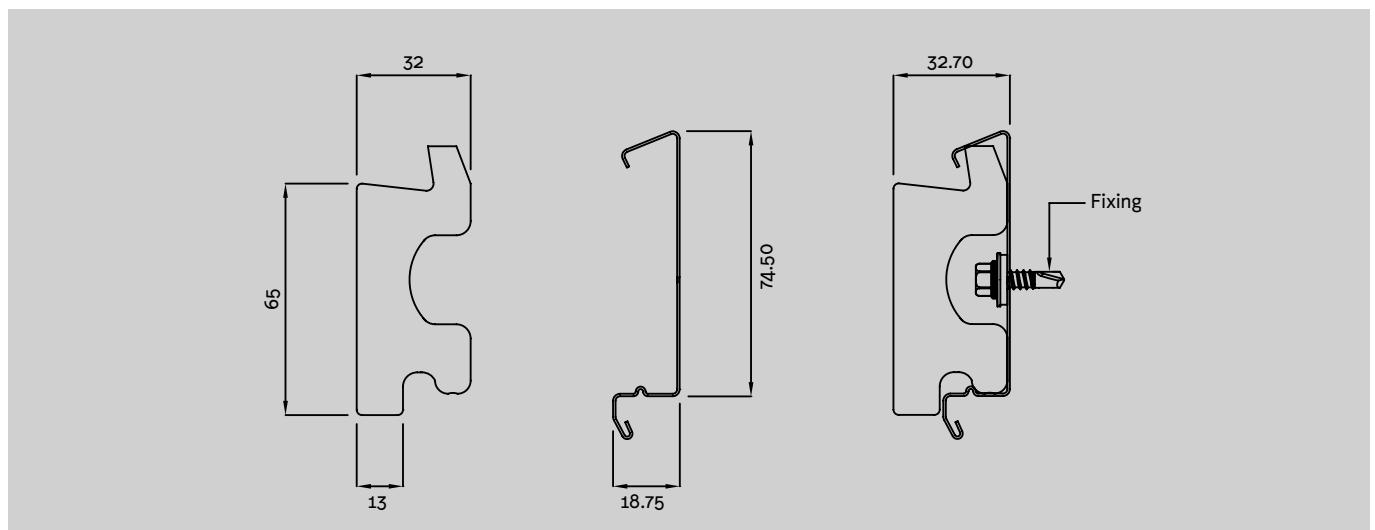
CORIUM: INSTALLATION

Corium is a system designed for adaptability and performance. The system comprises of fired clay extruded brick tiles, which are clipped into longitudinally interlocking steel backing sections. The vertical and horizontal joints between the tiles are pointed with Parex Historic Mortar KL.

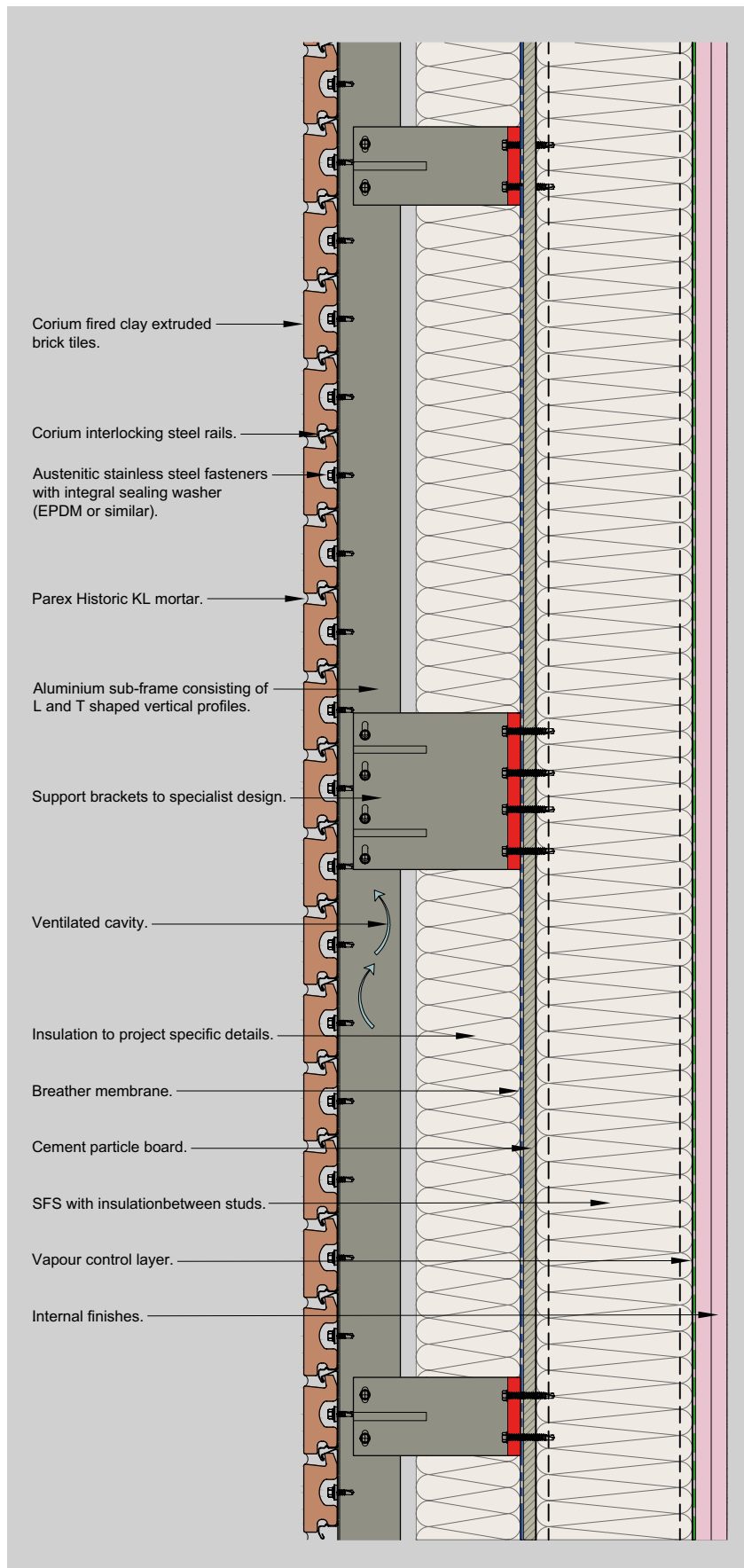
The steel backing sections are profiled to suit the brickwork coursing height, mounted horizontally or vertically and then mechanically fixed to the supporting subframe. For lightweight steel frame and masonry substrates, the subframe is generally aluminium, but for timber-frame structures this would be timber battens.



Typical fixing pattern of the Corium Brick Tile Cladding System

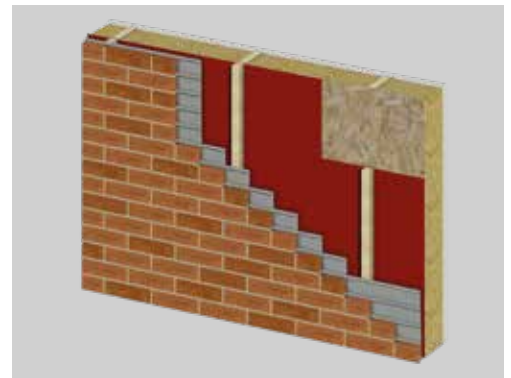


Corium Tile & Steel Backing Profile (Dimensions in mm)

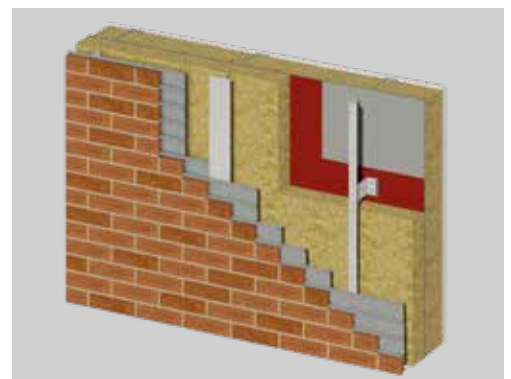


Typical wall build-up for standard 65mm Corium Brick Tile

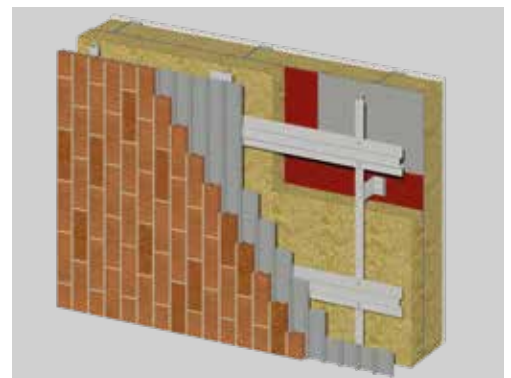
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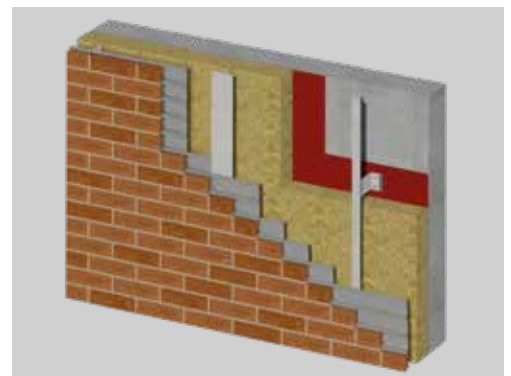
Timber frame



Lightweight steel frame



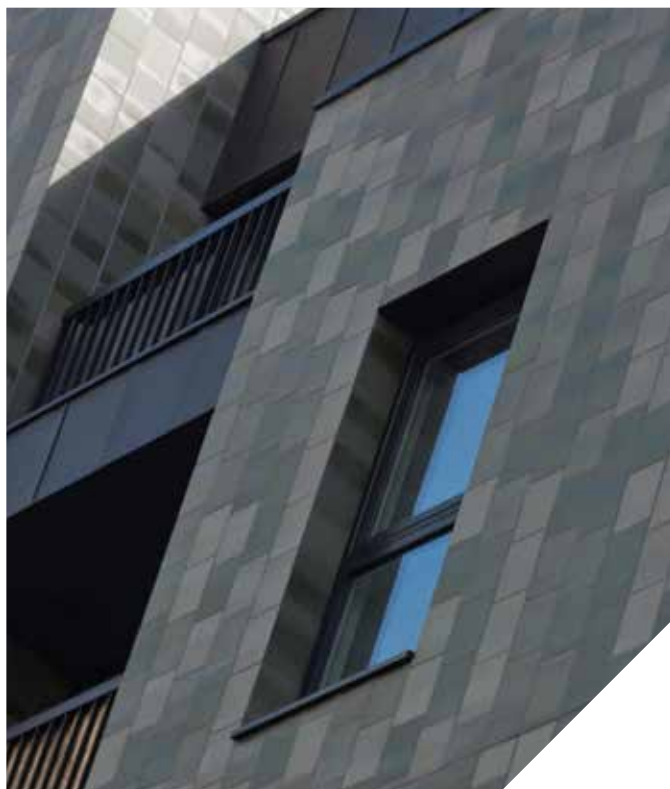
Lightweight steel frame - Vertical



Concrete

CORIUM: TILES

Offering authentic brick aesthetics with an unrivalled choice of colours, textures, standard and bespoke sizes, and even premade corners. All of which can be installed on a range of substructures, for complete versatility. It all combines in Corium, redefining what's possible in cladding.



City Park West, Chelmsford, UK
Corium large format tiles



50mm height tile



65mm height tile
Standard UK brick format



140mm height tile



215mm height tile
Large format

Size Options

Height (mm)

50, 65, 140, 215

Length (mm)

215 (other lengths available up to 327mm)

Thickness (mm)

32, 52, 80*

Tile lip thickness (mm)

13

*CWCT tested but not included in the BBA.



CM.1B
Cut and bonded external return tile (LH or RH)



CM.2B
Cut and bonded stop end tile (LH or RH)



CM.3
Soldier tile



15mm projecting tile



20mm projecting tile



CM.4
Air brick tile



CM.5
Soffit return tile



Paxton Primary School, Lambeth, UK
Corium 50mm projecting tiles



50mm projecting tile

Special tiles

The system is designed with flexibility in mind, so corners are no obstacle. Tiles can be cut and bonded on site or at one of our trusted fabricators.

Projecting Tiles

Currently there are 3 different sizes:

Height (mm)

50, 65

Length (mm)

215

Projection (mm)

15 (50mm height), 20 & 50 (65mm height)

CORIUM: DESIGN DETAILS

Corium is a flexible, functional and imaginative brick cladding system with design potential that goes beyond the traditional look of brickwork to create truly unique projects.

Realising new frontiers of architectural possibilities means unleashing the design flexibility of Corium – across the building envelope or in statement sections – with local facades support and a nationwide network of recognised installers.

The facades of the future require versatility of design, efficiency of installation, and true architectural freedom. Corium is here to meet this challenge – redefining possibilities.



Lobby, Vibe Hotel, Darling Harbour, Sydney, Australia
Corium

Curves, Horizontal & Vertical Fitting

The system can be installed horizontally, vertically, or even at an angle, with no impact on performance, safety or durability (as per page 1 of the BBA certificate). This unlocks a wider range of aesthetic options as the system allows any brick bond pattern to be used.

Arches and curves are also achievable using Corium. Curves with a radius over 2m can be achieved easily, smaller radii can be achieved by cutting rails into shorter sections or installing the system vertically.

Off-Site Assembly

If projects require it, Corium can be assembled off-site, allowing for finished sections to be installed as a pre-fabricated solution to be pointed on site.

This method not only ensures quality controlled factory conditions during fabrication, but it allows for rapid construction without delays due to weather, reducing wastage and on-site construction time.



Wilson Secondary School, Virginia, USA
Corium

Soffits

With both horizontal and vertical installations supported, as per page 1 of the BBA Certificate, Corium can be used overhead to create soffits and ceilings. A common feature found across both refurbishment and contemporary schemes.



Parex Historic Mortar KL colours
Bespoke mortar colours available on request

Mortar

Joints between the tiles are pointed with Parex Historic Mortar KL, which is a hydrated lime, sand and ground granulated blast furnace slag (GGBS) mortar manufactured to BS EN 998-2 : 2016. The mortar is applied using manual, mechanical or compressed air based pumps with controlled nozzle applicators. The preferred joint profile is bucket-handle.

CORIUM: COLOURS & TEXTURES

Colours

Our extensive range of colours enables true aesthetic choice for your project. Traditional or contemporary, eclectic or uniform, there's a colour or blend to suit. Choose from a wide variety of standard colours, or get in touch to discuss how a bespoke blend could help make Corium the right choice for your scheme.

For more information please visit our website:

www.wienerberger.co.uk/products/facades

Textures

From the nuanced feel of traditional brick, to smooth, contemporary glazed tiles, Corium can define the look and feel of your building with a range of textures and finishes available to suit any scheme or style.



The Ritterman Building, Middlesex University, UK



Smooth



Gloss glazed



Dragface with crease



Dragface without crease



Echo Central, Leeds, UK



The Place, Sydney, Australia



Sanded with crease



Handformed creased



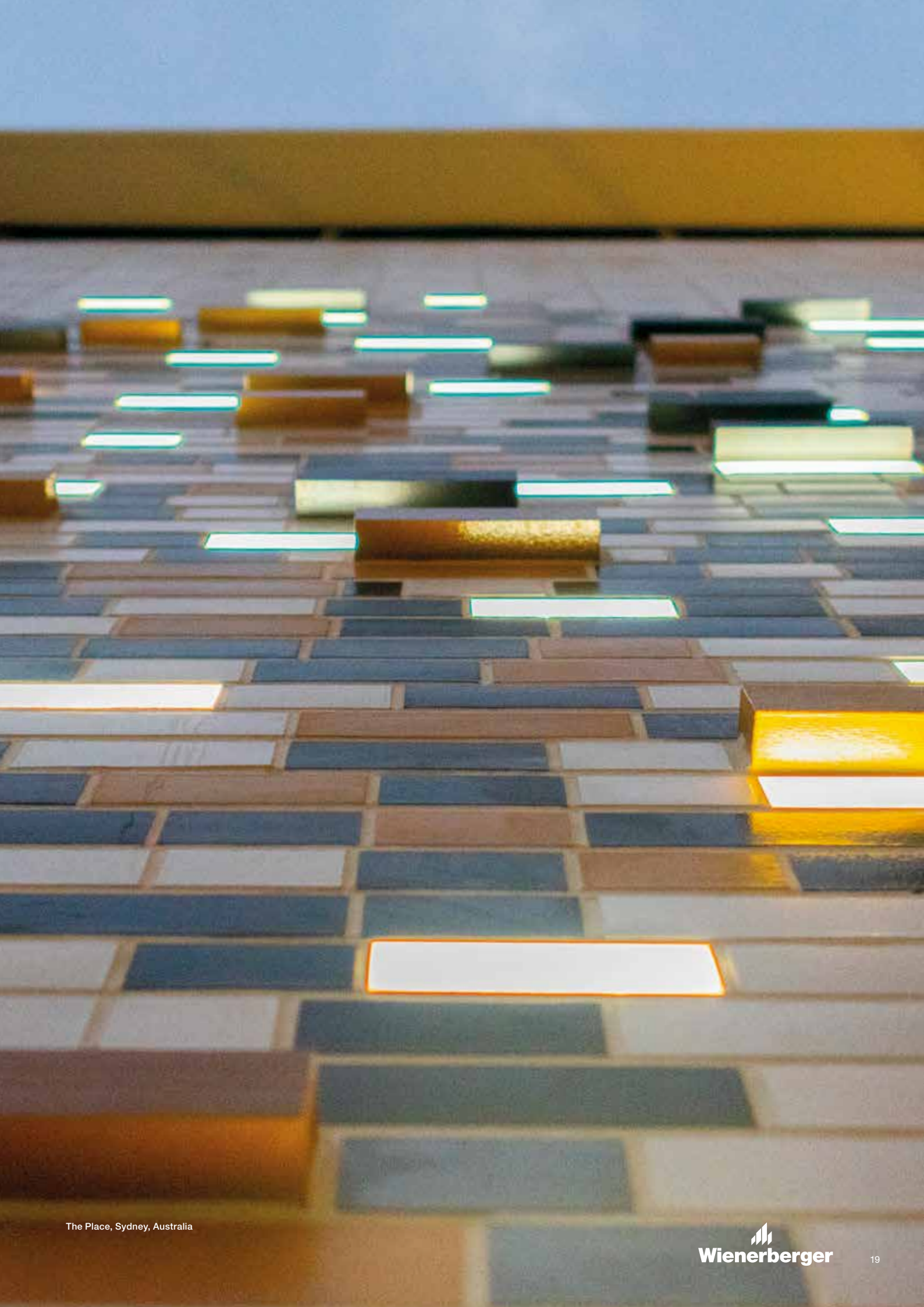
Belmont House, Uxbridge, UK



Loughborough University, UK



Rustic edges



CORIUM: CASE STUDY

South Thames College

Location	London, UK
Main contractor	United Living
Architect	Boon Brown



CORIUM: CASE STUDY

Cambridge Mosque

Location	Cambridge, UK
Main contractor	M Clarke & Sons
Architect	Marks Barfield



CORIUM: CASE STUDY

City Park West

Location	Chelmsford, UK
Main contractor	Conneely Facades
Architect	Pollard Thomas Edwards





CORIUM: CASE STUDY

Drayton Wharf, West Drayton

Location

London, UK

Main contractor

CCS Facades

Client

Howarth Homes



CORIUM: CASE STUDY

Cambridge Street

Location	Manchester, UK
Main contractor	Astley Facades
Architect	Hodder & Partners





Wall Solutions

 **Terca**

 **Porotherm**

 **Corium**

Roof Solutions

 **Sandtoft**

 **Koramic**

KEYMER

Landscaping Solutions

 **Penter**

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