

Forterra is a leading manufacturer of a diverse range of clay and concrete building products, used extensively within the construction sector, and employs over 1,600 people across 15 manufacturing facilities in the UK.

We are one of the largest brick and aircrete block manufacturers in the country, and the only producer of the iconic London Brick. Other trusted brands include Thermalite, Conbloc, Ecostock, Butterley, Cradley, Red Bank, Bison Precast and Formpave.

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FORTERRA

THE BRICK GUIDE



THE BRICK GUIDE



HELPING TO CREATE LASTING LEGACIES

Forterra is a leading manufacturer of clay and concrete building products. Some of its brands have been around since the 19th century, providing a constant and reliable source of high quality materials for the UK's construction industry.

FORTERRA TODAY

Forterra continues to be a prominent investor and innovator in the development of building materials and employs almost 1,600 people across 15 manufacturing sites. Alongside craftsmen employing centuries-old techniques to create bespoke products for restoration or one-off projects, the company also operates state-of-the-art manufacturing facilities with an annual production capacity of over half a billion bricks.

At its seven brick manufacturing facilities, some of the industry's best-known clay brick brands are produced. These include the Butterley range of wire-cut extruded bricks, the Ecostock range of pressed, thrown and waterstruck bricks, Cradley special shaped and bespoke bricks, and the original London Brick of which Forterra is the only producer in the country. London Brick has been in continuous production since 1877, its distinctive 'frog' formation making it easy to handle and the clay brick of choice for training future generations of bricklayers.

New Desford, the largest and most efficient brick factory in Europe, officially opened in May 2023. Desford will manufacture 180 million bricks per annum, enough to produce 25,000 new homes and provide customers with an additional 120 million domestically produced bricks.

We manufacture bricks in a wealth of red, buff, yellow, brown, blue and grey colours, and in several textures: smooth, with a consistent, uniform character; light textured, which is modern and uniform, with an indented or printed finish; heavy textured, with a harder and rougher texture for a more rustic brick with a consistent finish; and tumbled, a distressed and irregular shape associated with reclaimed bricks.

INTRODUCING OUR BRANDS



THE ORIGINAL
LONDON
BRICK

In continuous production since 1877, the iconic London Brick has been used in the building of almost a quarter of England’s housing stock. It’s an astonishing legacy for a product that is still made in the same way as it was over 140 years ago.

Today, London Brick is produced primarily for the residential renovation, maintenance and improvement (RMI) market. The 23 styles and colours in its range are designed to match the five million homes built using London Bricks as owners look to improve and extend their homes.



ECOSTOCK
BRICK

Ecostock bricks are manufactured at our Measham facility one of the UK’s largest, most advanced, fully automated soft mud brick manufacturing plants in UK.

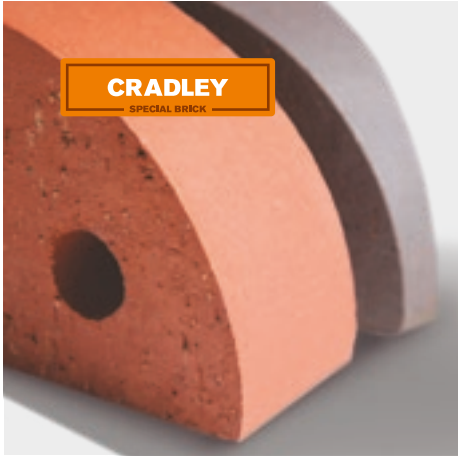
We produce three kinds of this soft mud brick, stock pressed with a smooth, sand faced finish; stock thrown, which have a traditional handmade appearance; and waterstruck, which have a smooth but irregular surface. Ecostock bricks are available in a wide selection of red, buff, grey and yellow colours.



BUTTERLEY
BRICK

The Butterley name has been synonymous with brick manufacturing in the UK for over 150 years and is the largest brick offering from Forterra producing around 300 million bricks a year.

The current range of Butterley wirecut extruded bricks has a wealth of colours and finishes to suit both classic and contemporary architecture. Choose from red, buff, yellow, brown, blue and grey bricks in a smooth, uniform finish; a modern, lightly textured finish; a more rustic looking heavy textured; or tumbled, which has the distressed, irregular look of reclaimed bricks.



CRADLEY
SPECIAL BRICK

The Cradley Special Brick team create products for heritage restoration projects alongside those for renovations, extensions and modern builds, whether it’s producing a large run of British Standard bricks or carefully crafting a bespoke special.

With over 8,000 unique special shaped brick patterns on file alongside standard ones, the Cradley Special Brick range is one of the most comprehensive in the UK.

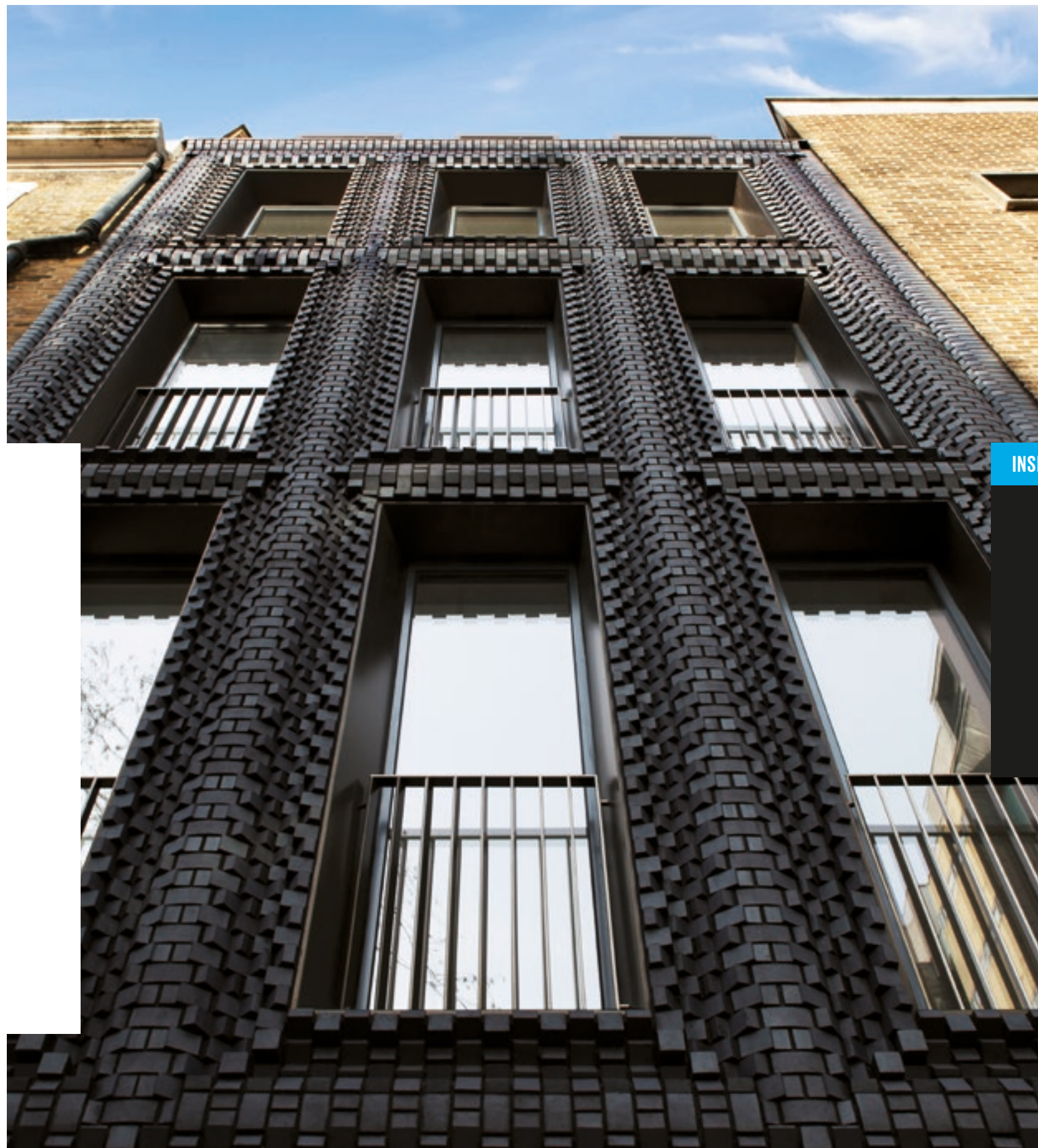
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Disclaimer
Photographic representation of our brick colours does not always accurately portray the true colour of the product and we recommend a sample is requested before ordering. The colours in this brochure are as true as can be obtained by the normal printing process. All dimensions are in mm, drawings not to scale and all sizes nominal. Forterra is committed to a programme of continuous product development and reserves the right to alter specifications without prior notification.

CLAY BRICK, SUSTAINABLE DURABLE BEAUTIFUL

The wide variety of textures, colours, sizes and shapes of clay brick available from Forterra provide endless possibilities for aesthetic design, from traditional to contemporary.



INSPIRATIONAL ARCHITECTURE

Forterra has worked with architects, engineers and house builders to maximise the potential of clay brick, creating buildings that combine outstanding aesthetics with benefits that only brick can provide: durability, little to no maintenance, and recyclable at the end of its use. It also contributes to thermal mass, resulting in buildings which need less energy for heating.





RED BRICKS

RED BRICKS

ABBAY BLEND



BUTTERLEY
BRICK

Texture
Rolled Back

ABBAY RED MULTI



BUTTERLEY
BRICK

Texture
Rolled Back

ABBAY WEATHERED



BUTTERLEY
BRICK

Texture
Dragfaced

ARDEN SPECIAL RESERVE



BUTTERLEY
BRICK

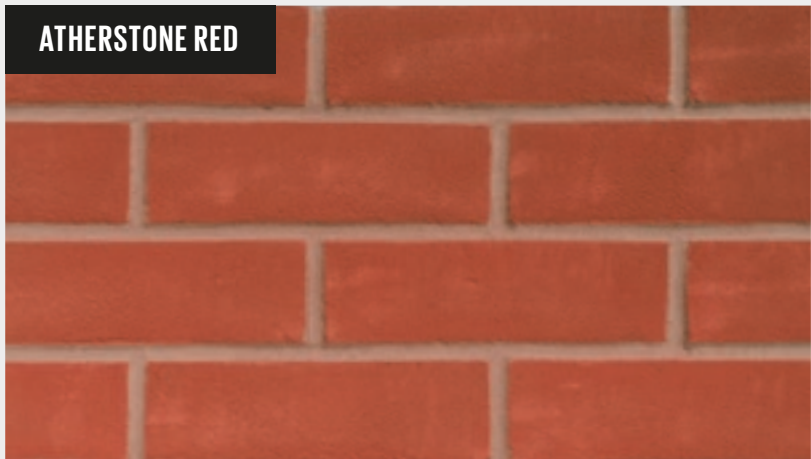
Texture
Indented



ARUNDEL MIX



Texture
Creased



ATHERSTONE RED



Texture
Smooth Sanded



ATHERSTONE RED MULTI



Texture
Smooth Sanded



AUTUMN GLOW



Texture
Creased



AUTUMN GLOW MULTI



Texture
Creased

CASE STUDY

OVERSLADE LANE

This prestigious three-storey new build property in the village of Bilton was designed following close liaison with the local planning authority to ensure empathy to other nearby homes.

The selection of Forterra's Autumn Glow facing brick was central to the project's success in addressing the concerns of the local planners while enabling the client to meet their personal aesthetic requirements.

ARCHITECTS
JOHN HALTON DESIGN LTD

CONTRACTORS
T. BALFE CONSTRUCTION LTD



The enhanced durability designation allowed the creation of a seamless brick facade.





BOXHILL MELD



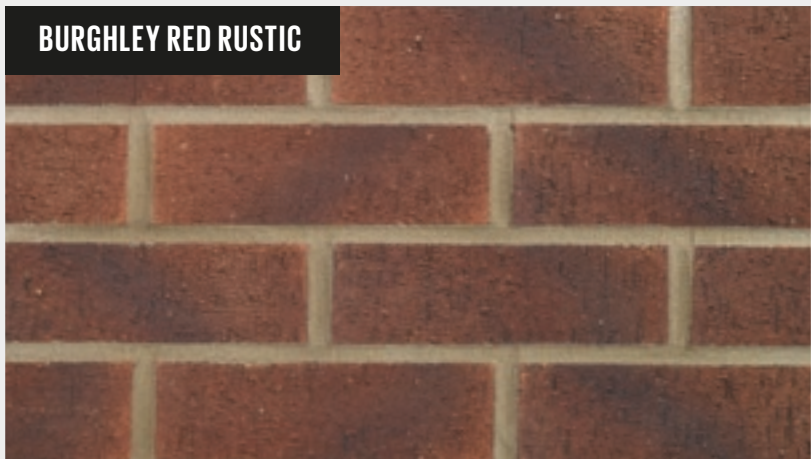
Texture
Creased



BRECKLAND MULTI RESERVE



Texture
Rolled Back



BURGHLEY RED RUSTIC



Texture
Rusticated



CANTERBURY MULTI STOCK



Texture
Creased



CHELSEA SMOKED RED



CATON RUSSET MIXTURE



Texture
Indented

CASE STUDY

SCHOONER WHARF

Schooner Wharf is a new build, mixed tenure housing development in a prominent location in Cardiff Bay.

It comprises 85 one and two-bedroomed apartments, and 32 two, three and four-bedroomed affordable houses and townhouses designed to meet Welsh DQR, Lifetime Homes and RNIB Standards. It was commissioned by Cardiff Community Housing Association (CCHA) in response to a need for affordable housing and is the first open market scheme to be developed by CCHA.

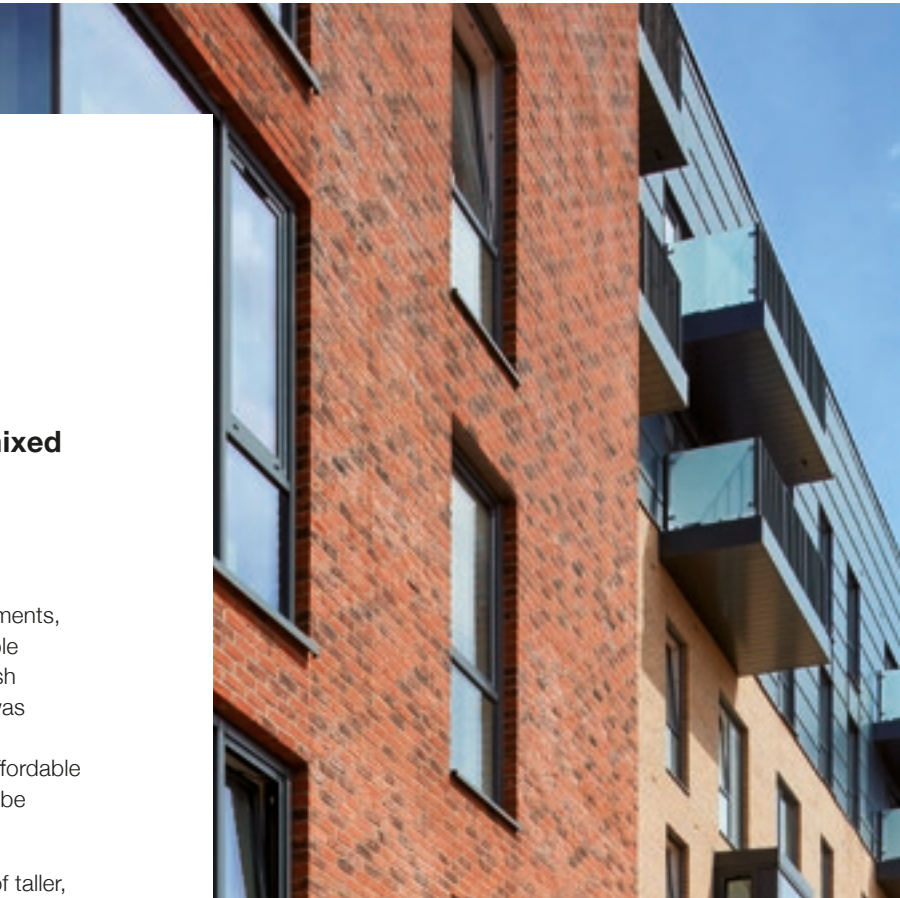
The site layout is based upon the continuation of taller, linear waterside development. The 85 apartments are situated in a seven-storey waterside apartment building, creating an eastern boundary. While the 32 high quality affordable homes are laid to the west, reflecting the existing residential developments which drop in height and scale away from the waterside.

The apartment building is clad mainly Forterra Chelsea Smoked Red, a charred red brick, referencing the site's industrial history and helping it to blend with its context.

The structural frame of the apartment block is an offsite light gauge metal frame (MetFrame), which would have required extensive engineering, i.e., the inclusion of hot rolled steel, to allow conventional brick laying at higher levels. However, this issue was overcome with the use of a brick slip system used at the upper levels where the façade steps in vertically, and above large and corner window openings.

ARCHITECTS
AUSTIN SMITH LORD

CLIENT
MORGANSTONE



Chelsea Smoked Red, a charred red brick, references the site's industrial history and helping it to blend with its context.



RED BRICKS



CHATSWORTH MULTI



Texture
Rolled Back



CHELSEA SMOKED RED



Texture
Creased



CHERTSEY ANTIQUE BLEND



Texture
Creased



CESHIRE RED MULTI



Texture
Indented

CLUMBER RED MIXTURE



BUTTERLEY
BRICK

Texture
Indented

CHILTERN



LONDON
BRICK

Texture
Indented

CLAYDON RED MULTI



LONDON
BRICK

Texture
Indented

CLOCKHOUSE MIXTURE



ECOSTOCK
BRICK

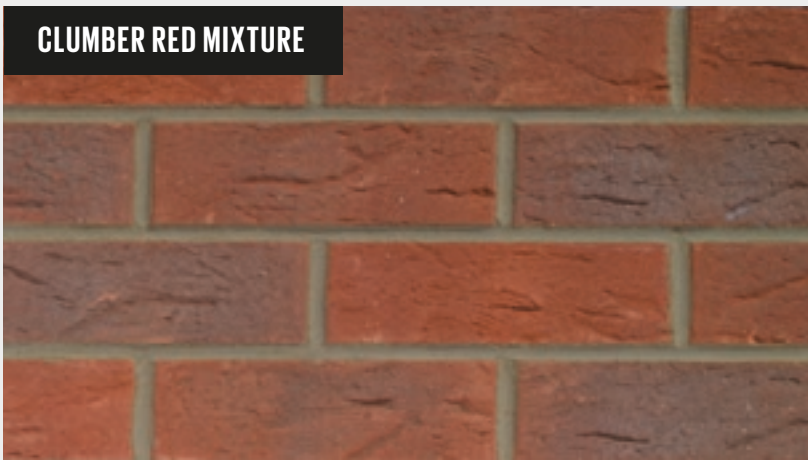
Texture
Creased

CLUMBER RED



BUTTERLEY
BRICK

Texture
Smooth Sanded



CLUMBER RED MIXTURE



Texture
Smooth Sanded

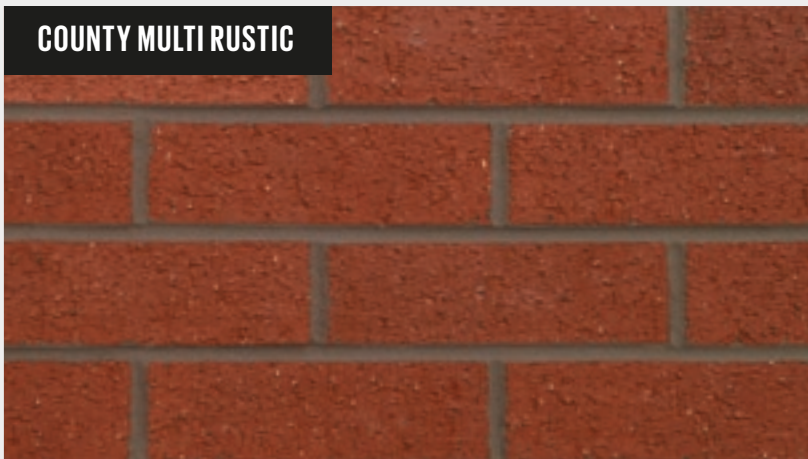


COUNTY MULTI DRAGFACED



Texture
Dragfaced

↑
65 & 73mm

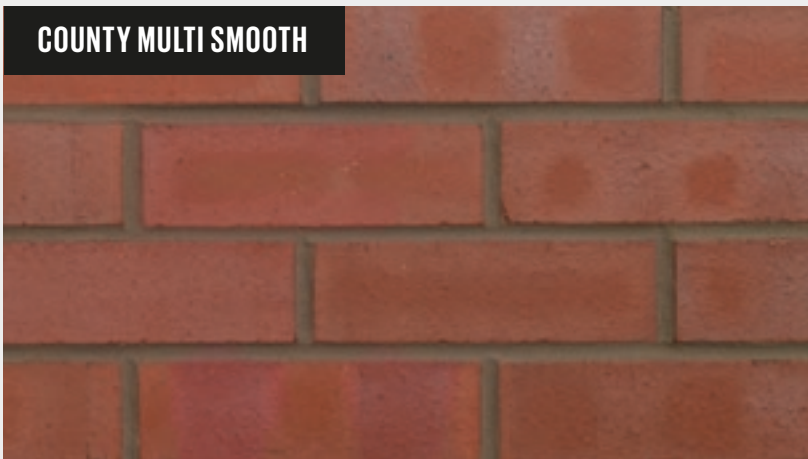


COUNTY MULTI RUSTIC



Texture
Rusticated

↑
65 & 73mm

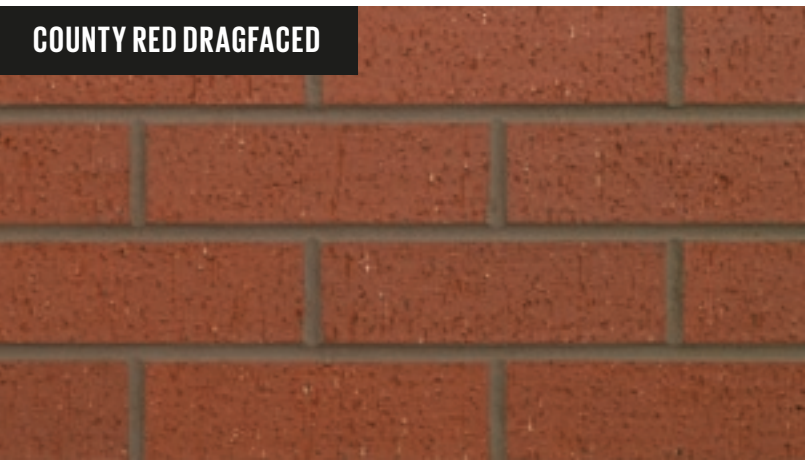


COUNTY MULTI SMOOTH



Texture
Smooth

↑
65 & 73mm



COUNTY RED DRAGFACED



Texture
Dragfaced

↑
65 & 73mm



COUNTY RED RUSTIC



Texture
Rusticated

↑
65 & 73mm



COUNTY RED SMOOTH



Texture
Smooth

↑
65 & 73mm

ORDER YOUR
BRICK SAMPLES

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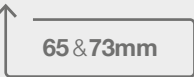
RED BRICKS



DARK MULTI RUSTIC



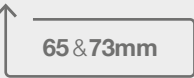
Texture
Rusticated



DARK MULTI SMOOTH



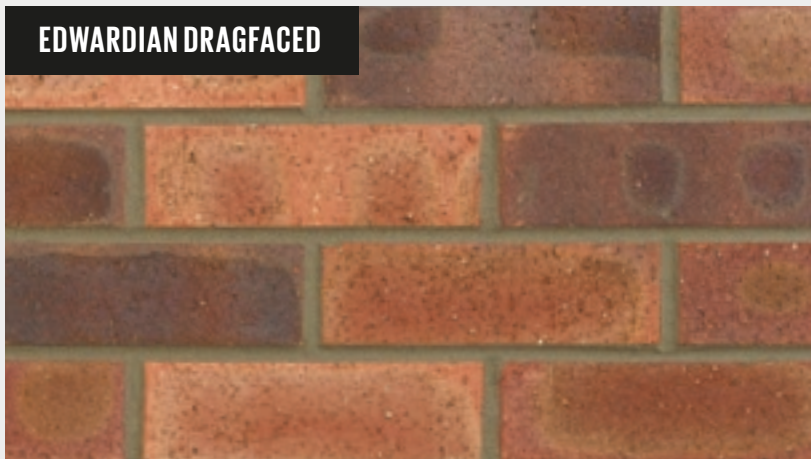
Texture
Smooth



DARK TAME VALLEY



Texture
Dragfaced



EDWARDIAN DRAGFACED



Texture
Indented



HAMPTON RURAL BLEND

RED BRICKS



FARMSTEAD ANTIQUE



Texture
Indented



FULWOOD MULTI



Texture
Indented



CASE STUDY

WESTON HILLS

An architect designed, self-build house with annexe for a multi-generational family built to zero-carbon standards.

The scheme's design is influenced by the architectural vernacular of the area. The surrounding houses are a legacy of the Land Settlement Association scheme, with distinctive mansard roofs, steeply sloping gables and dormer windows, constructed in a simple red brick with terracotta plain tiles.

The mansard is reflected in the new house with the roof extending down to form the walls. Instead of terracotta tiles, large format slate has been used to form a modern equivalent. The house is mainly slate tile; however, it was felt important to also reflect local brickwork. As such, brickwork was used for two huge brick-faced chimney stacks that rise through the gable.

To form a contrast with the very smooth grey of the slate, a textured red brick with slight colour variation was sought. White mortar lightens the brickwork while recessed mortar joints are used inside to provide shadow to each brick. Perforated brickwork surrounds the stone coping on both chimney stacks, adding visual interest to the building through both the materials and the shadows created by the brickwork perforations.

Ecstock bricks were used, which are manufactured using the latest technology in sustainability and production efficiency, producing bricks with low embodied energy as well as advanced colour consistency, dimensional accuracy and quality.

The structure incorporated huge amounts of insulation, a mechanical ventilation with heat recovery system, and a solar photovoltaic array at the bottom of the garden, along with a ground-source heat pump. These installations will ensure that the house generates more electricity than it could ever use.

ARCHITECTS
STUDIO 11 ARCHITECTURE



The brick selected was stock thrown Hampton Rural Blend from Forterra's Ecstock range. It has a rustic finish resembling handmade brick.

RED BRICKS

GEORGIAN



Texture
Sandfaced

HAMPTON RURAL BLEND



Texture
Creased

HARTHILL RED



Texture
Dragfaced

ORDER YOUR BRICK SAMPLES

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RED BRICKS



HEATHER

THE ORIGINAL
LONDON
BRICK

Texture
Sandfaced

↑
65 & 73mm



HEATHER MULTI

BUTTERLEY
BRICK

Texture
Sandfaced



KIMBOLTON RED MULTI

BUTTERLEY
BRICK

Texture
Indented



KIRTON ARDEN RED

BUTTERLEY
BRICK

Texture
Indented



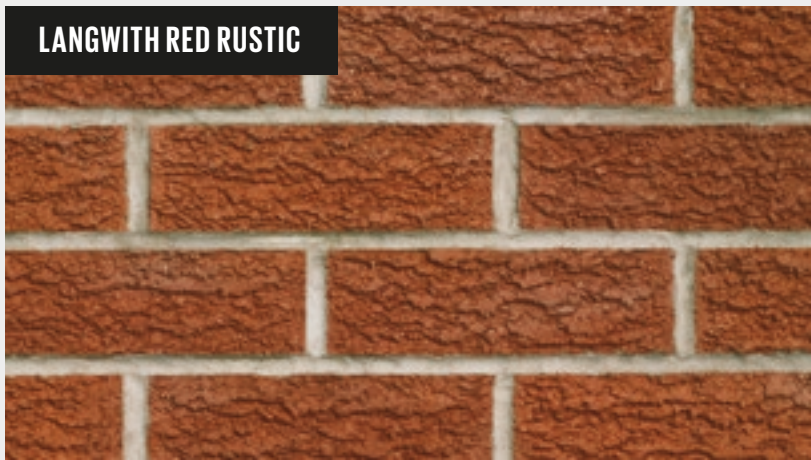
LAGGAN MIXTURE



LAGGAN MIXTURE

BUTTERLEY
BRICK

Texture
Dragfaced



LANGWITH RED RUSTIC



Texture
Rusticated



LINDUM COTTAGE RED MULTI



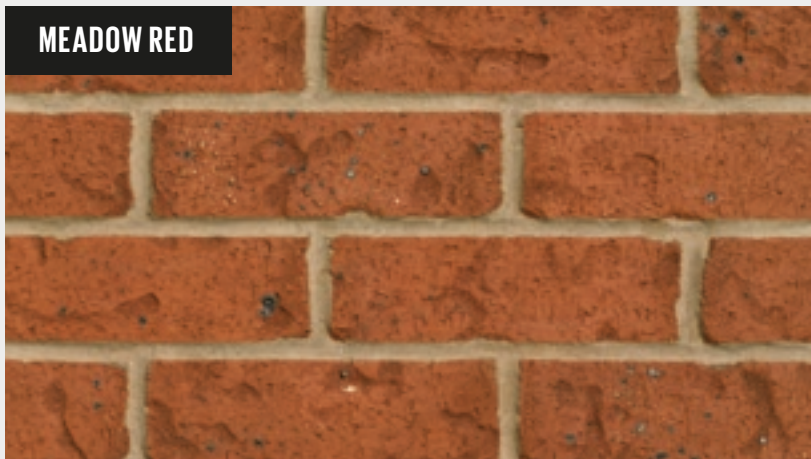
Texture
Smooth Sanded



MANDARIN MIXTURE



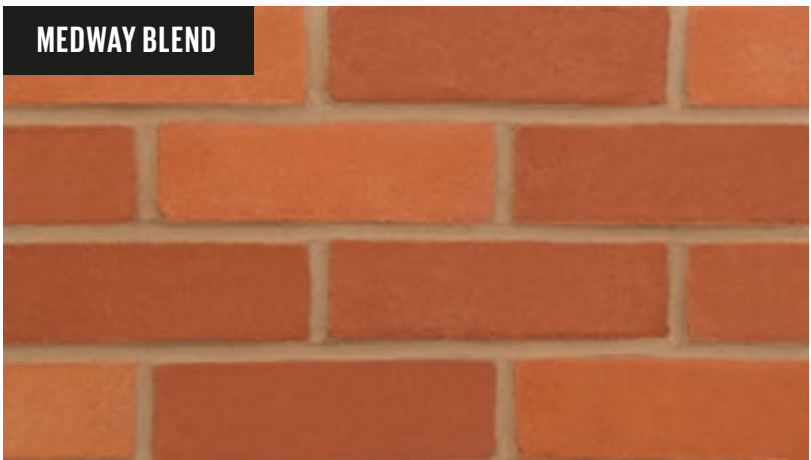
Texture
Dragfaced



MEADOW RED



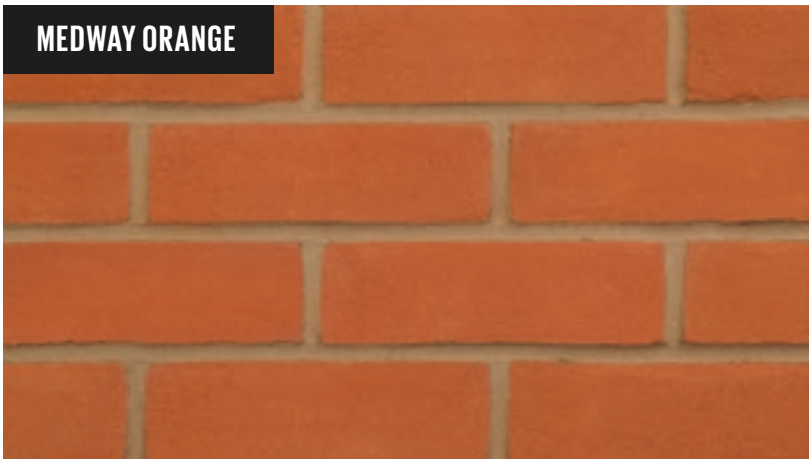
Texture
Indented



MEDWAY BLEND



Texture
Smooth Sanded



MEDWAY ORANGE



Texture
Smooth Sanded



MORAY RED MIXTURE



Texture
Rusticated

ORDER YOUR
BRICK SAMPLES

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OAKTHORPE RED MULTI STOCK



NOTTINGHAM RED RUSTIC



BUTTERLEY
BRICK

Texture
Rusticated

OAKTHORPE RED MULTI STOCK



ECOSTOCK
BRICK

Texture
Creased

OAKTHORPE RED STOCK



ECOSTOCK
BRICK

Texture
Creased

OLD ENGLISH BRINDLE RED



BUTTERLEY
BRICK

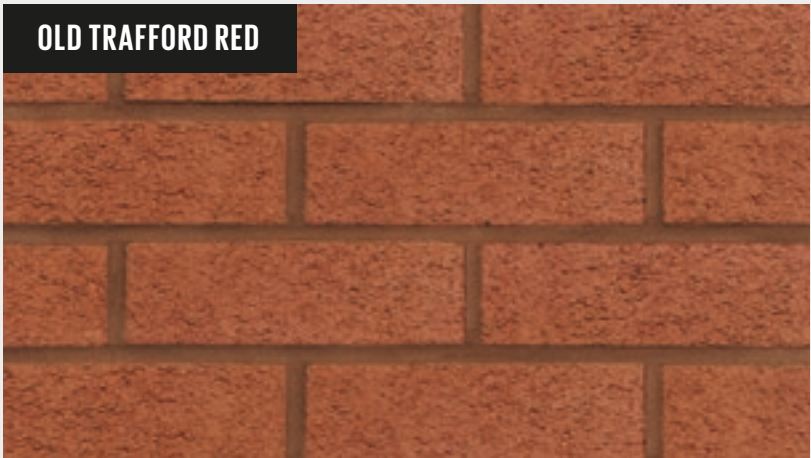
Texture
Indented

OLD ENGLISH ROSE RUSTIC



BUTTERLEY
BRICK

Texture
Rusticated



OLD TRAFFORD RED



Texture
Dragfaced



QUEENS BLEND



Texture
Dragfaced



RANNOCH MULTI RED



Texture
Indented



REGENCY



Texture
Sandfaced



QUEENS BLEND



ROSSENDALE SMOOTH RED



Texture
Smooth



RUFFORD RED MULTI



Texture
Dragfaced



RUSSET MIXTURE



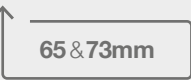
Texture
Dragfaced



RUSTIC



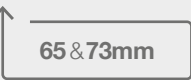
Texture
Rusticated



RUSTIC ANTIQUE



Texture
Rusticated



SANDFACED



Texture
Indented



SHERWOOD RED MIXTURE



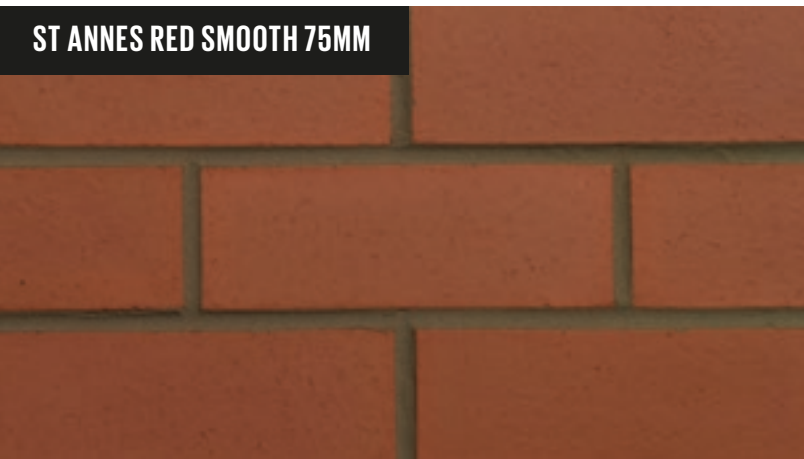
Texture
Indented



SOUTHDOWN MULTI



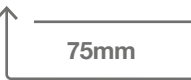
Texture
Rolled Back



ST ANNES RED SMOOTH 75MM



Texture
Smooth



SUNSET RED



Texture
Indented

YORK HOUSE

Originally an anonymous, almost forbidding, seven-storey office block constructed in the 1980s, York House on Pentonville Road in Islington has been transformed into a contemporary, light-filled co-working space fit for 21st century use.

The original building frontage was set back from the road, but the addition of a new five-story front extension introduces an attractive double-height entrance with offices above. Using similar engineering bricks to the main, original, building the new construction allows light to flood in through the structurally self-supporting perforated brick lattice, angled at 45 degrees to gain stiffness. A cross-laminated timber structure sits behind while openable windows allow fresh air to circulate.

The brick selected for the project was Blue Brindle Smooth - a high quality smooth brick that matches closely the masonry of the original building. The complexity of the lattice work structure required special shapes of brick and perforation to allow visibility through the bricks at the right points. Working closely with the architect, it took the team nine months of developing and testing to get the strength of the product right. Three lengths of brick were produced and used in the construction of the extension: 215s were used in the building of the chevron parapet, 345s were used on the parapet and alongside the entrance, and 440s were used to create the latticework on the main entrance.

ARCHITECTS
DE METZ FORBES KNIGHT



At roof level, a new cross-laminated timber structure, clad in a perforated zig-zag aluminium screen, echoes the front extensions while softening the building edge.





SURREY HILL RED MULTI

ECOSTOCK
BRICK

Texture
Creased



TAME VALLEY RED MIXTURE

BUTTERLEY
BRICK

Texture
Indented



TEVIOT RED

BUTTERLEY
BRICK

Texture
Indented

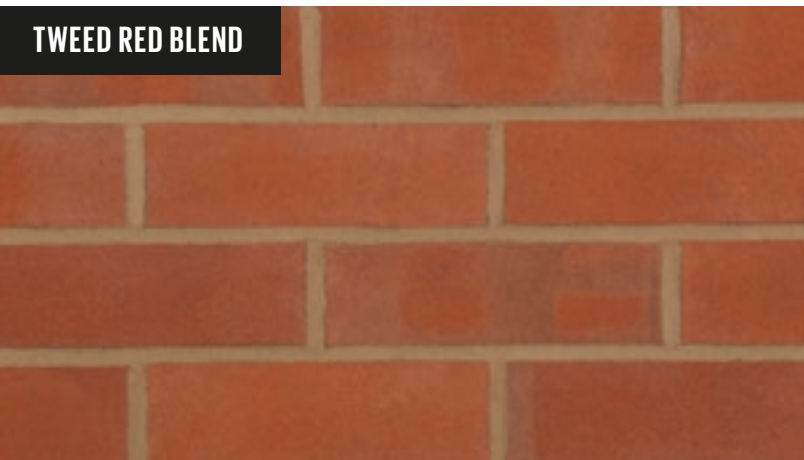


TUDOR

THE ORIGINAL
LONDON
BRICK

Texture
Indented

↑
65 & 73mm



TWEED RED BLEND

BUTTERLEY
BRICK

Texture
Sandfaced



VICTORIAN MIXTURE

BUTTERLEY
BRICK

Texture
Dragfaced



VICTORIAN MIXTURE

RED BRICKS



Texture
Indented



Texture
Indented

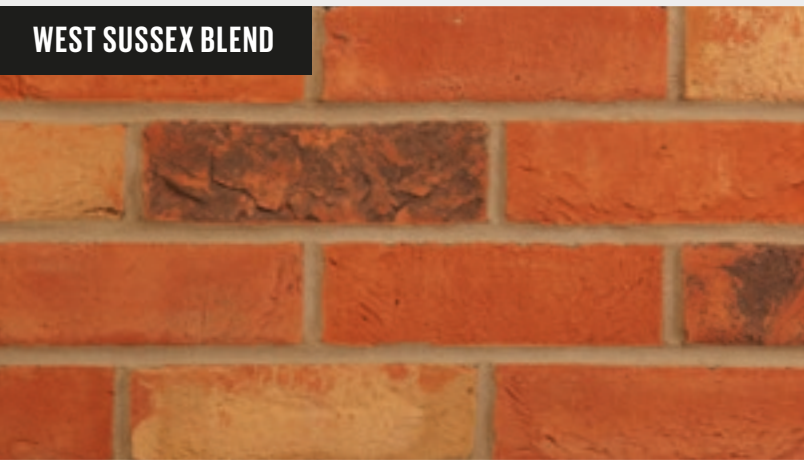


Texture
Dragfaced

ORDER YOUR
BRICK SAMPLES

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RED BRICKS



Texture
Creased



Texture
Creased



Texture
Indented

CASE STUDY

BURLINGTON HOUSE

Burlington House is a residential development of 91 one, two and three-bedroomed apartments. It sits within the Piccadilly Basin Masterplan designed to transform derelict buildings and post-industrial land into a vibrant and successful part of Manchester's city centre.

The irregularly-shaped site sits adjacent to the Grade II listed Jackson's Warehouse, the Rochdale Canal, and other heritage buildings, so it was important that the development be sensitive to its context. Designed in consultation with English Heritage, the building's architecture has moved away from the static rectilinear forms of traditional residential blocks towards a more dynamic structure.

Its outward appearance is that of a carved block, hewn from a solid material. This is achieved through the use of Forterra's Yorkshire Red Blend light textured bricks. Its colour echoes the rich pinks, reds, oranges and brown tones of the historic warehouses and built environment.

ARCHITECTS
SIMPSON HAUGH



Yorkshire Red Blend's colour echoes the rich pinks, reds, oranges and brown tones of the historic warehouses and built environment.



RED BRICKS



WOODSIDE MIXTURE



Texture
Indented



WOODSTOCK BLEND RESERVE



Texture
Rolled Back



WORCESTERSHIRE RED MULTI



Texture
Indented



YORKSHIRE RED BLEND



Texture
Sandfaced

INTRODUCING OUR WATERSTRUCK BRICK RANGE

A combination of timeless beauty and cutting edge production technology, the Shelton waterstruck adds an extra dimension to Forterra's Ecostock range of bricks, developed with the needs of architects and developers in mind.

The relatively smooth, sand-free texture of waterstruck bricks is a result of using water rather than sand to release these soft mud bricks from their moulds. The process of water striking the brick creates a lightly textured surface unlike that of any other brick.

Shelton waterstruck are manufactured using the latest technology in sustainability and production efficiency and meet the requirements of BES 6001 Responsible Sourcing certification.



RED BRICKS

SHELTON MELLOW



ECOSTOCK
BRICK

Texture
Waterstruck

SHELTON RED



ECOSTOCK
BRICK

Texture
Waterstruck

SHELTON RED MULTI



ECOSTOCK
BRICK

Texture
Waterstruck

SHELTON RUSSET



ECOSTOCK
BRICK

Texture
Waterstruck



BUFF BRICKS

BELGRAVIA GAULT BLEND

BUFF BRICKS

BELGRAVIA GAULT BLEND



ECOSTOCK
BRICK

Texture
Creased

BRAEMAR BUFF RUSTIC



BUTTERLEY
BRICK

Texture
Rusticated

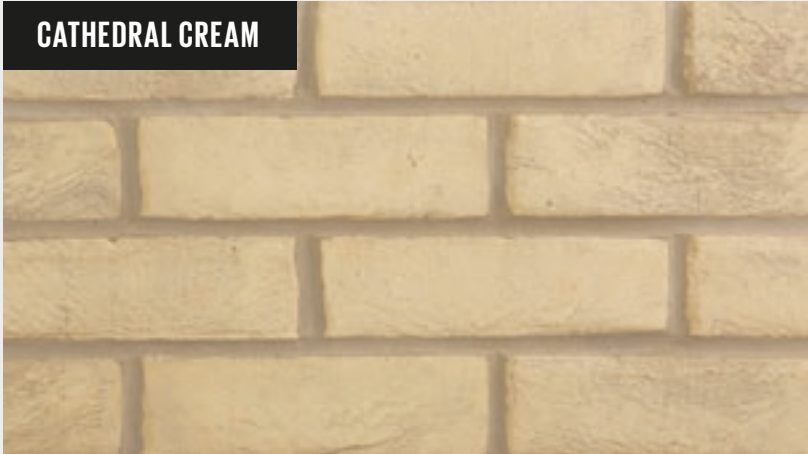
BURWELL BUFF



BUTTERLEY
BRICK

Texture
Indented

CATHEDRAL CREAM



ECOSTOCK
BRICK

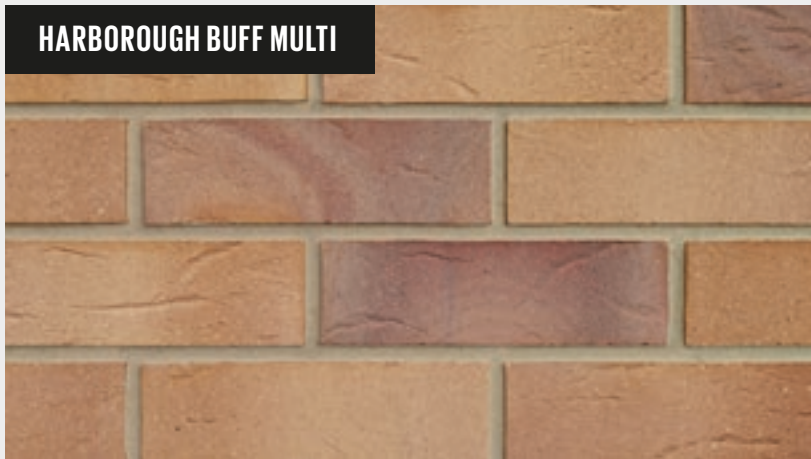
Texture
Creased



CUMBRIA BUFF RUSTIC



Texture
Dragfaced



HARBOROUGH BUFF MULTI



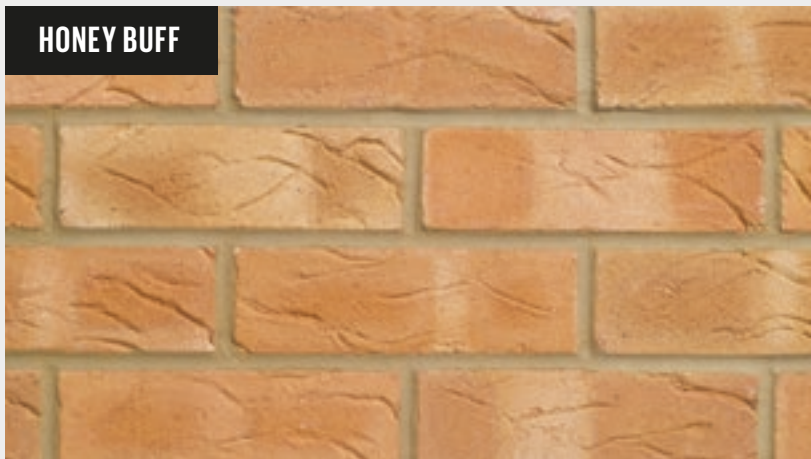
Texture
Indented



HEREWARD LIGHT



Texture
Sandfaced



HONEY BUFF



Texture
Indented



INGLEBOROUGH BUFF MULTI



Texture
Dragfaced



KENSINGTON CREAM



Texture
Creased



LEICESTERSHIRE RUSSET MIXTURE



Texture
Indented

ORDER YOUR
BRICK SAMPLES
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MILTON BUFF



Texture
Indented



NENE VALLEY STONE



Texture
Indented



OLD ENGLISH BUFF MULTI



Texture
Rusticated



RUFFORD BUFF MULTI



Texture
Smooth Sanded



CATHEDRAL CREAM



SHERWOOD BUFF MIXTURE



Texture
Indented

CASE STUDY

PENNYWELL LIVING

This large urban regeneration project in Pennywell, Edinburgh, included 719 new dwellings over four different brownfield areas with existing communities between them, meaning that linkage with the existing communities is essential.

The homes are arranged around a central open space within an area characterised by low density housing.

The predominant material in the overall development is brick - chosen for its durable, long-lasting qualities and ability to introduce consistency and identity. Zinc cladding, white brick and render, with key entrances defined by coloured blocks, also feature.

The design used a simple palette of materials and approach to detailing to bring a consistent and clear identity. The focus is on attractive, simple proportions, both in the form of the buildings and in the development of the elevations.

Two types of brick were proposed: one a red/brown multitone and the other a light brown/red multitone; to be used in conjunction with grey and dark grey roof tiles.

The architecture used throughout the development provides quality and variety. The buildings complement each other and create a distinct character and identity. The feature materials add to the rhythms and patterns in the elevations to create variety in the streetscape and mark key corners and frontages.

The extensive development is a result of an investment of £42 million by the City of Edinburgh Council and includes £7.9 million grant funding from the Scottish Government.

ARCHITECTS
BARTON WILLMORE



Village Harvest Multi was chosen for its durable, long-lasting qualities and ability to introduce consistency and identity.

BUFF BRICKS

SITTINGBOURNE BLEND



ECOSTOCK
BRICK

Texture
Creased

VILLAGE GOLDEN THATCH



BUTTERLEY
BRICK

Texture
Indented

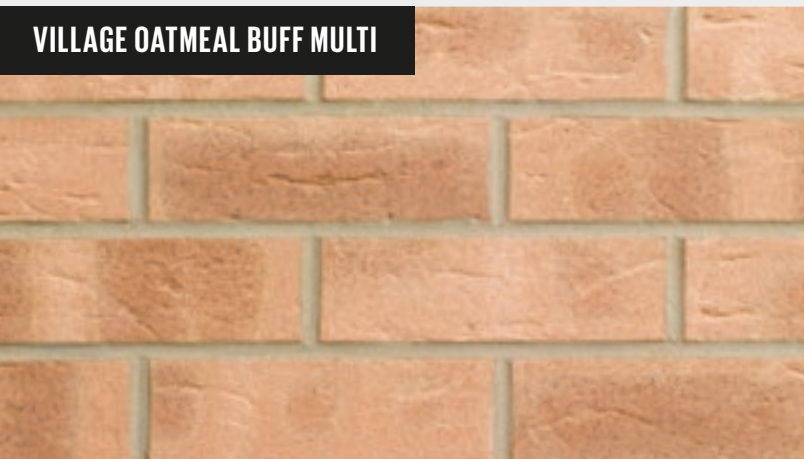
VILLAGE HARVEST MULTI



BUTTERLEY
BRICK

Texture
Indented

VILLAGE OATMEAL BUFF MULTI



BUTTERLEY
BRICK

Texture
Indented



ARDLEIGH YELLOW STOCK

YELLOW BRICKS

YELLOW BRICKS

ARDLEIGH YELLOW STOCK



ECOSTOCK
BRICK

Texture
Creased

ASHWELL YELLOW MULTI



BUTTERLEY
BRICK

Texture
Indented

GOLDEN BUFF



THE ORIGINAL
LONDON
BRICK

Texture
Sandfaced

IRONSTONE



THE ORIGINAL
LONDON
BRICK

Texture
Indented

CASE STUDY

THE ELMS

The village of Ewerby sits within the heart of the Lincolnshire Fens, amidst a heavy farming community highlighted and punctuated by the local architecture.

Historically, Lincolnshire villages produced their own, indigenous facing bricks from brick pits, and most farm buildings and tied cottages within this community are constructed from Ewerby Yellow facing brick. Together with local Ancaster limestone and handcrafted clay pantiles, this forms the palette of materials that are considered indicative of the local vernacular architecture. As such, careful consideration needed to be given to the choice of materials used in building The Elms.

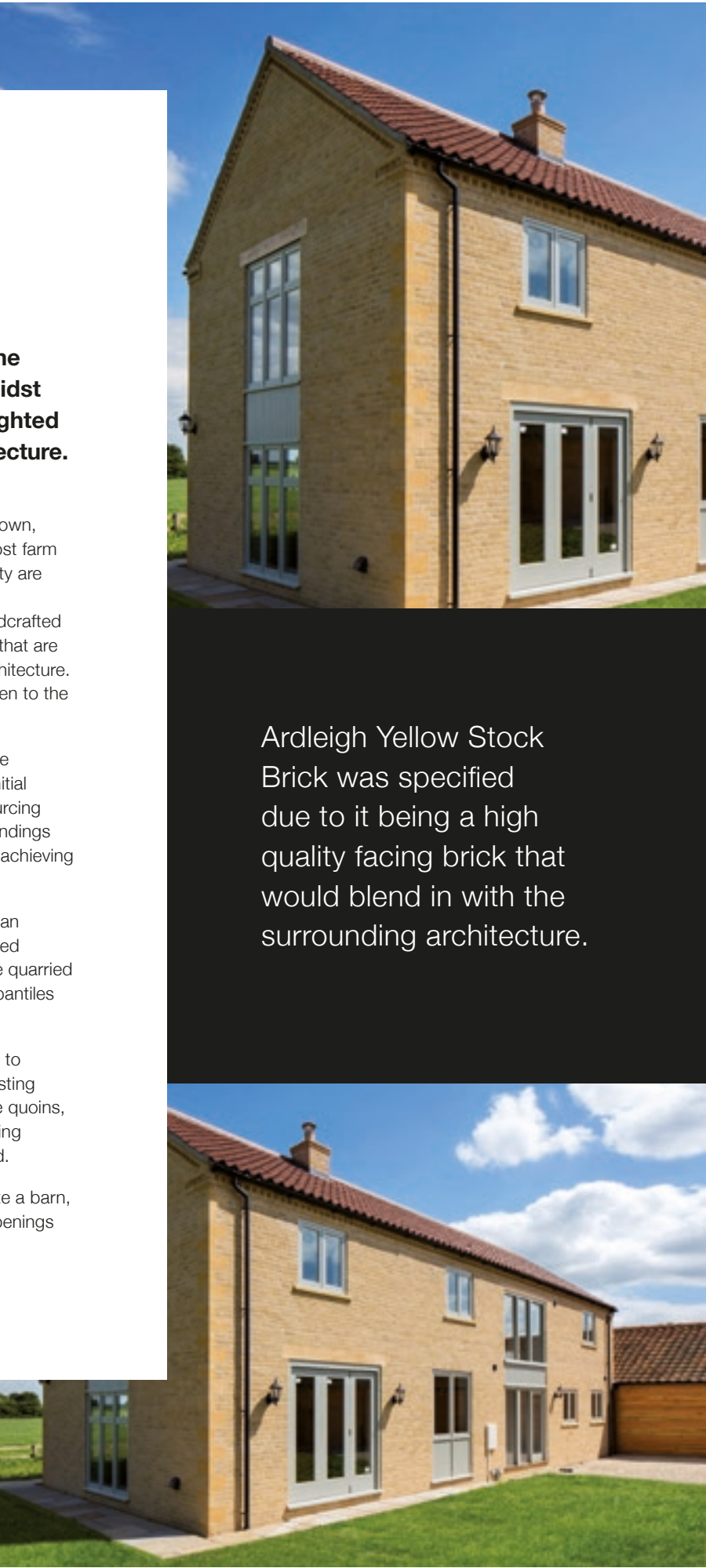
Combining existing detailing and colourings gave architects D.B. Lawrence Associates a strong initial concept for their first stage design process. Sourcing bricks and materials that blend with their surroundings can be challenging, but they were successful in achieving this for The Elms.

A yellow stock brick sourced from Forterra was an important part of the concept. The brick was used alongside the use of local Lincolnshire limestone quarried seven miles away at Ancaster. Handmade clay pantiles were sourced to match existing roof tiles.

The brickwork was constructed in English Bond to achieve the desired aesthetic and reflect the existing surrounding outbuildings. Complementary stone quoins, cills and heads together with dog-tooth oversailing courses to the eaves and verges were also used.

The overall intention of the dwelling is to replicate a barn, and careful thought and detailing to the large openings have helped to create the desired effect.

ARCHITECTS
D.B. LAWRENCE ASSOCIATES



Ardleigh Yellow Stock Brick was specified due to it being a high quality facing brick that would blend in with the surrounding architecture.

YELLOW BRICKS

LONGVILLE STONE



Texture
Indented

OLD ENGLISH MIXTURE RUSTIC



Texture
Rusticated

SAXON GOLD



Texture
Indented

ORDER YOUR
BRICK SAMPLES

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DARK MOROCCAN SMOOTH

BROWN BRICKS

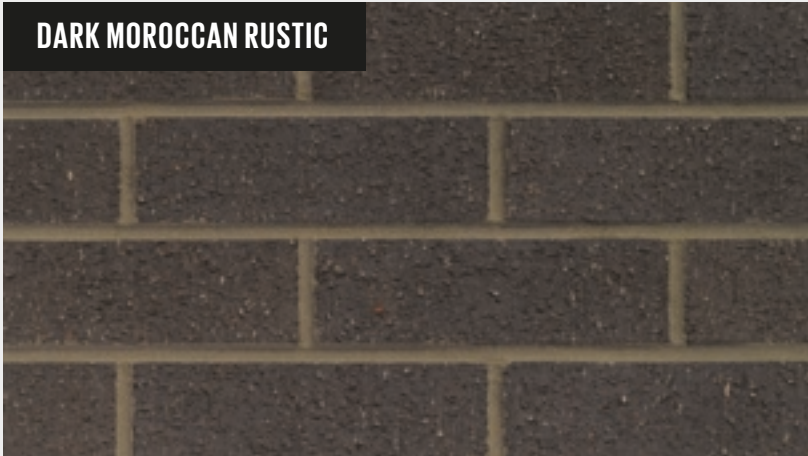
BROWN BRICKS



BROWN RUSTIC

BUTTERLEY
BRICK

Texture
Rusticated

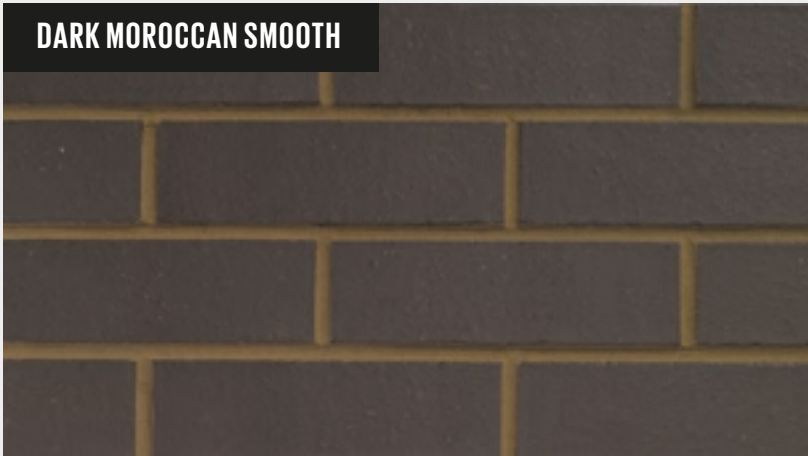


DARK MOROCCAN RUSTIC

BUTTERLEY
BRICK

Texture
Rusticated

↑
65 & 73mm

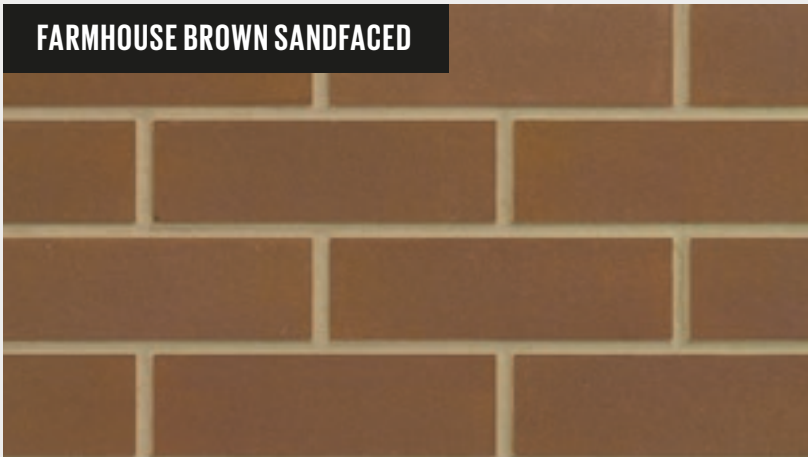


DARK MOROCCAN SMOOTH

BUTTERLEY
BRICK

Texture
Smooth

↑
65 & 73mm

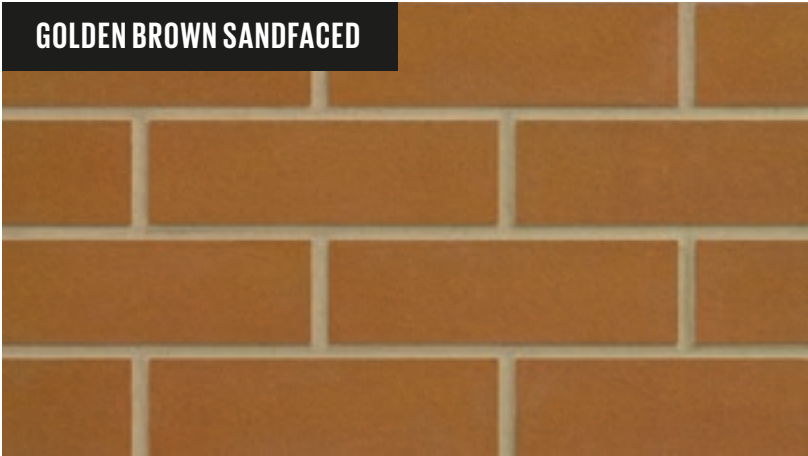


FARMHOUSE BROWN SANDFACED

BUTTERLEY
BRICK

Texture
Sandfaced

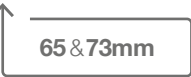
↑
65 & 73mm



GOLDEN BROWN SANDFACED



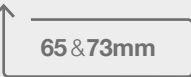
Texture
Sandfaced



MIXED BROWN BRINDLE RUSTIC



Texture
Rusticated



OCHRE BROWN



Texture
Indented



OLD ENGLISH RUSSET



Texture
Indented



VILLAGE HONEY GOLD



Texture
Indented

CASE STUDY

BRINKWORTH

Commissioned in north London, this new-build project within a conservation area needed to be discrete and respectful to fit in with the surrounding environment.

Forterra's Dark Moroccan Smooth Butterley brick was used to adhere to the necessary requirements along with a pitched roof and flush and square bay windows. The post-modernist build respects the immediate environment with regard to both material and form.

ARCHITECTS
BRINKWORTH



This build was shortlisted for a BDA Brick Award in the Individual Housing Development category.



BLUE, BLACK & GREY BRICKS

BLUE SMOOTH

BLUE BRICKS



BLUE RUSTIC

BUTTERLEY
BRICK

Texture
Rusticated

65 & 73mm



BLUE SMOOTH

BUTTERLEY
BRICK

Texture
Smooth

65 & 73mm

BLACK BRICKS



CARBON BLACK RUSTIC

BUTTERLEY
BRICK

Texture
Rusticated

BLACK BRICKS



CARBON BLACK SMOOTH



Texture
Smooth



BRINDLE



Texture
Indented



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GREY BRICKS



AVIEMORE GREY BLEND



Texture
Creased



BRECKEN GREY



Texture
Indented



CHATSWORTH GREY RUSTIC



Texture
Rusticated



COTSWOLD



Texture
Indented



DAPPLE LIGHT



Texture
Sandfaced



DUNEDIN GREY STOCK



Texture
Creased



GRANITE ASH



Texture
Indented



GREYFRIARS GAULT BLEND



Texture
Creased



MILTON HALL DARK BLEND



Texture
Creased



MILTON HALL LIGHT BLEND



Texture
Creased

BESPOKE BLENDS SERVICE

CREATE YOUR OWN

Forterra's blended brick service allows you to create your own bespoke combination of brick colours and textures from our Butterley, Ecstock and London Brick ranges.

COUNTY RED SMOOTH AND
DARK MULTI SMOOTH BLEND

Blending brick colours and textures is an effective method of achieving a bespoke aesthetic that satisfies architects and planners. Bricks can be blended to produce an even distribution of colour or texture across the whole facing brick façade, or to create intricate brick patterns typical of the Victorian era.

BESPOKE BRICK BLENDS



FOR TIPS ON BRICK BLENDING

SEE PAGE 75

SPECIAL SHAPED BRICKS

CRADLEY

SPECIAL BRICK

YOUR VISION INTO REALITY

Cradley specialises in the manufacture of handmade British Standard, non-standard and tailor-made bricks. A long-time favourite of architects, restoration specialists and house builders, they provide the detail that can transform the ordinary into the extraordinary and, occasionally, the award winning.

Cradley can produce non-standard and bespoke brick specials to almost any design, shape and in a variety of different sizes to create unique brickwork features and detailing.

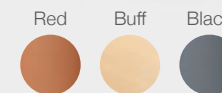
The Cradley Special Brick team create products for heritage restoration projects alongside those for renovations, extensions and modern builds, whether it's producing a large run of British Standard bricks or carefully crafting a bespoke special.

Whatever the complexity, scope or scale of your project, the team will work with you to find the best solution for your timescale, budget and, of course, aesthetic requirements – whether you need one or 100,000 special shaped bricks.

BRITISH STANDARD SPECIAL SHAPED BRICKS

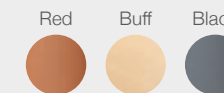
AN.1 SQUINT

(left or right hand)

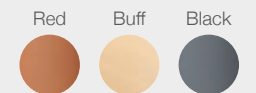


AN.5 SINGLE CANT

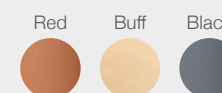
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AN.6 DOUBLE CANT

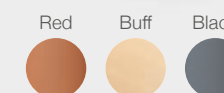


AN.12 DOUBLE CANT STOP END

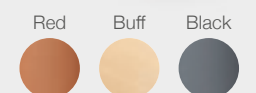


BN.1 SINGLE BULLNOSE

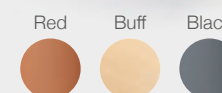
(left or right hand)



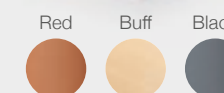
BN.2 DOUBLE BULLNOSE



BN.5 SINGLE BULLNOSE HEADER ON FLAT

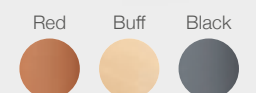


BN.19 EXTERNAL RETURN TO DOUBLE BULLNOSE ON EDGE AND TO BULLNOSE DOUBLE HEADER ON FLAT

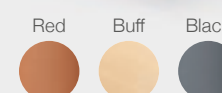


PL.2 PLINTH HEADER

(left or right hand)

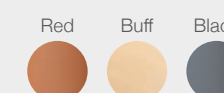


PL.3 PLINTH STRETCHER



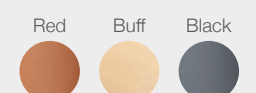
PL.4 PLINTH INTERNAL RETURN - LONG

(left or right hand)



PL.7 PLINTH EXTERNAL

(left or right hand)



THE INTERLOCK

Located in London's Fitzrovia – where Riding House Street opens to Wells Street – sits The Interlock, a new five-storey mixed-use building designed by Bureau de Change architects for developer HGG London, a company established to commission design-driven innovative architecture.

Riding House Street hosts an extraordinary breadth of architectural styles. From John Nash's All Souls church at its most easterly point, the street skips haphazardly from 19th Century terraces to post war commercial buildings; concrete slab structures and 20th Century apartment blocks. The street's piecemeal aesthetic is unified by the use of brickwork which serves as the façade material of choice, at times so abundant that it forms the road surface.

Abandoning the traditional dimensions of London brick, a collection of 44 misshapen and seemingly un-stackable clay blocks were developed.

The patterns visible across the surface are informed, in part, by the interactions between materials and structure. The bricks appear to lap up against glazing, swell and bow between floors and are inset frame-like to denote the building's perimeter. For passers-by, the bricks appear to morph and twist like cogs. By modelling the facade in 3D, each facet could be individually adjusted to meet structural and fabrication requirements without diluting the integrity of the surface form.

Staffordshire Blue Clay was selected as a contrast to the areas existing brickwork. The marl clay was set into 14 hand-crafted steel moulds and fired in oxidation to create the matt blue finish. After firing, these 14 'parent' bricks were divided to form the 30 'offspring'. Construction of the 5,000 block landscape took place over three months. The fabrication team used 1:1 printed templates that set out the number, typology and location of each brick. When collated on site, these 188 templates appeared like a construction manuscript, with each brick a different note to lay.

Co-founder and Director of Bureau de Change Billy Mavropoulos explained: "We worked iteratively with the team at Forterra – adapting and reviewing the bricks in 3D. We were walking the line of what would be technically possible, but through this process, found a point that was both buildable and produced the richness and movement we were trying to achieve."



We worked iteratively with the team at Forterra - adapting and reviewing the bricks in 3D.

ARCHITECTS
BUREAU DE CHANGE ARCHITECTS



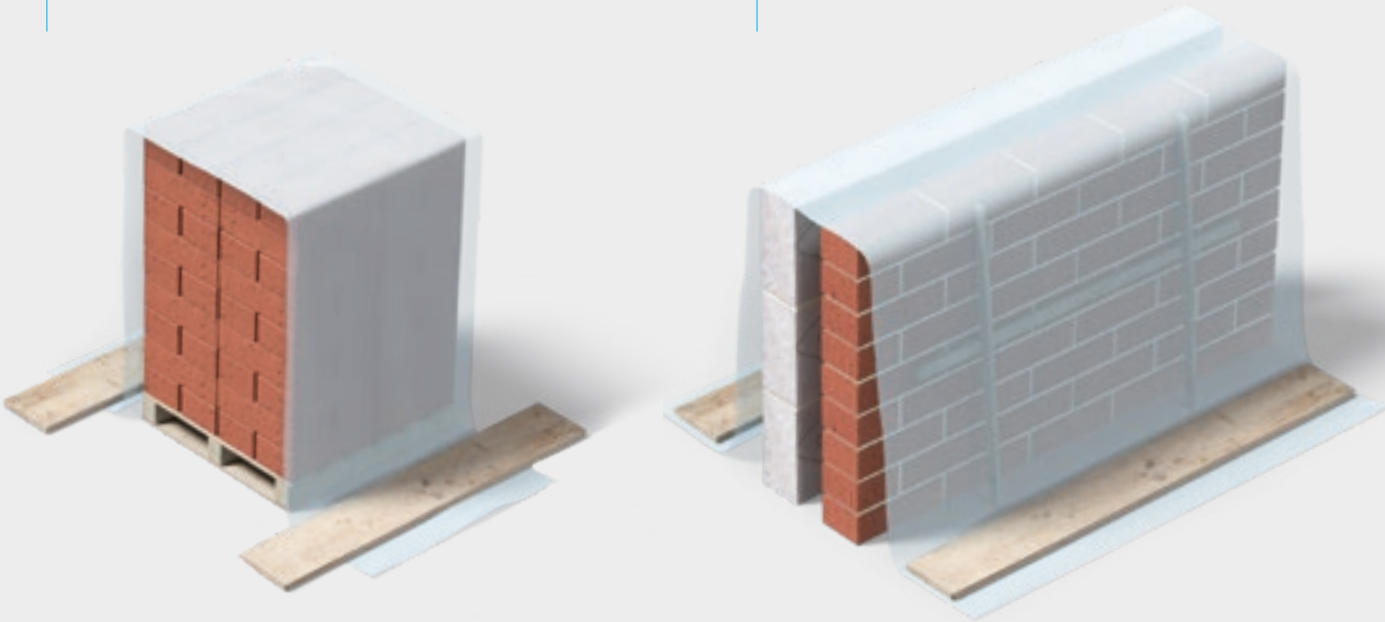
TECHNICAL & DESIGN CONTENT

PROFESSIONAL TIPS FOR BETTER BRICKWORK

Make life easier with these simple tips which can save you time and money on your build.

BRICK STORAGE

Bricks should be stored on a level, free-draining surface that is protected from the elements. Packs should be protected from inclement weather (rain and frost) using re-usable tarpaulin or similar over the top of the consignment.



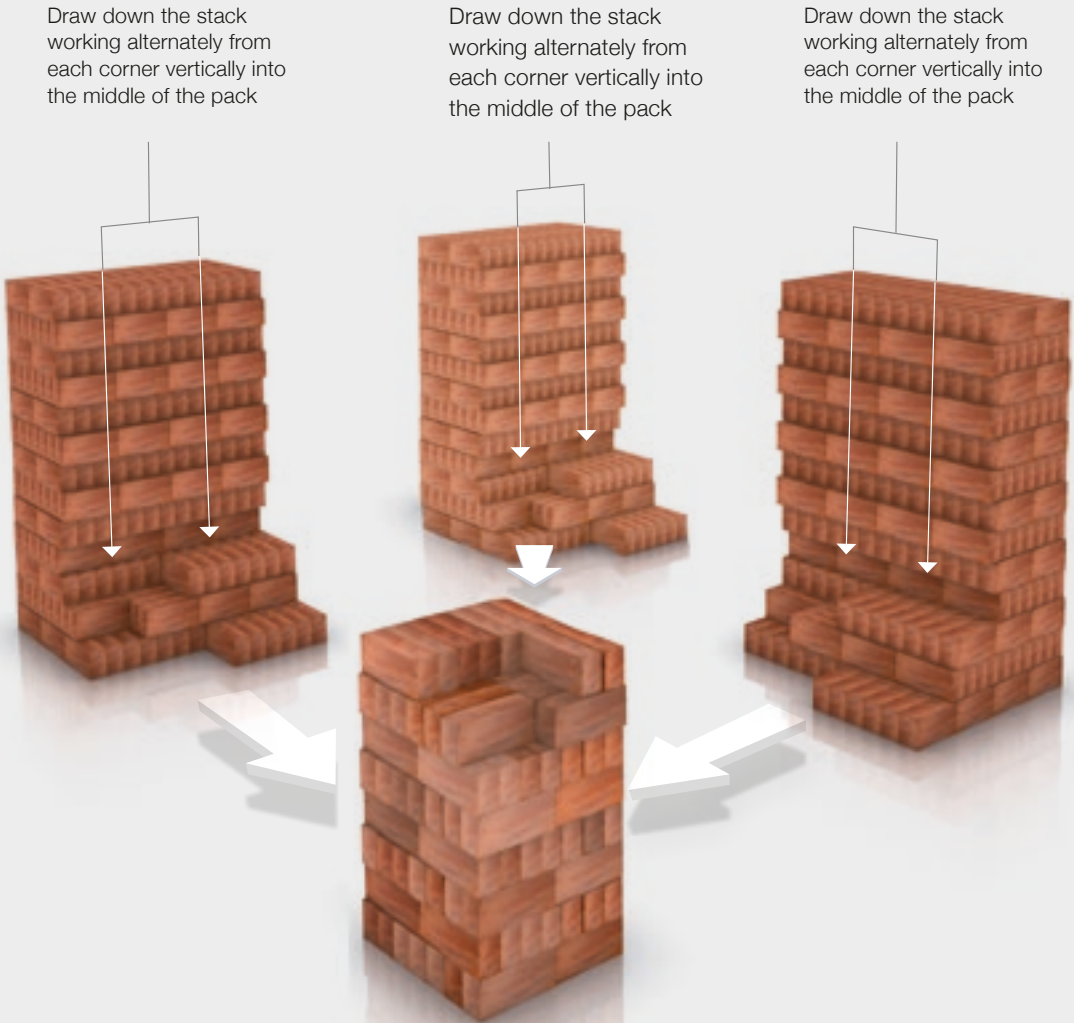
PROTECTION OF NEWLY BUILT BRICKWORK

When work stops or is interrupted by inclement weather conditions, brickwork should be protected immediately with waterproof sheeting held in place with a suitable fixing. If new brickwork is not protected, lime stains, efflorescence and patchy mortar colour can occur. It should also be noted that the laying of brickwork should be discontinued when the temperature falls below 3°C or when frost is imminent.



BLENDING BRICKS

Bricks should be loaded-out from a minimum of 3 packs and overlapped between deliveries, where possible. It is advisable to draw from the packs in vertical rather than horizontal slices. Doing this helps avoid colour patchiness or banding in the brickwork.



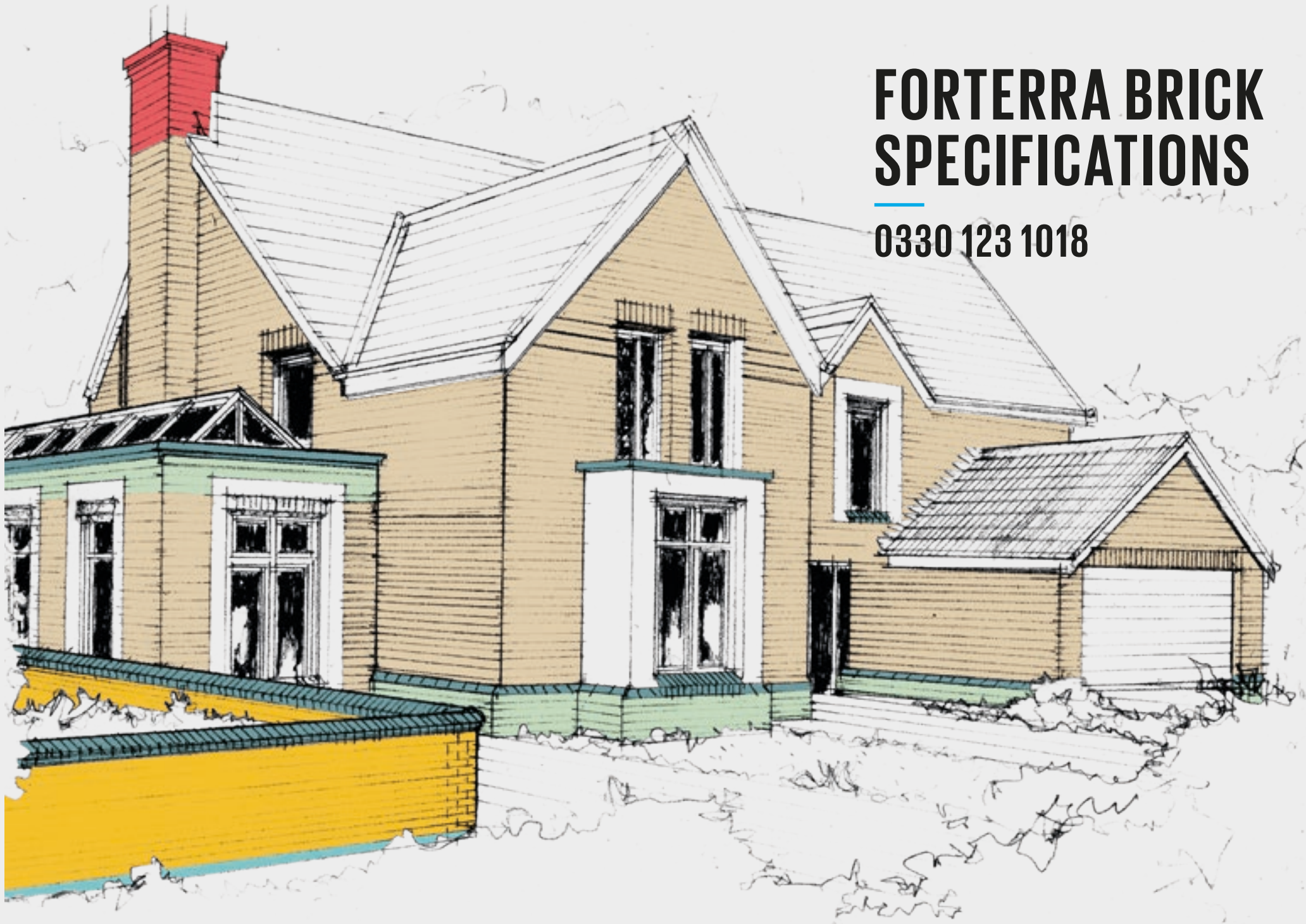
DURABILITY RATINGS

CYCLIC FROST RESISTANCE

These declarations are important when considering the specifications of a brick in certain constructional positions.

- Durability Recommendation**
“F2/S2” brick due to regular saturation and exposure to cyclic frost in these building locations. Smooth faced, Class B Engineering bricks are sometimes preferred to reduce organic growths in these locations.
- Durability Recommendation**
Class B Engineering brick.
- Durability Recommendation**
“F1 or F2” brick subject to geographical and topographical exposure conditions (please refer to Forterra Technical Department for further advice).
- Durability Recommendation**
“F2/S2” brick with a water absorption $\leq 7\%$, Forterra soft mud or Class B Engineering brick.
- Durability Recommendation**
“F2/S2” brick.
- Durability Recommendation**
Solid Class B Engineering brick.

FORTERRA BRICK
SPECIFICATIONS
0330 123 1018



FROST PROTECTION

It is important to follow the below mentioned good building practice details when constructing walls and other vulnerable structures. Care should always be taken to observe relevant design details and current codes of practice.

FREESTANDING WALLS

Freestanding walls can be subjected to severe weather conditions. In order to minimise frost damage careful consideration must be paid to the following aspects of design:

Class B quality bricks should be used from foundation level to 150mm (minimum) above ground level (M12 mortar or 1 : ¼ : 3). this will also act as a rigid DPC.

The main body of the wall should be constructed in "F2/S2" quality facing bricks (M6 mortar or 1 : ½ : 4½).

All copings must be "F2/S2" with a water absorption ≤7%, Forterra soft mud or Class B Engineering brick (M12 mortar or 1 : ¼:3)

We recommend that drip channels are introduced on all copings to shed rain clear of the wall face.

Drip channels should have sharp edges and be free from mortar or other obstruction.

Copings should overhang the wall face by at least 40mm.

"F1" quality bricks must not be used in any component of a freestanding wall.

Mortar joints are not impervious to moisture. This is resolved by using a high bond continuous damp proof membrane immediately below the copings, projecting at least 13mm beyond the mortar. A flexible DPC should be avoided at all times as this will reduce overall structural stability.



EARTH RETAINING WALLS

Where brickwork is in direct contact with retained earth, it is exposed to ground water which invariably contains salts.

To minimise the risk of efflorescence on the exposed face of the wall, a waterproof barrier between the retained earth and the brickwork should be provided.

The waterproof barrier will also aid in the minimisation of frost damage and sulphate attack.

All other detailing should be in accordance with that stated for a freestanding wall.

Rendering of the wall is not recommended under any circumstances.

A cement rich M12 mortar (1 : ¼ : 3 cement : lime : sand or equivalent) should be used for cappings and copings on both freestanding and retaining walls.

FROST ATTACK

In extreme conditions even frost resistant F2 bricks have been known to fail. Where there is a likelihood of long term saturation during cyclic frost conditions, it is advisable to choose a brick of high strength and low water absorption as an added precaution.



BRICK DESIGN CONSIDERATIONS

BRICK BOND PATTERNS

The purpose of bonding is to make brickwork uniform in structure and composition and to maximise its strength, durability and visual appeal. Here are five of the most popular bonding patterns used in the UK.



Stretcher Bond



Stack Bond



English Bond



Flemish Bond



Header Bond

TALK TO OUR
TECHNICAL TEAM
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MORTAR COLOURS

Mortar colour can have a significant impact on the look of a building as mortar typically represents around 17% of the total visible brickwork area. When choosing mortar colours it may be advisable to construct sample panels on site.



MORTAR JOINT PROFILES

The purpose of finishing joints is to improve the rain resistance and visual appeal of the wall by compacting the surface of the mortar and pressing it into contact with the bricks. Below are five mortar joint profiles commonly used in the UK.



Recessed*
Mortar is raked out to leave the edge of the brickwork exposed, picking out individual bricks, creating a shadow effect.



Weathered Struck
The inset edge of the joint should be around 2mm and the forward edge should finish on the edge of the brick.



Weathered Struck & Cut
The inset edge of the joint should be around 2mm and the forward edge should project around 2mm beyond the brick surface.



Bucket Handle
The mortar is 'tooled' to leave a concave, rounded joint.

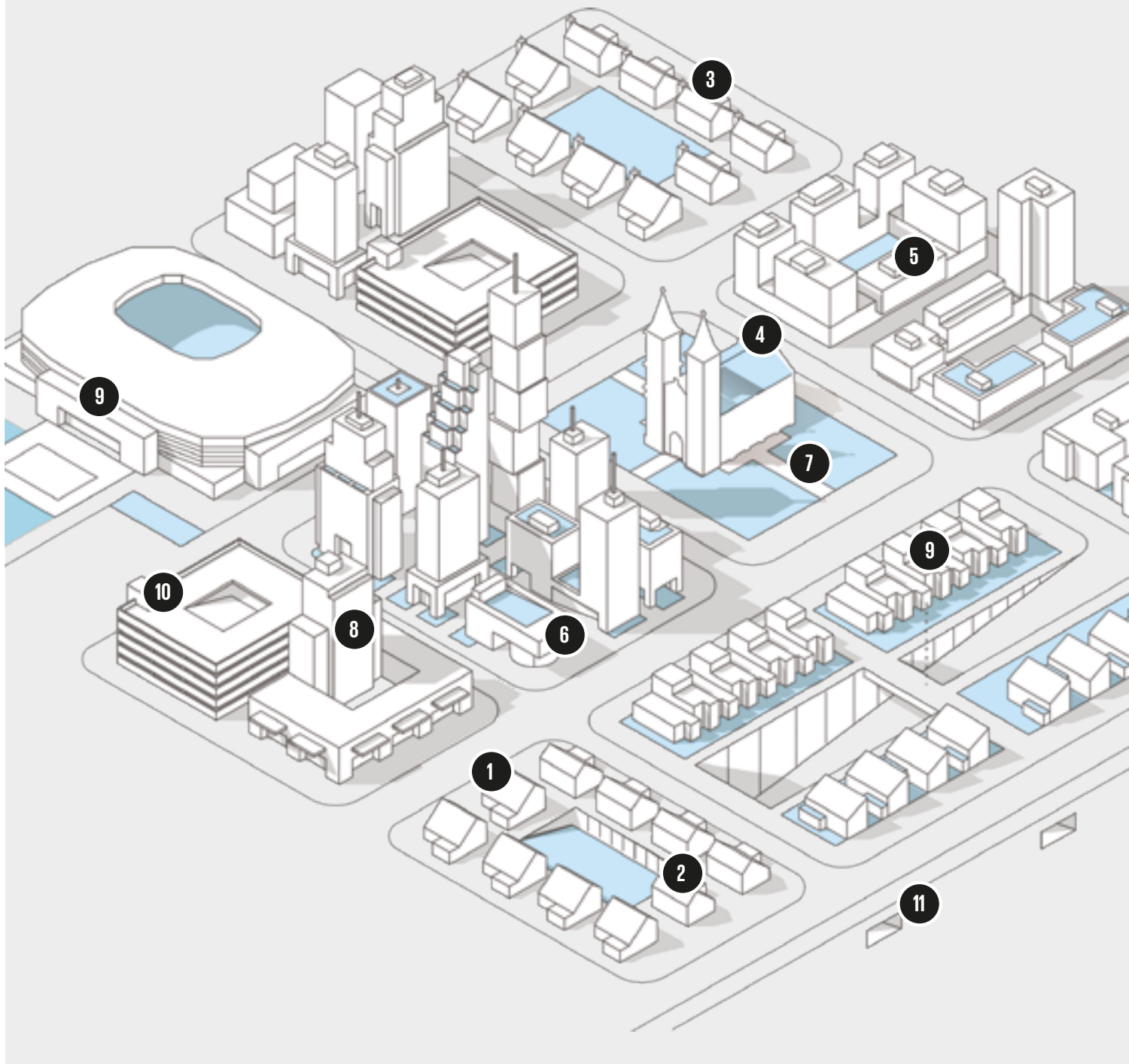


Flush
The edge is finished flush with the brickwork surface.

*Recessed joints are not recommended - where recessed joints are specified, please contact the technical department for further guidance.

THE COMPLETE FORTERRA RANGE

Our extensive product range covers all your construction requirements, from initial ground work through to finished build.



1. BRICKS & BLOCKS

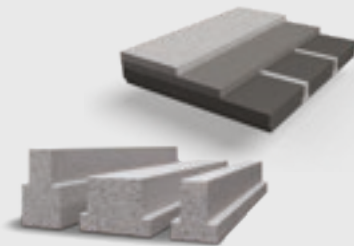
LONDON BRICK
ECOSTOCK
BUTTERLEY

THERMALITE
CONBLOC



2. PRECAST CONCRETE

JETFLOOR
BEAM & BLOCK



3. CHIMNEY & FLUE SYSTEMS

RED BANK



4. RIDGE TILES & FINIALS

RED BANK



5. AIR BRICKS & CAVITY WALL BRIDGING DUCTS

RED BANK



6. SPECIAL SHAPED BRICKS

CRADLEY



7. PERMEABLE PAVING SYSTEMS

FORMPAVE



8. WALLING & CLADDING SYSTEMS

SUREBRICK



9. PRECAST CONCRETE

HOLLOWCORE



10. PRECAST CONCRETE

STAIRS AND LANDINGS



11. PRECAST CONCRETE

BOX CULVERTS



TALK TO OUR SPECIALISTS

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SUSTAINABILITY

Bricks are an inherently sustainable building material. They are durable, require little or no maintenance, and can be recycled at the end of their use. They also contribute to thermal mass, resulting in buildings which need less energy for heating and cooling.

THE CLAY BRICK: INHERENTLY SUSTAINABLE

The history of the clay brick can be traced back for centuries, its versatility and longevity proven through countless historic buildings that are centuries old. Development of new technologies and improvements in efficiency have significantly reduced the energy intensity required during manufacture.

Typical buildings constructed from clay brick have lifetimes exceeding 150 years, the streets of the UK are lined with homes constructed in Victorian times. These robustly built homes are now highly sought after due to their well-proportioned interiors, and typically larger than average outside spaces. The clay brick construction alongside the availability of outside space has allowed extension and structural adaption of these buildings to modify and modernise them as needs have changed. The timeless beauty and longevity of these buildings is a continuous advert for clay brick construction, however, times do change and on occasion brick buildings reach the end of their useful life and are demolished. The bricks themselves can be reclaimed and reused if in good condition, or alternatively be crushed and fed back into construction activity as an alternative raw material.

Our latest factories are significantly less carbon intensive than previous generation facilities, however, the carbon intensity of clay brick manufacture remains significant, due to kilns that are fired by natural gas and the carbon released from the clay during the firing process.

When considering the longevity of a clay brick building, the full lifecycle impact of the embodied carbon is incredibly low, alongside this, brick structures require little to no maintenance through their lives, whilst other comparable materials may require additional applications of protective coatings or surface treatments to enhance their lifetime.

As our climate changes, with more extremes of temperature, clay brick is well placed to construct buildings suitable for such a changing environment. The thermal mass properties of clay bricks naturally absorb heat, creating a heat buffer and helping prevent the inside of buildings overheating during the summer. During the colder months, bricks store heat through sunny days and slowly release this back as the temperature falls, helping to warm the building.

Brick sustainability

- Little or no maintenance required in use
- Contributes to thermal mass
- Provides heat and noise insulation
- Excellent fire resistance
- Allows the flexibility for buildings to be altered for re-use
- Recyclable
- A natural and traditional building material with pleasing aesthetic qualities
- A+ rating in the BRE Green Guide Forterra brick sustainability
- All bricks are certified as 'very good' under BES 6001 - Responsible

Sourcing of materials

- All bricks are manufactured in accordance with ISO 14001 - Environmental Management System
- A significant number of Forterra bricks include recycled content
- Locally sourced raw materials
- Strict waste minimisation schemes

TO FIND OUT MORE ABOUT HOW FORTERRA EMBEDS SUSTAINABILITY THROUGHOUT ITS BUSINESS IN THE UK VISIT OUR WEBSITE.

forterra.co.uk

