Forterra is a leading manufacturer of a diverse range of clay and concrete building products used extensively within the construction sector, and employs over 1,800 people across 18 manufacturing facilities in the UK.

It is the second largest brick and aircrete block manufacturer in the country and the only producer of the iconic London Brick. Other trusted brands from Forterra include Thermalite, Conbloc, Ecostock, Butterley, Cradley, Red Bank, Bison Precast, Jetfloor and Formpave.

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Forterra Building Products Ltd 5 Grange Park Court Roman Way Northampton NN4 5EA

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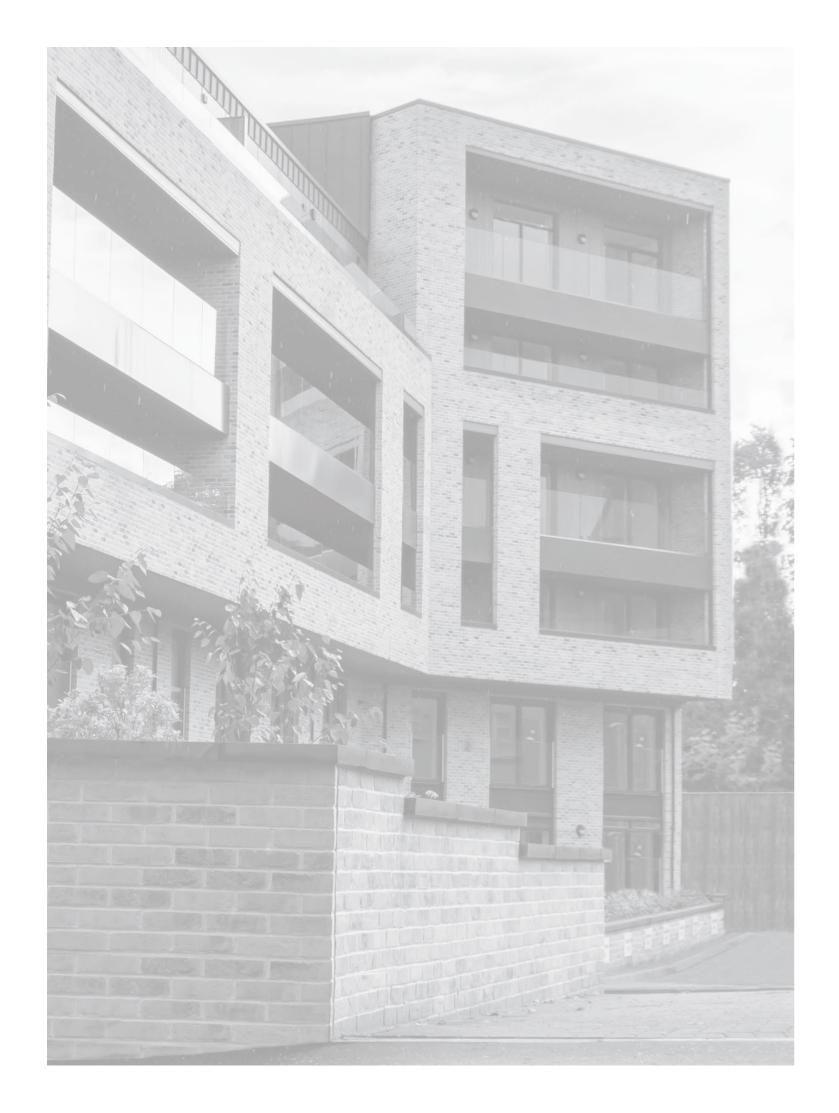
BUTTERLEY

ECOSTOCK





# CK GUID





# KEEPING Britain Building

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. Today, Forterra continues to be a prominent investor and innovator in the development of building materials and employs almost 1,800 people across 18 manufacturing sites. Alongside craftsmen employing centuries-old techniques to create bespoke products for restoration or one-off projects, the company also operates state-ofthe-art manufacturing facilities with an annual production capacity of over half a billion bricks.

At its nine 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.

Forterra is making significant investment in a project that will see its Desford plant become the largest and most efficient clay brick factory in Europe, deploying advanced levels of automation to deliver market leading efficiency and sustainability. On completion, the new factory will be capable of producing 180 million bricks per annum.

#### INTRODUCING OUR BRANDS

#### LONDON

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.

#### **ECOSTOC**

Ecostock bricks are manufactured at our Measham factory 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.

Alongside its sustainability credentials, Ecostock's appeal as a housebuilding brick is enhanced by its rustic finish, simulating the look of a handmade brick.

#### BUTTERLEY

Synonymous with brick making in the UK for 150 years, the current range of Butterley wirecut extruded bricks are available in a choice of colours and textures, offering everything you need from classic to contemporary.

On average, we manufacture 200 million Butterley bricks a year enough to build 25,000 new homes. With a £95-million investment in the expansion of our Desford factory, annual production capacity will increase to nearly 300 million by 2022, supporting residential construction needs and Keeping Britain Building.

#### CRADLEY

The team at Cradley Special Brick are expert in matching existing brickwork on a period building or taking a client's brief to create to something unique and tailor-made for a piece of contemporary architecture.

Their skill and know-how in manufacturing British Standard, nonstandard and tailor-made bricks has made Cradley Special Brick 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. And they can help you to turn your vision into reality, too.









#### CONTENTS

#### Be Inspired

#### **Red Bricks**

Smooth Light Textured Heavy Textured Stock Pressed Stock Thrown Tumbled Waterstruck

#### **Buff Bricks**

Light Textured Heavy Textured Stock Thrown

#### Yellow Bricks

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#### Brown Bricks

Smooth Textured Light Textured Heavy Textured Tumbled

#### Blues, Black and Grey Bricks

Smooth Blue Heavy Textured Blue Smooth Black Heavy Textured Black Light Textured Grey Heavy Textured Grey Tumbled Grey

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#### Brick Guidance and Technical

Professional tips for better brickwor Frost protection Brick design considerations

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Forterra: The Sustainable Choice

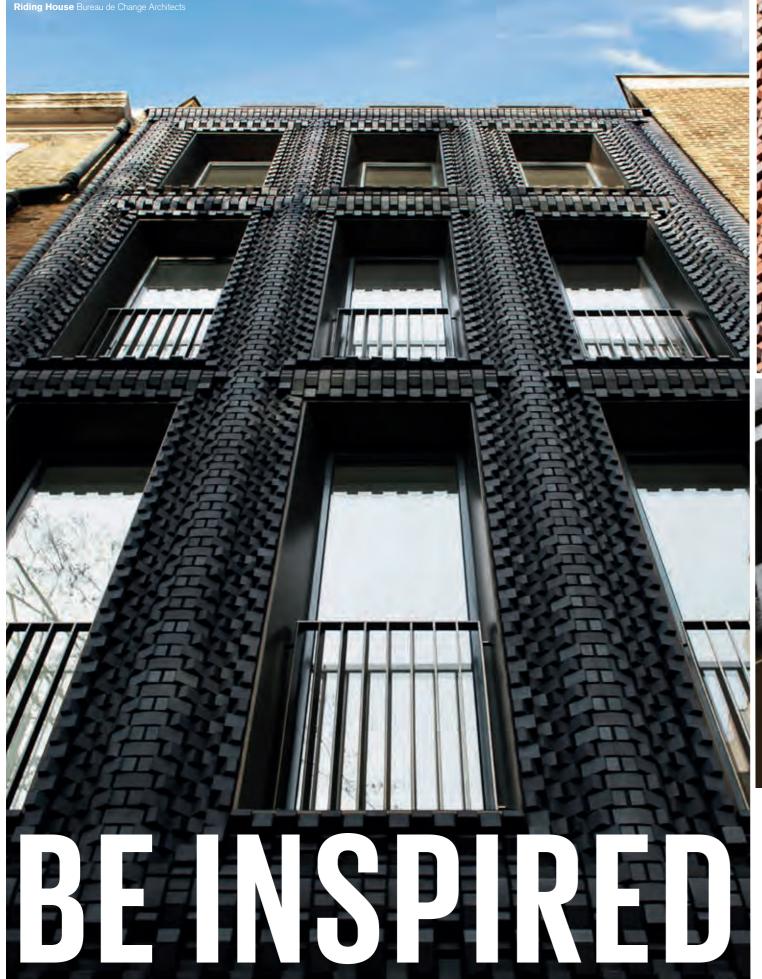
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Forterra's Bespoke Blend Service

specifications without prior notification.

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All dimensions are in mm, drawings not to scale and all sizes nominal. The colours in this brochure are as true as can be obtained by the normal printing process. Forterra is committed to a programme of continuous product development and reserves the right to alter

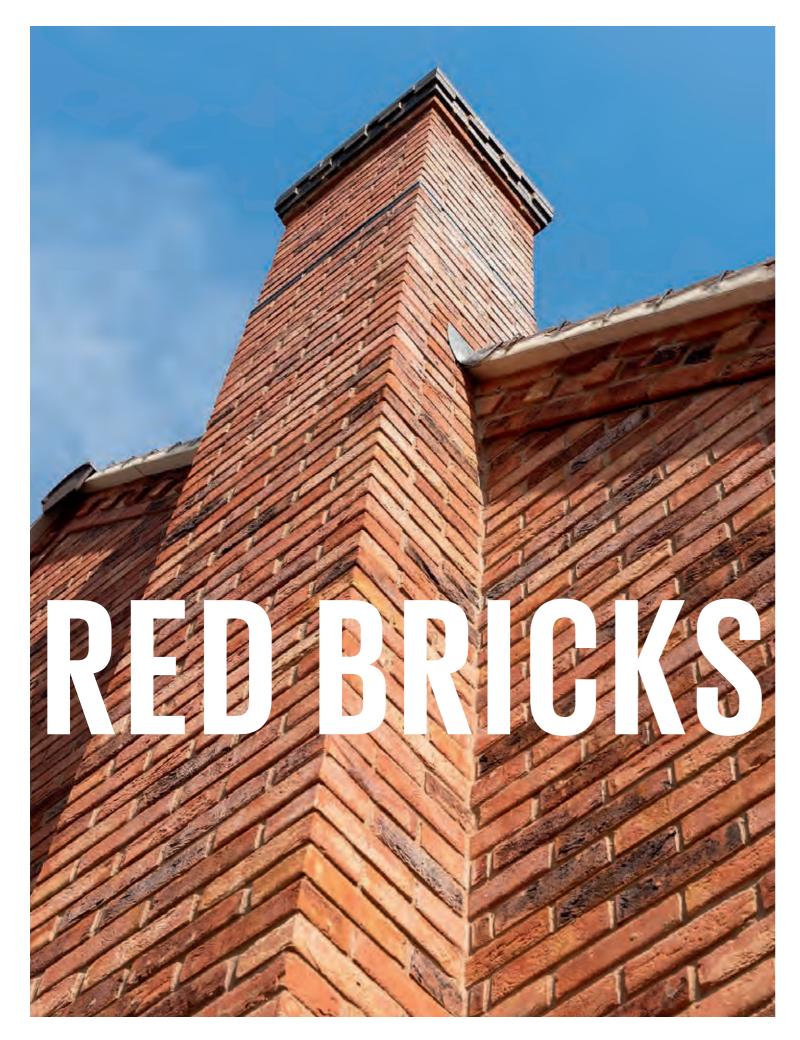




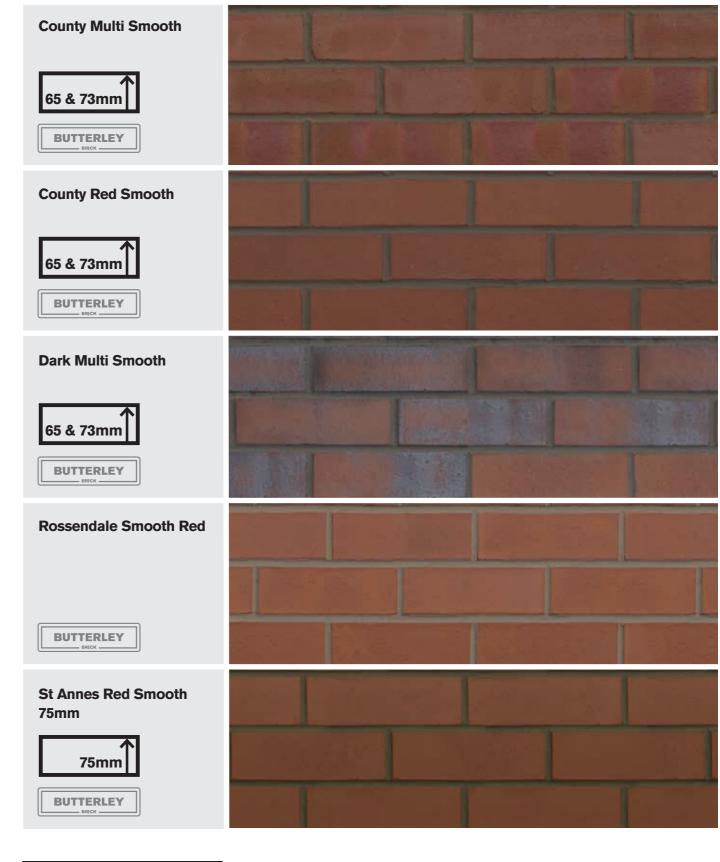
# CLAY BRICK SUSTAINABLE, DURABLE, BEAUTIFUL

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.

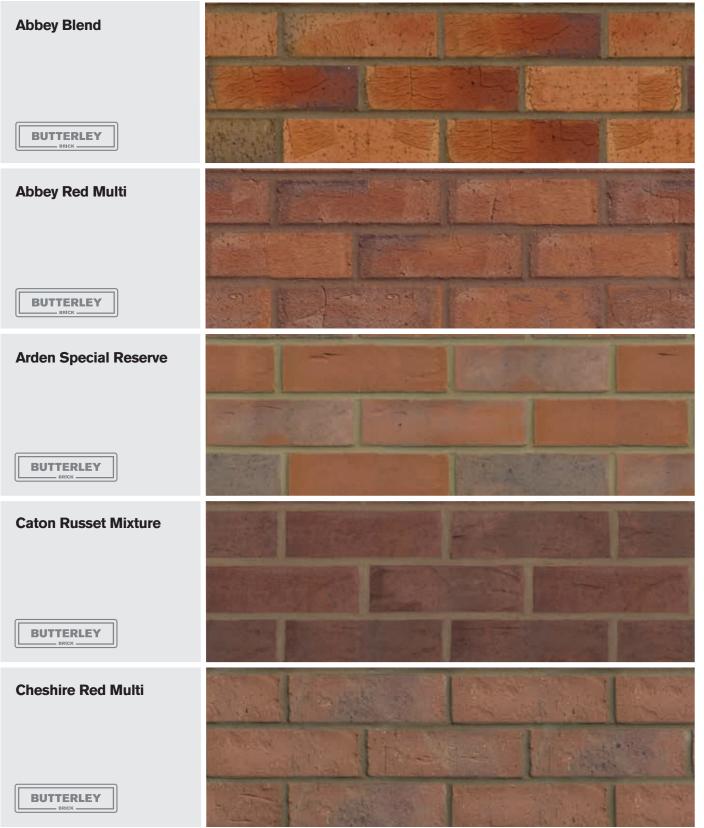
The wide variety of textures, colours, sizes and shapes of clay brick available from Forterra provide endless possibilities for aesthetic design, from traditional to contemporary.



## **SMOOTH TEXTURED RED BRICKS**

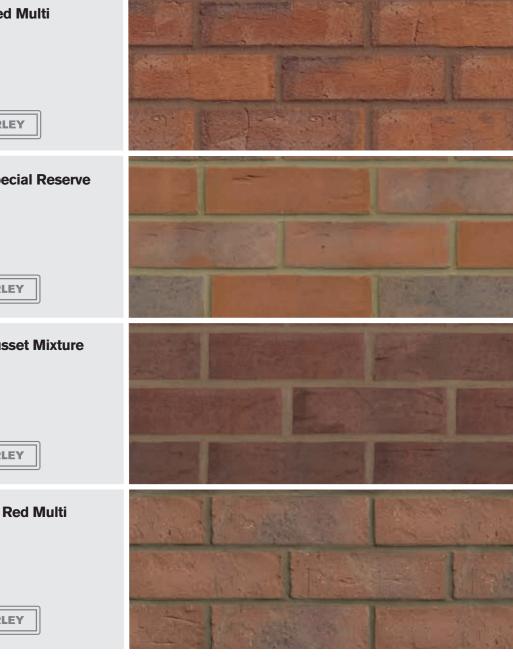






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LIGHT TEXTURED RED BRICKS

# **CASE STUDY PIMHOLE**

A new, high-quality housing development on Wilson Street has transformed the Pimhole area of Bury.

The development of 104 homes, a major part of the regeneration plans for the area, was designed by architects Stride Treglown and is being built by Prospect GB.

The layout of the scheme reflects and respects the existing street pattern while creating a contemporary and vibrant image which celebrates change.

It features a range of modern and traditional architectural styles, giving each property its own distinct personality, but the whole development has a cohesive look through the clever use of a limited palette of robust building materials.

Bricks were specified for their low maintenance requirement and naturally high thermal mass that helps to provide a highly insulated, airtight envelope, resulting in low running costs.

#### THE BRICK CHOSEN WAS FORTERRA'S CHESHIRE **RED MULTI. WHICH FEATURES A RANGE OF SOFT.** WARM HUES THAT RANGE FROM PINK THROUGH TO ORANGE AND DEEP RED.

It is a light textured brick with a modern finish that works perfectly with the timber cladding and off-white rendered sections of the houses and is a natural fit with the dark window frames and roof tiles.

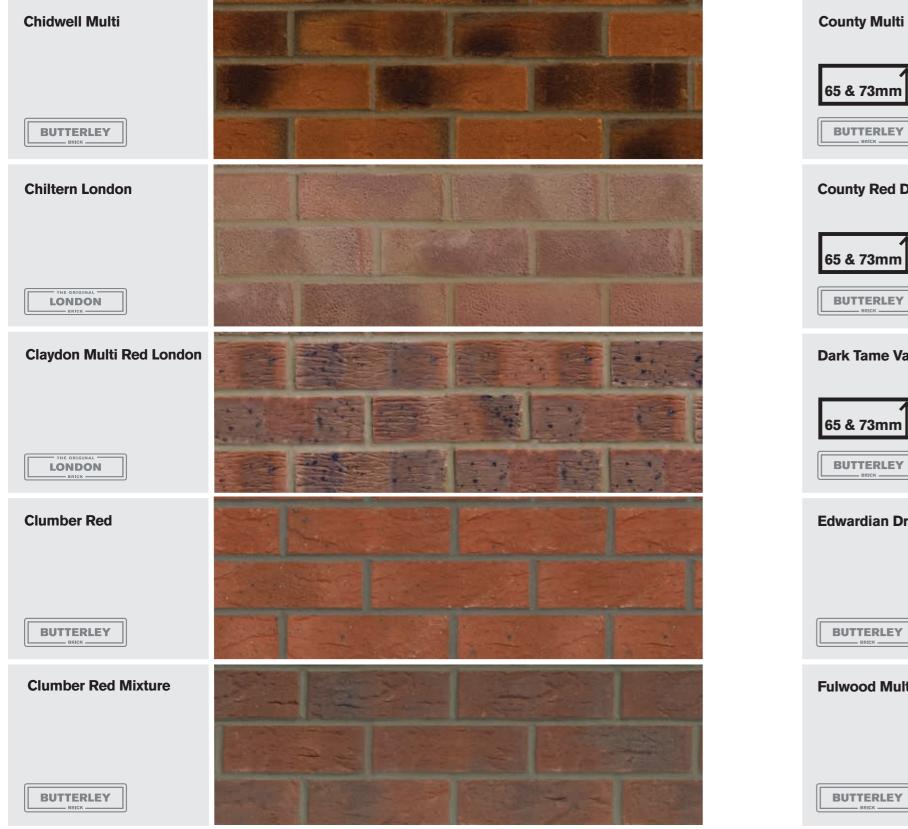
"As the main facing material, brick was crucial for this project and it took a long time to select the right one," said architect Sebastian Gugalka.

"The colour had to blend with the existing brick terraces in the area and Forterra's Cheshire Red Multi stitches in nicely with the surrounding context, offering a modern twist to the development when combined with the large block form of the properties. It was the perfect choice in terms of aesthetics and cost."

The range of two, three, four and five bedroom homes offers a number of styles, including some versatile three-storey formats, within easy reach of Bury town centre. The scheme is designed to be used as a blueprint for other areas in the future.

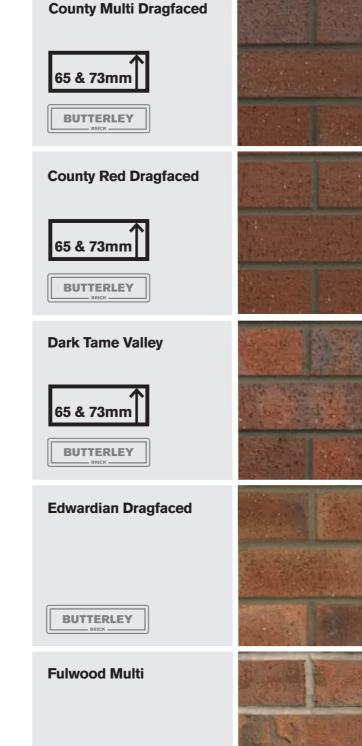
Architects: Stride Treglown Contractors: Prospect GB







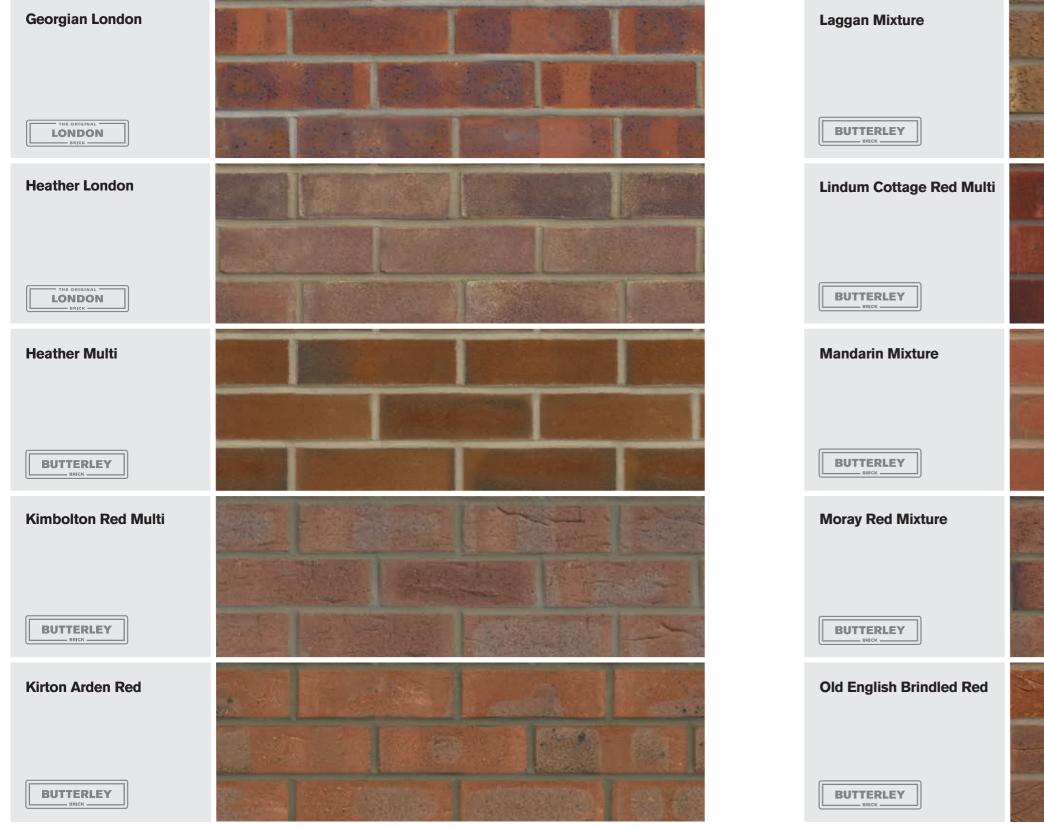
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LIGHT TEXTURED RED BRICKS



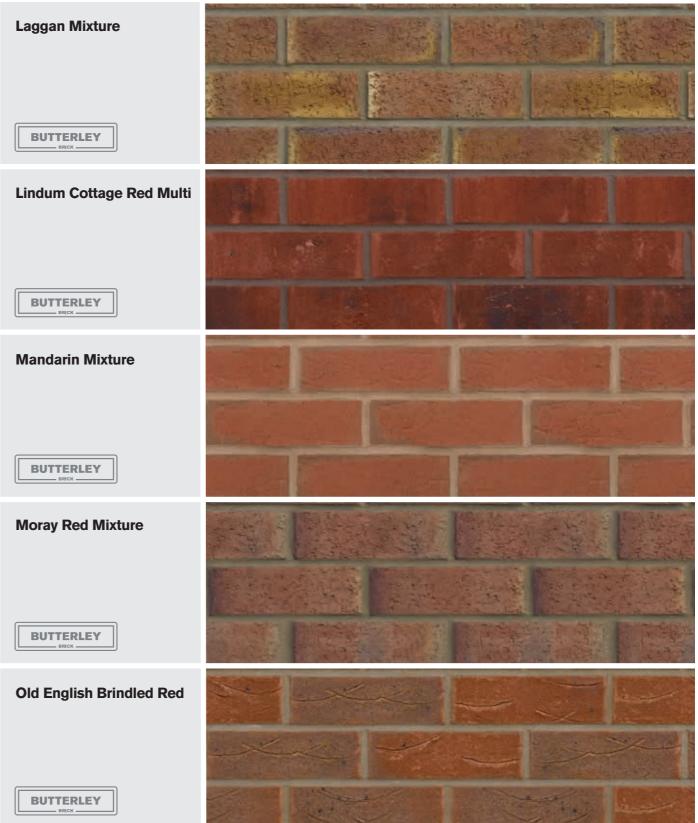




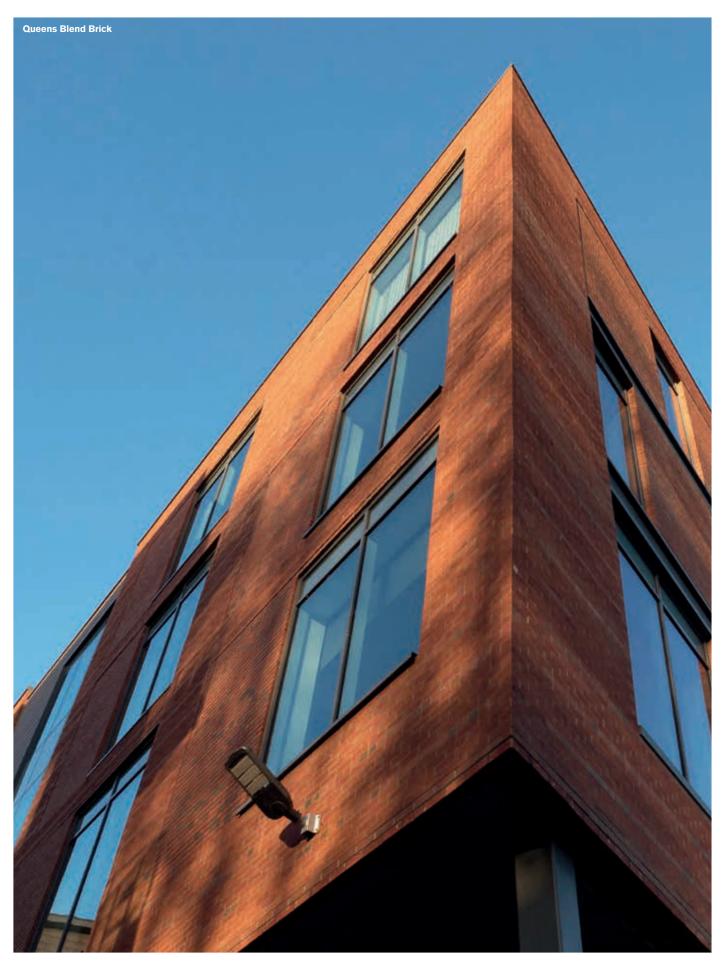


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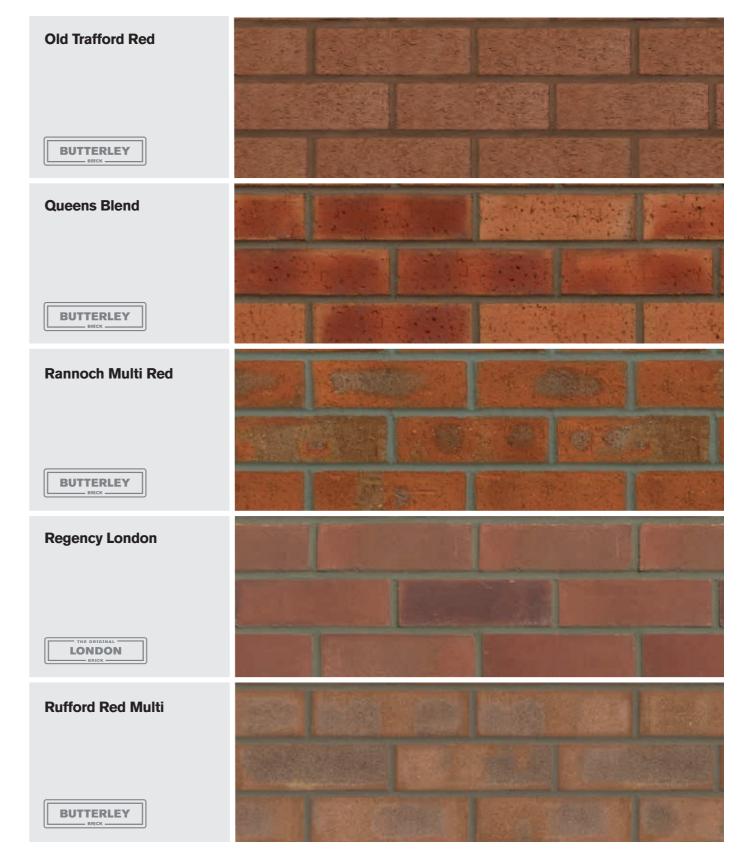




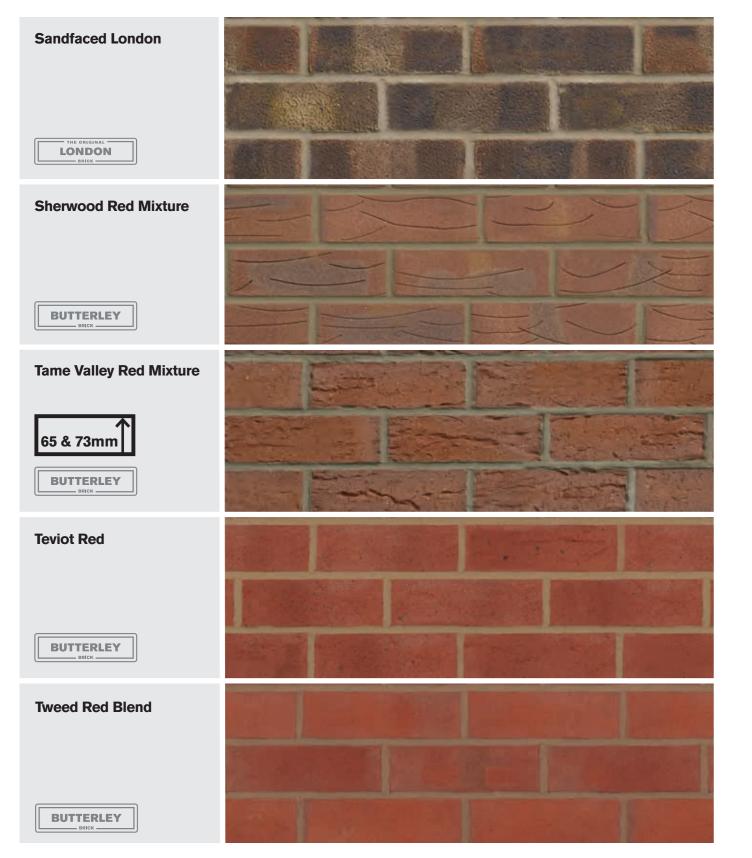


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## LIGHT TEXTURED RED BRICKS

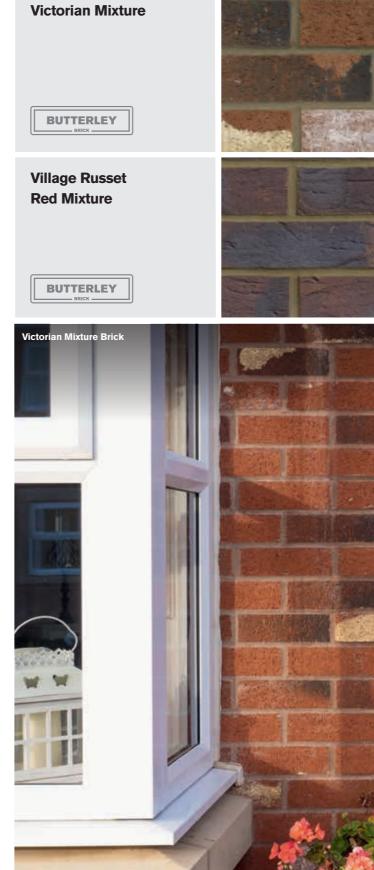






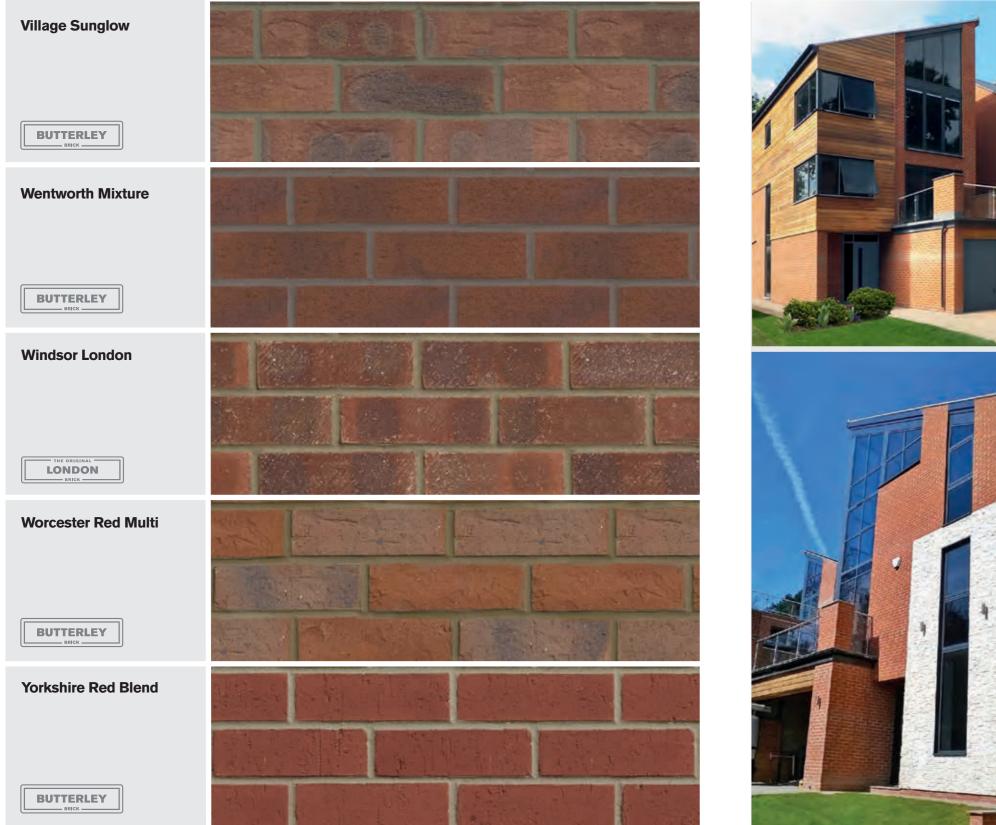


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LIGHT TEXTURED RED BRICKS







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#### LIGHT TEXTURED RED BRICKS







The properties were economically designed with underfloor heating, air source heat pumps, and a high level of insulation to keep running costs down.

Including the latest interior finishes, each home also offers something different, from cinema rooms to beautifully landscaped terraces.

# **CASE STUDY ALEXANDRA PARK**

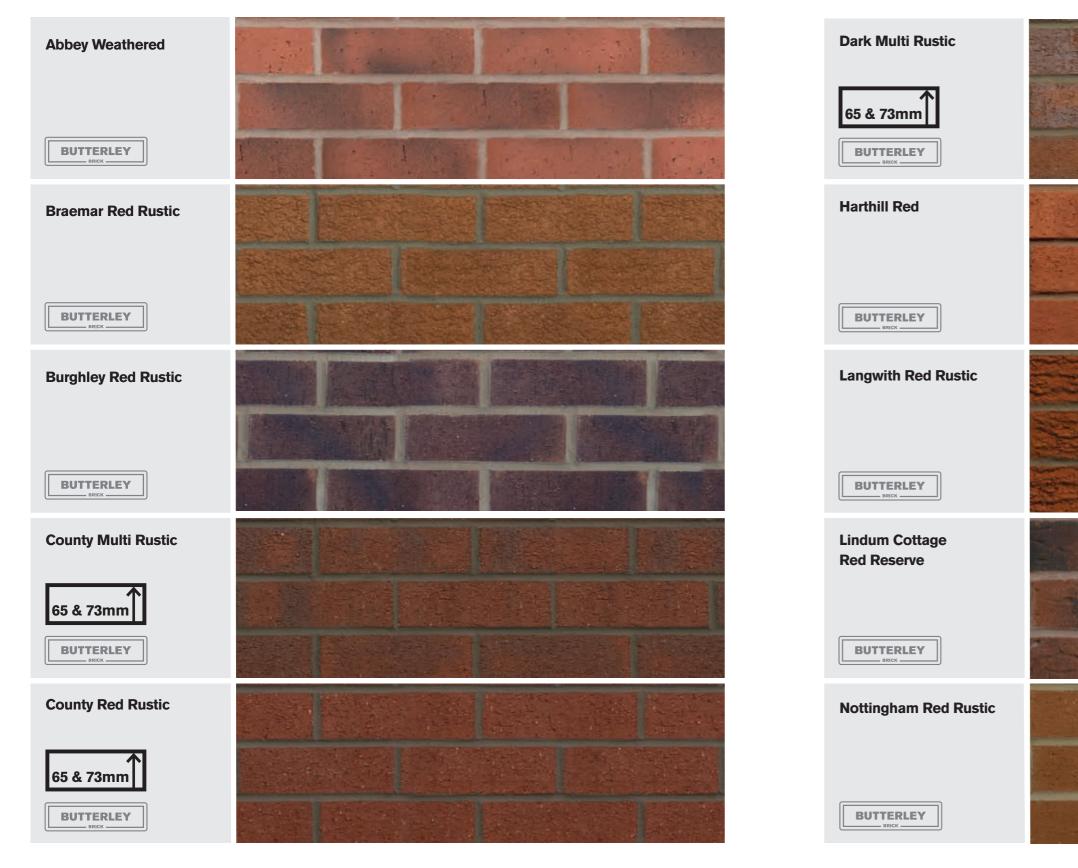
Alexandra Park is a new development of 15 individually designed four- and five-bedroomed homes set in over four acres of mature woodland in Nottingham.

Each home in this secluded development was built over three storeys and designed and styled with the latest contemporary finishes, both inside and out. With a gated entrance, the private development is set down into its own valley, but still has breath-taking views of the city.

#### FORTERRA'S MANDARIN MIXTURE AND **YORKSHIRE RED BLEND BUTTERLEY BRICKS** WERE CHOSEN TO MEET THE DEVELOPMENT'S HIGH SPECIFICATION REQUIREMENTS.

Architects: Guy Phoenix

#### **HEAVY TEXTURED RED BRICKS**



**HEAVY TEXTURED RED BRICKS** 

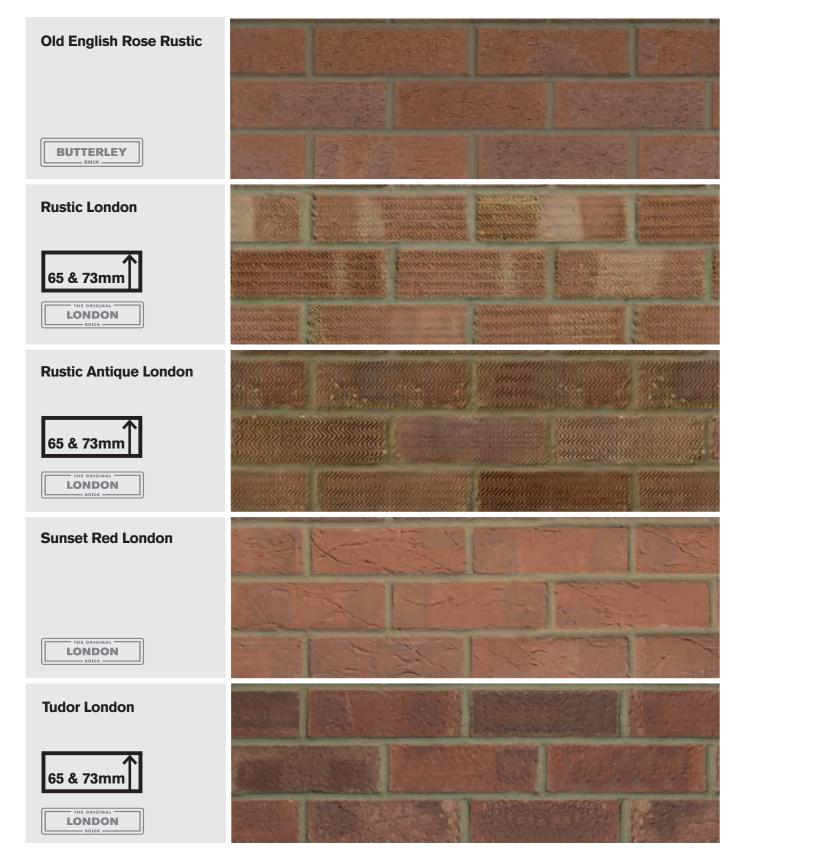
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#### **HEAVY TEXTURED RED BRICKS**





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# CASE STUDY YORK HOUSE

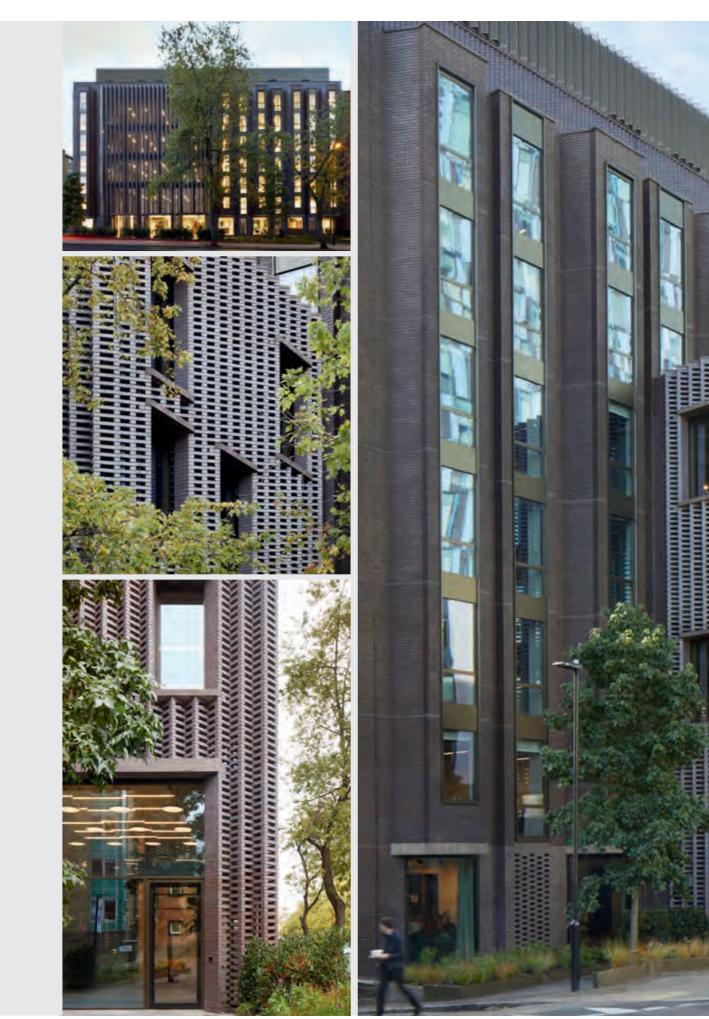
Originally an anonymous, almost forbidding, seven-storey office block constructed in the 1980s, York House on Pentonville Road in Islington has been transformed into a contemporary, light-filled co-working space fit for 21st century use.

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.

#### AT ROOF LEVEL, A NEW, CROSS-LAMINATED TIMBER STRUCTURE, CLAD IN A PERFORATED ZIG-ZAG ALUMINIUM SCREEN, ECHOES THE FRONT EXTENSION WHILE SOFTENING THE BUILDING EDGE.

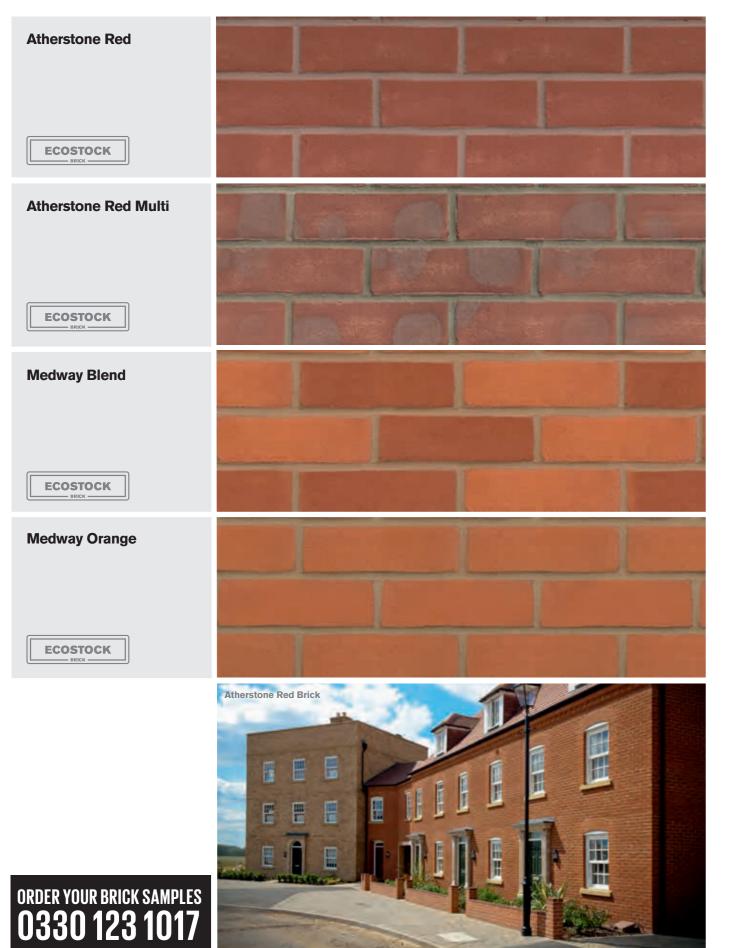
The brick selected for the project was Blue Brindle Smooth a high quality smooth brick that matches closely the masonry of the original building. The complexity of the lattice work structure required special shapes of brick and perforation to allow visibility through the bricks at the right points. Working 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

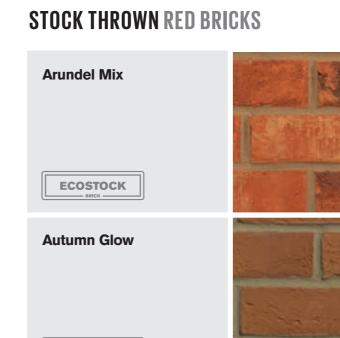




#### **STOCK PRESSED RED BRICKS**



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ECOSTOCK

**CASE STUDY** 

LANE

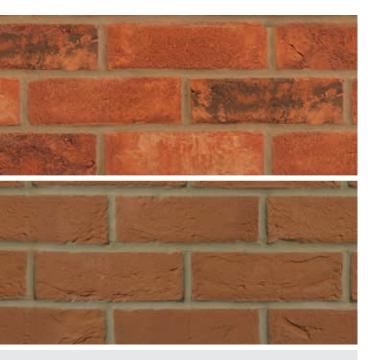
**OVERSLADE** 

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



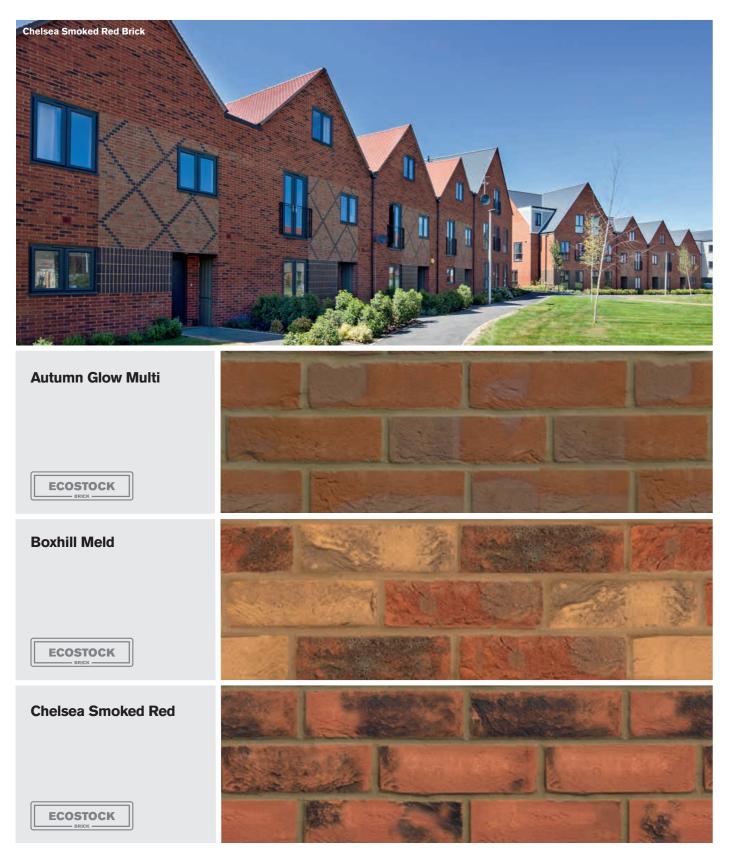
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This prestigious three-storey new build property in the village of Bilton was designed following close liaison with the local planning authority to ensure empathy

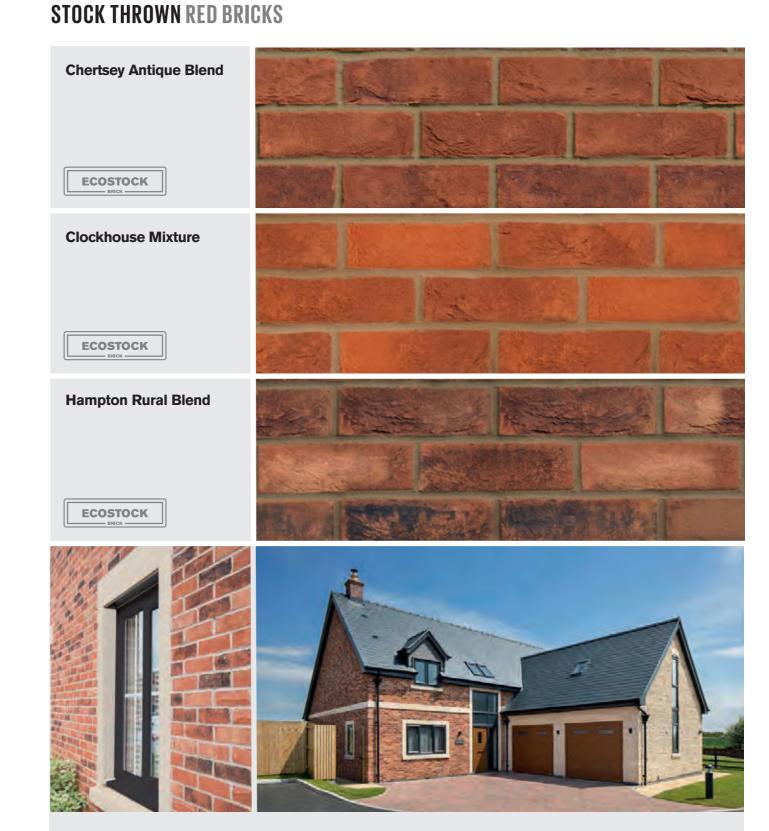
Architects: John Halton Design Limited Contractors: T. Balfe Constuction Ltd.

#### **STOCK THROWN RED BRICKS**



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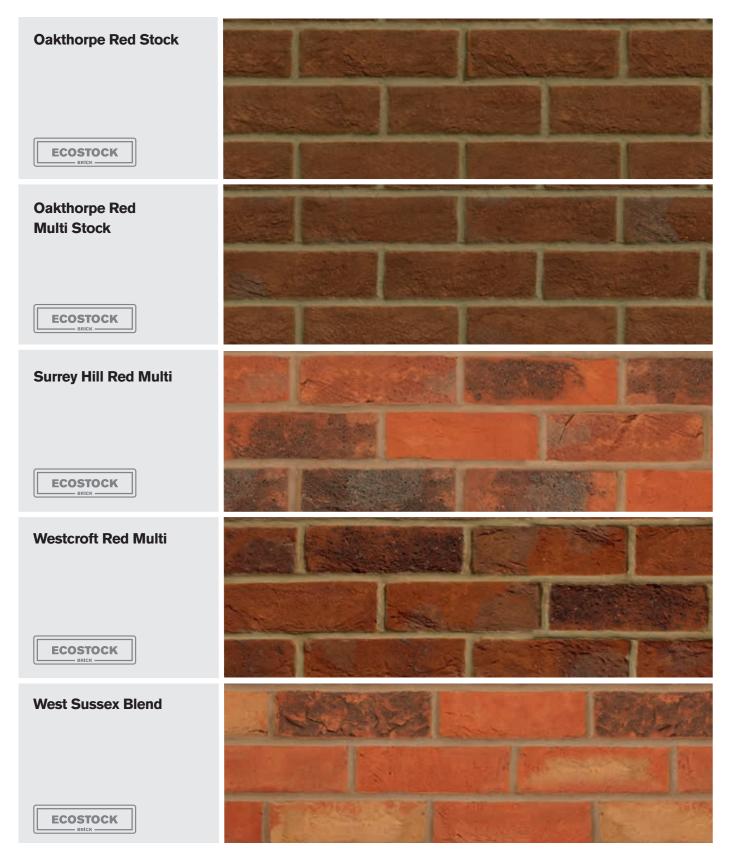
CASE STUDY MASONS PADDOCK Masons Paddock - a small development of residential homes situated in the Lincolnshire village of Coleby was shortlisted for the Brick Development Association (BDA) 2019 Brick Awards.

Each property possesses a unique external finish with differing combinations of brick and stone. Our Ecostock Hampton Rural Blend bricks were carefully selected to provide an elegant contrast to Clipsham stone, a local Lincolnshire limestone.

Architects: John Halton Design Limited Contractors: T. Balfe Constuction Ltd.

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#### **STOCK THROWN RED BRICKS**





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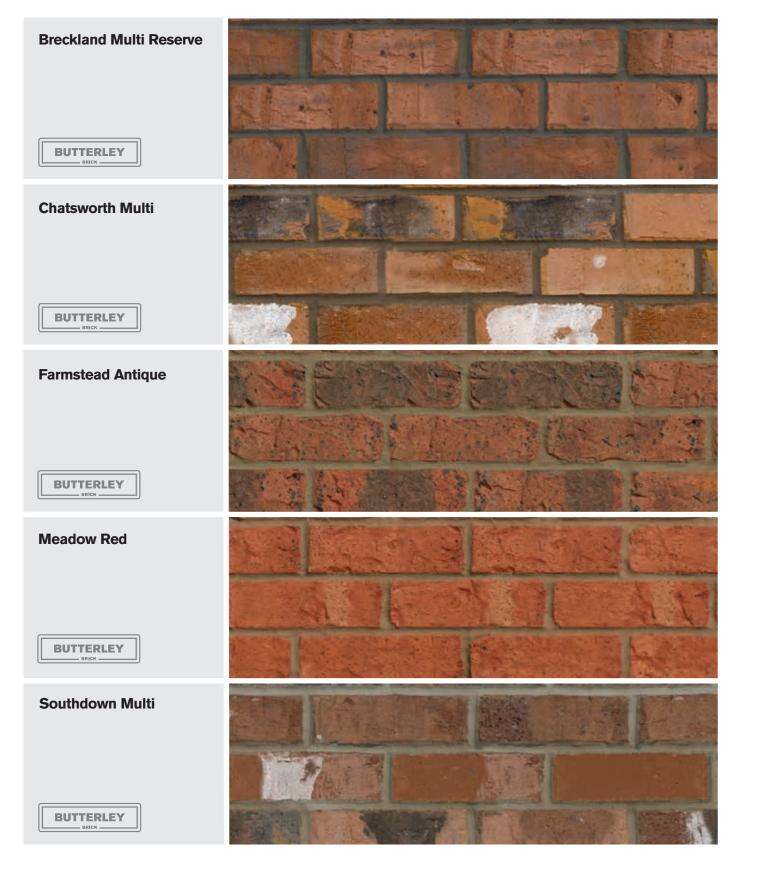


## **STOCK THROWN RED BRICKS**





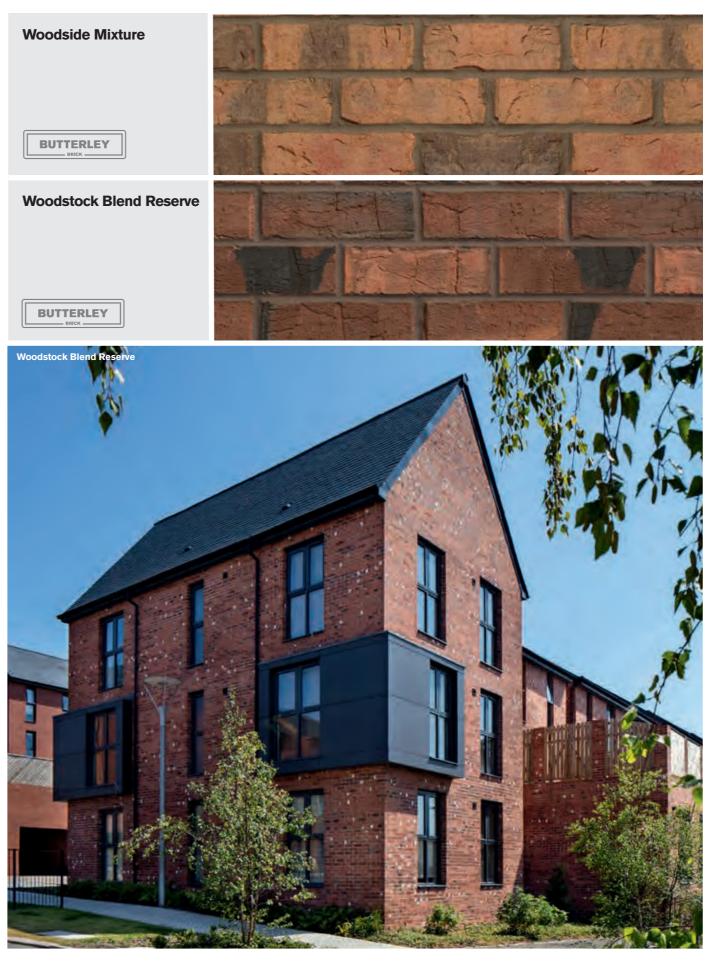
### **TUMBLED RED BRICKS**





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## **TUMBLED RED BRICKS**

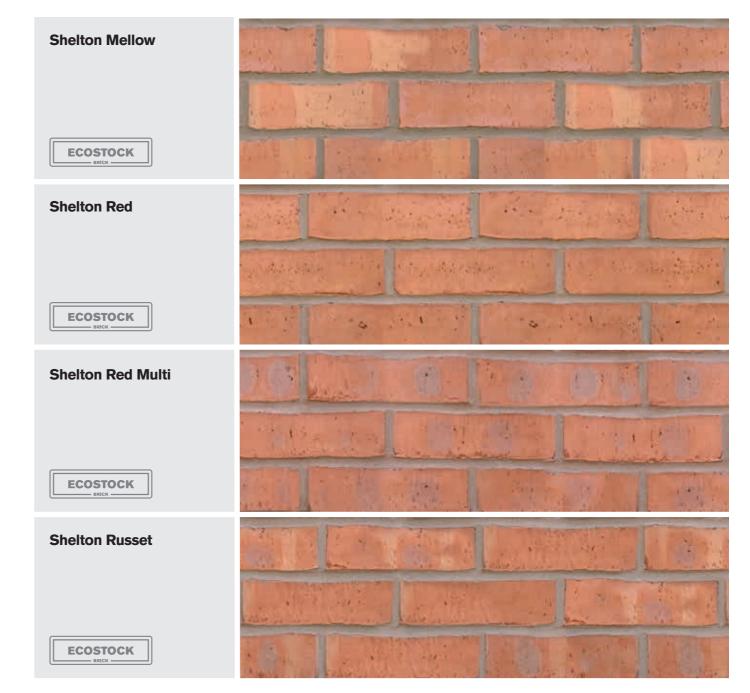


#### WATERSTRUCK RED BRICKS



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

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

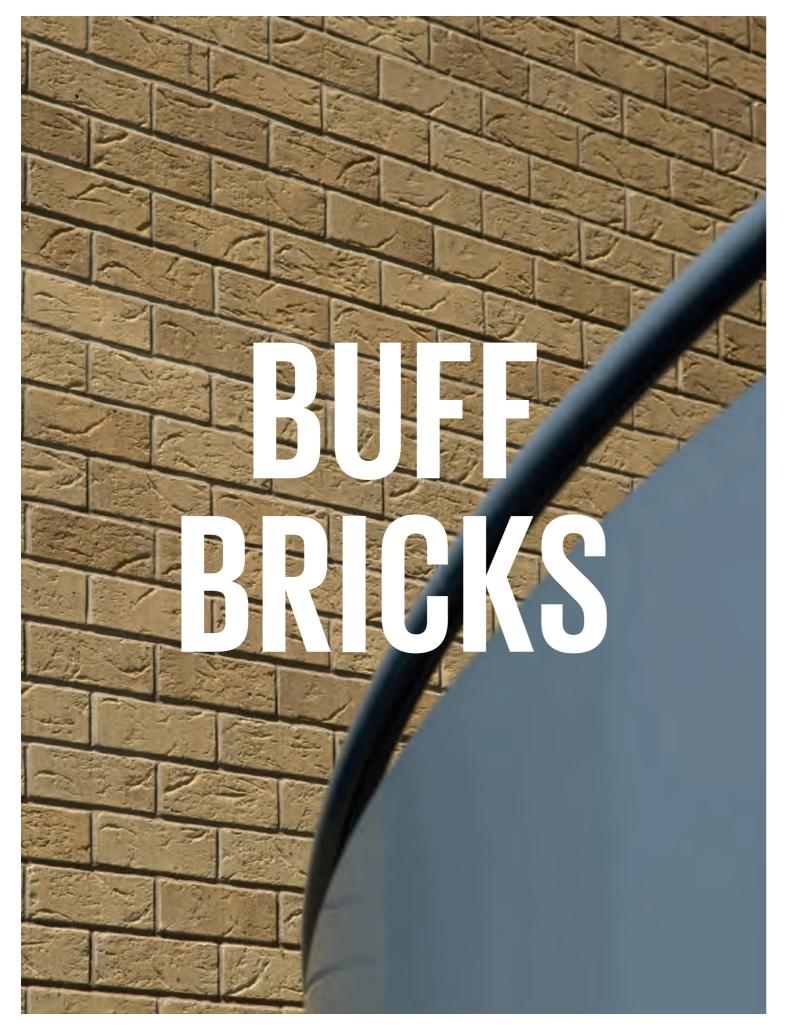


#### WHY WATERSTRUCK BRICKS ARE UNIQUE

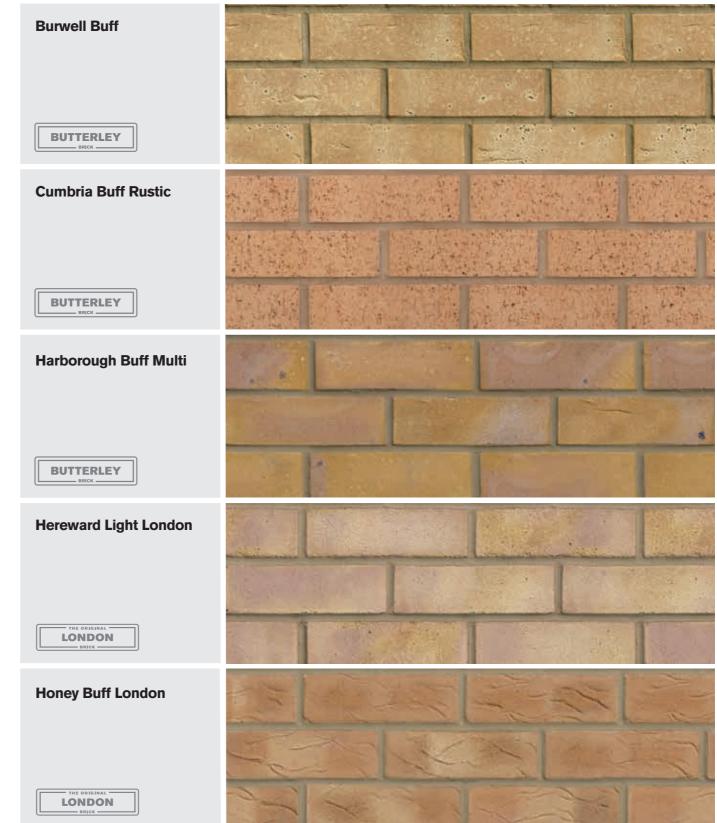
The relatively smooth, sand-free texture of waterstruck bricks is a result of using water rather than sand to release these soft mud bricks from their moulds. The process of water striking the brick creates a lightly textured surface unlike that of any other brick.

Part of the Ecostock range the new Shelton waterstruck brick combines the timeless beauty of traditional waterstruck brick with cutting edge production technology. The Shelton is available in four finishes.



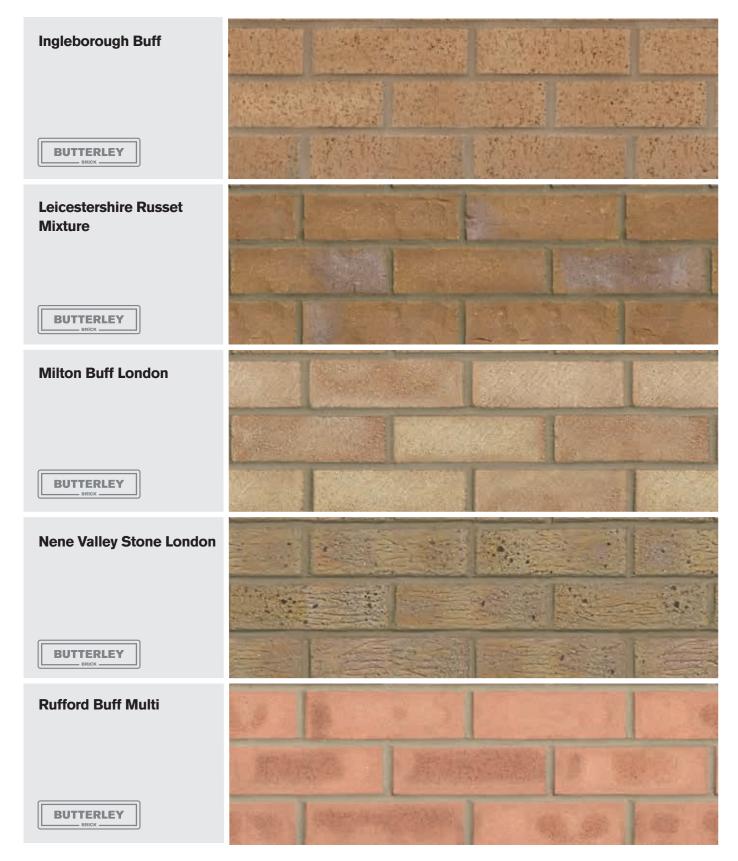


## LIGHT TEXTURED BUFF BRICKS





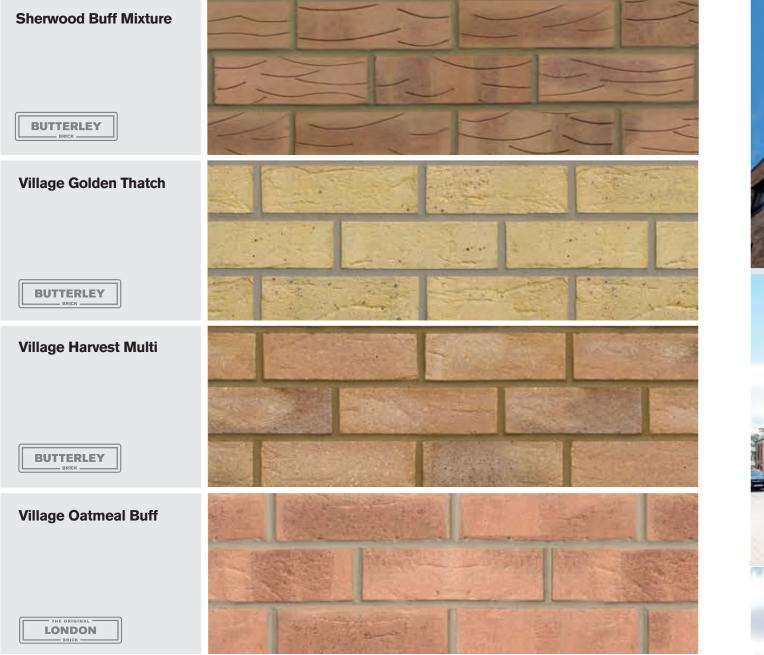
#### LIGHT TEXTURED BUFF BRICKS



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#### LIGHT TEXTURED BUFF BRICKS



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#### **LIGHT TEXTURED BUFF BRICKS**







# 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 BRICK SELECTED WAS VILLAGE HARVEST MULTI FOR IT WAS CONSISTENT WITH THE DESIGN AND REFERENCED DEVELOPMENTS NEARBY.

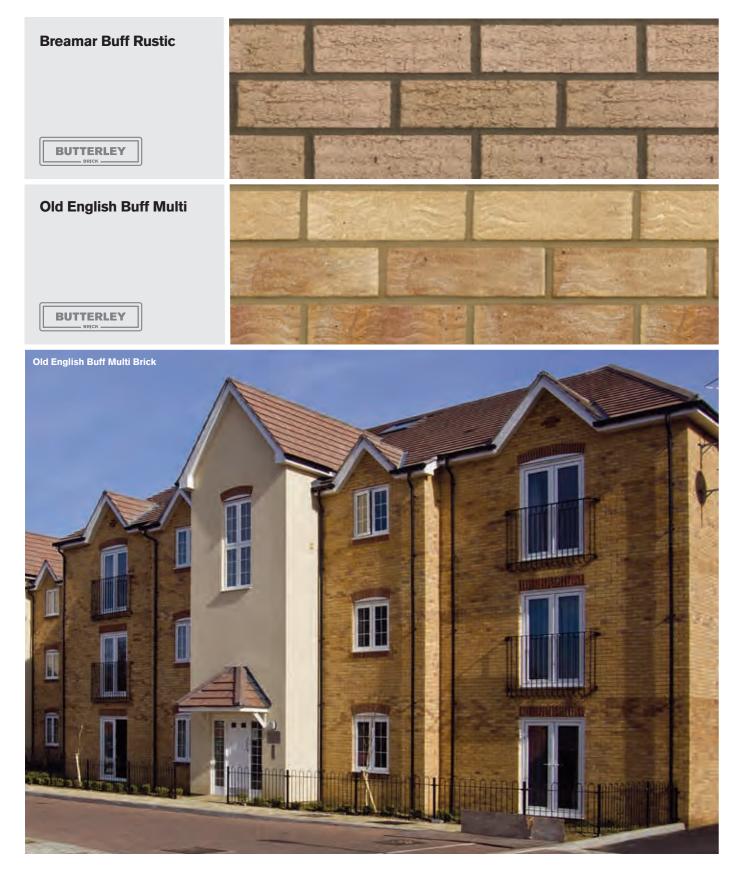
The architecture used throughout the development provides quality and variety.

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.

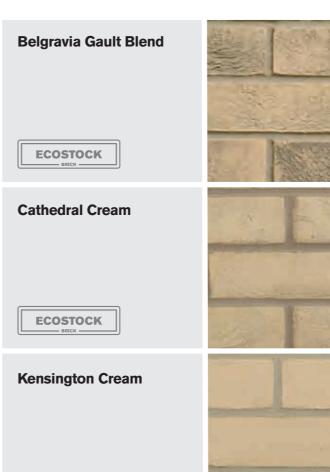
Architects: Barton Willmore

#### **HEAVY TEXTURED BUFF BRICKS**

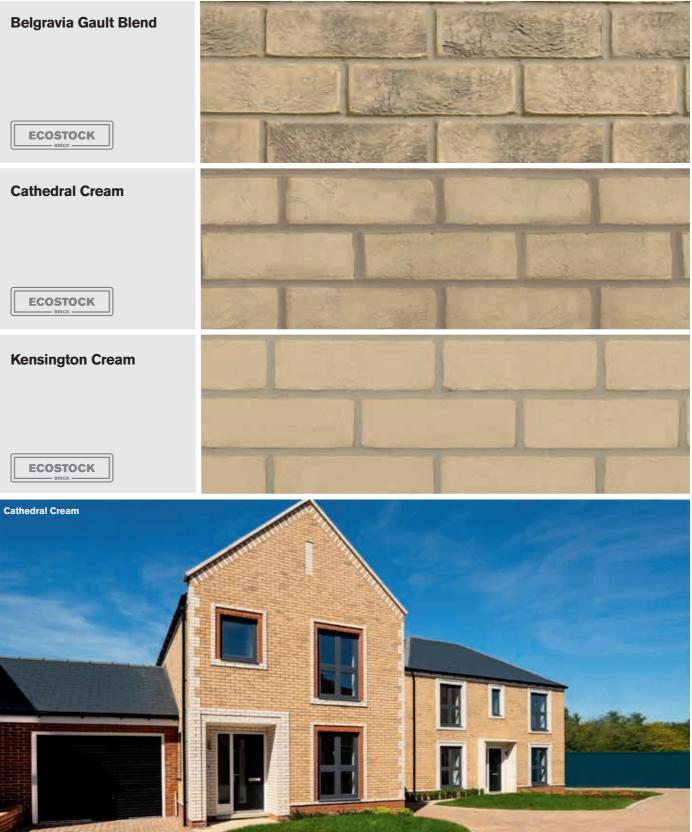




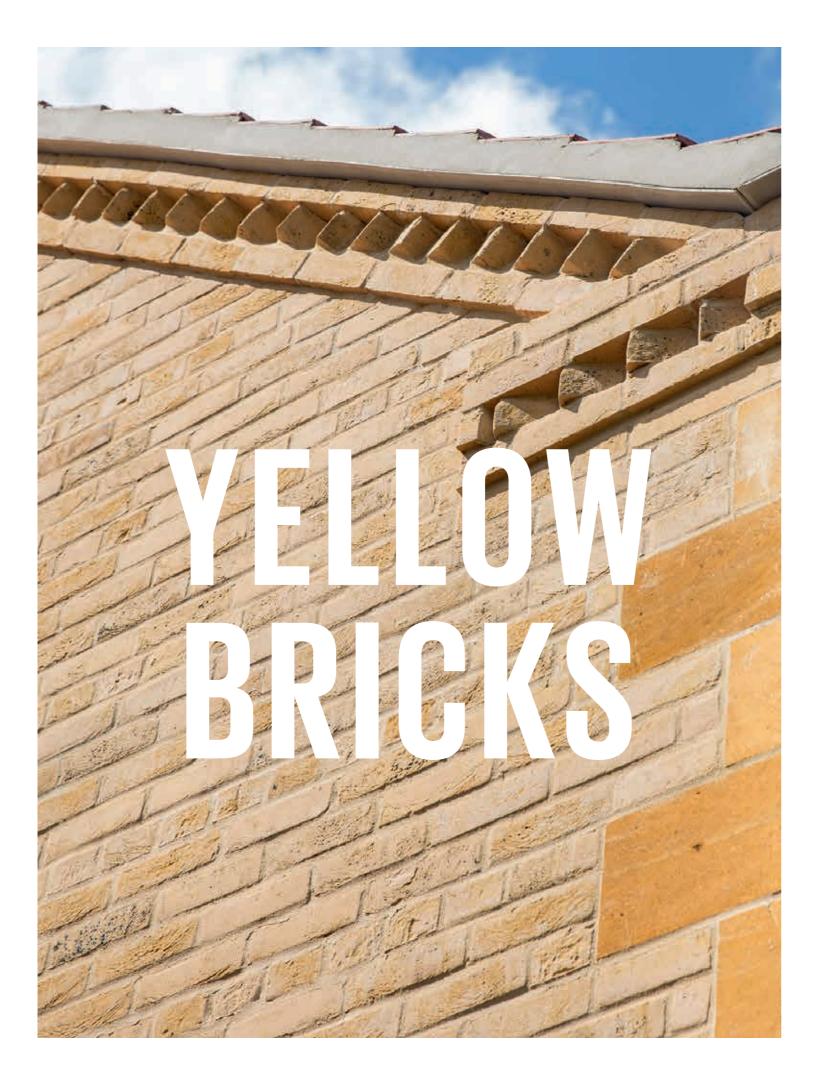
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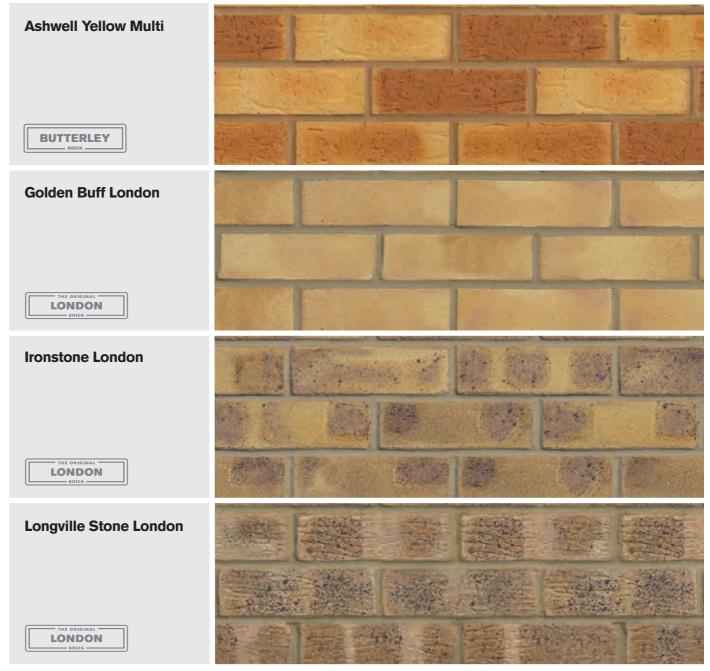
**STOCK THROWN BUFF BRICKS** 







#### **LIGHT TEXTURED YELLOW BRICKS**





#### **HEAVY TEXTURED YELLOW BRICKS**



#### **STOCK THROWN YELLOW BRICKS**



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# **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.

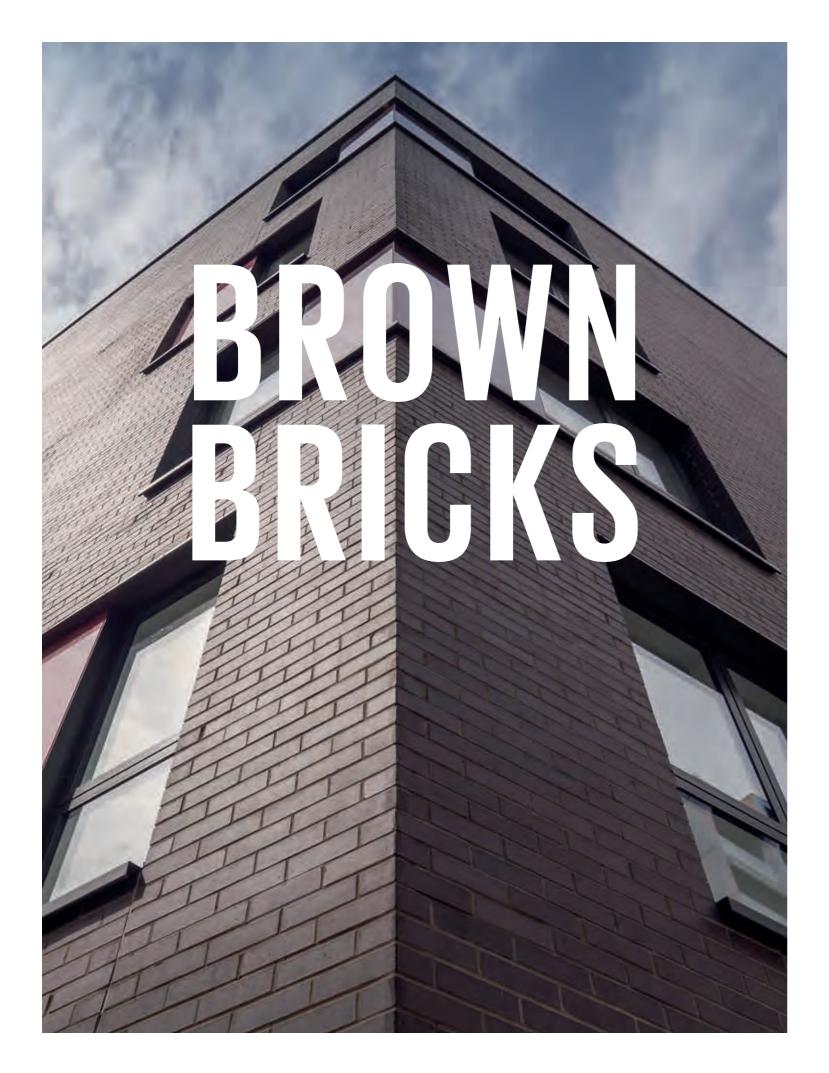
The brickwork was constructed in English Bond to achieve the desired aesthetic and reflect the existing surrounding outbuildings.



Complementary stone quoins, cills and heads together with dog-tooth oversailing courses to the eaves and verges were also used.

#### THE BRICK CHOSEN WAS ARDLEIGH YELLOW **STOCK BRICK FROM ECOSTOCK. IT IS A HIGH QUALITY FACING BRICK WITH RECYCLED CONTENT. THE RANGE CARRIES BES 6001 RESPONSIBLE SOURCING CERTIFICATION.**

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.



#### **SMOOTH TEXTURED BROWN BRICKS**



# **CASE STUDY** BRINKWORTH

Commissioned in north London in 2010, 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.



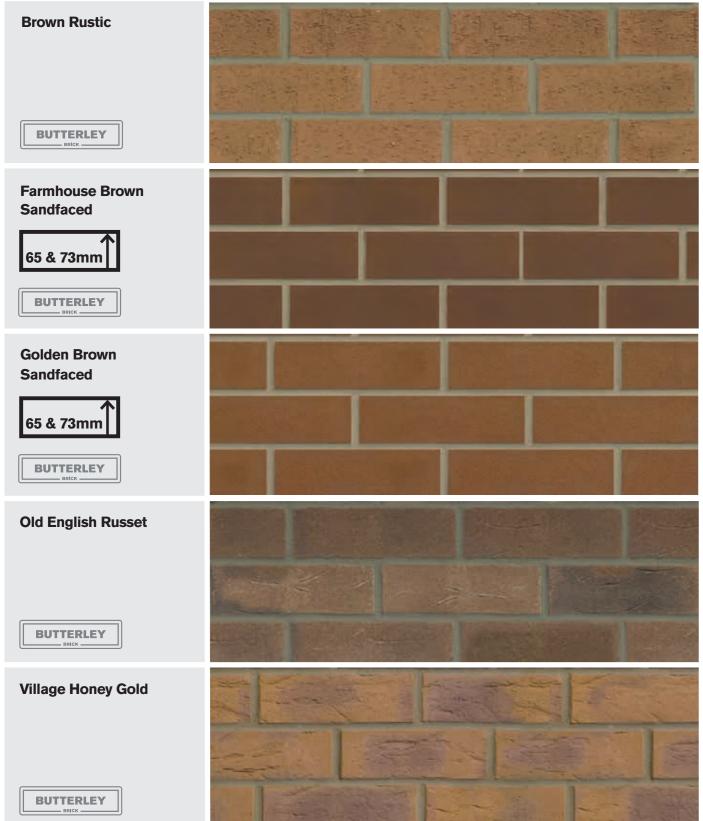


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The post-modernist build respects the immediate environment with regard to both material and form.

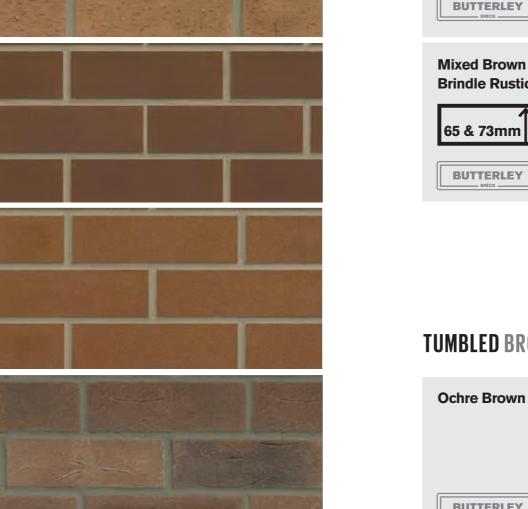
This build was shortlisted for a 2017 BDA Brick Award in the Individual Housing Development category.

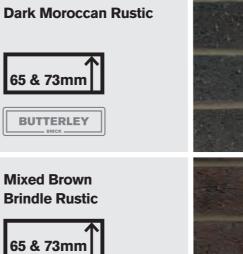
#### **LIGHT TEXTURED BROWN BRICKS**



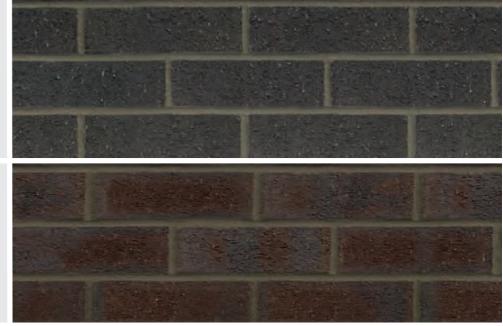


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**HEAVY TEXTURED BROWN BRICKS** 



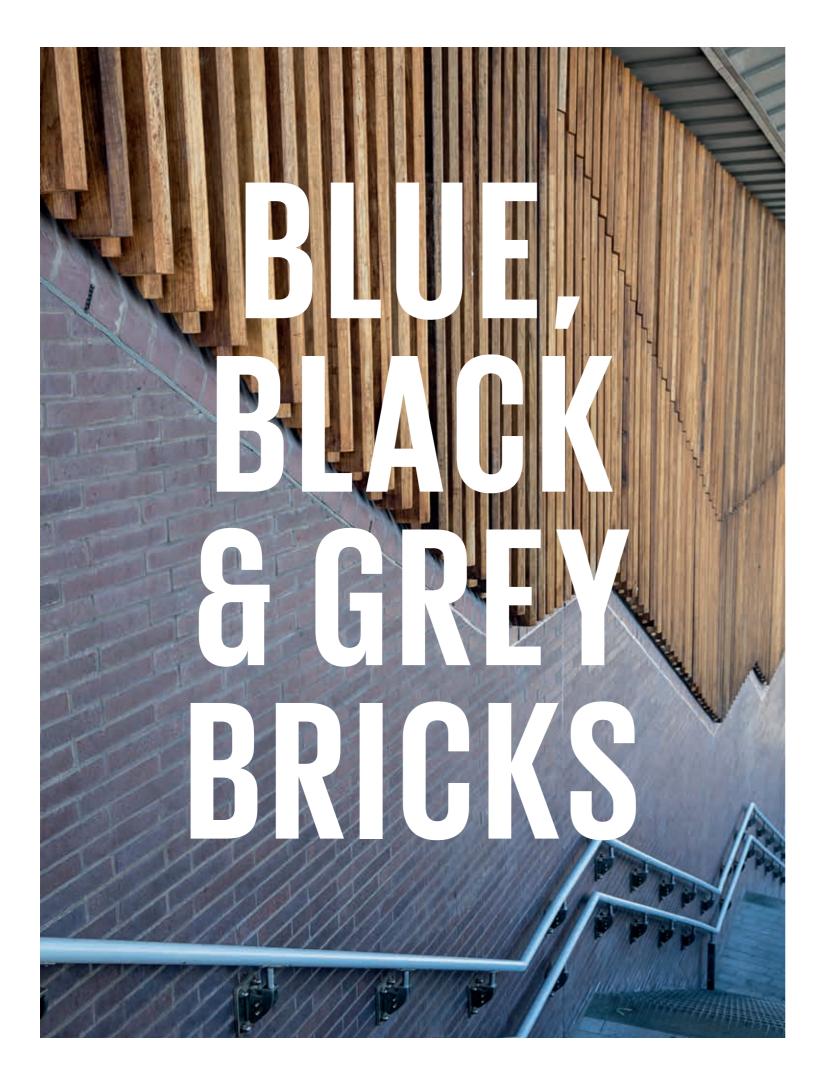
#### **TUMBLED BROWN BRICKS**



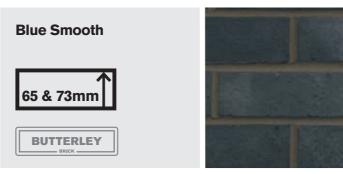


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## SMOOTH TEXTURED BLUE BRICKS



## **HEAVY TEXTURED BLUE BRICKS**



## **SMOOTH TEXTURED BLACK BRICKS**









#### **HEAVY TEXTURED BLACK BRICKS**

Carbon Black Rustic

#### BUTTERLEY BRICK

## LIGHT TEXTURED GREY BRICKS

Brecken Grey London	
	Chine Station The Marthan Marthan
Cotswold London	
Dapple Light London	
THE ORIGINAL LONDON BRICK	

#### **HEAVY TEXTURED GREY BRICKS**



#### **TUMBLED GREY BRICKS**





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ORDER YOUR BRICK SAMPLES

# CASE STUDY 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.

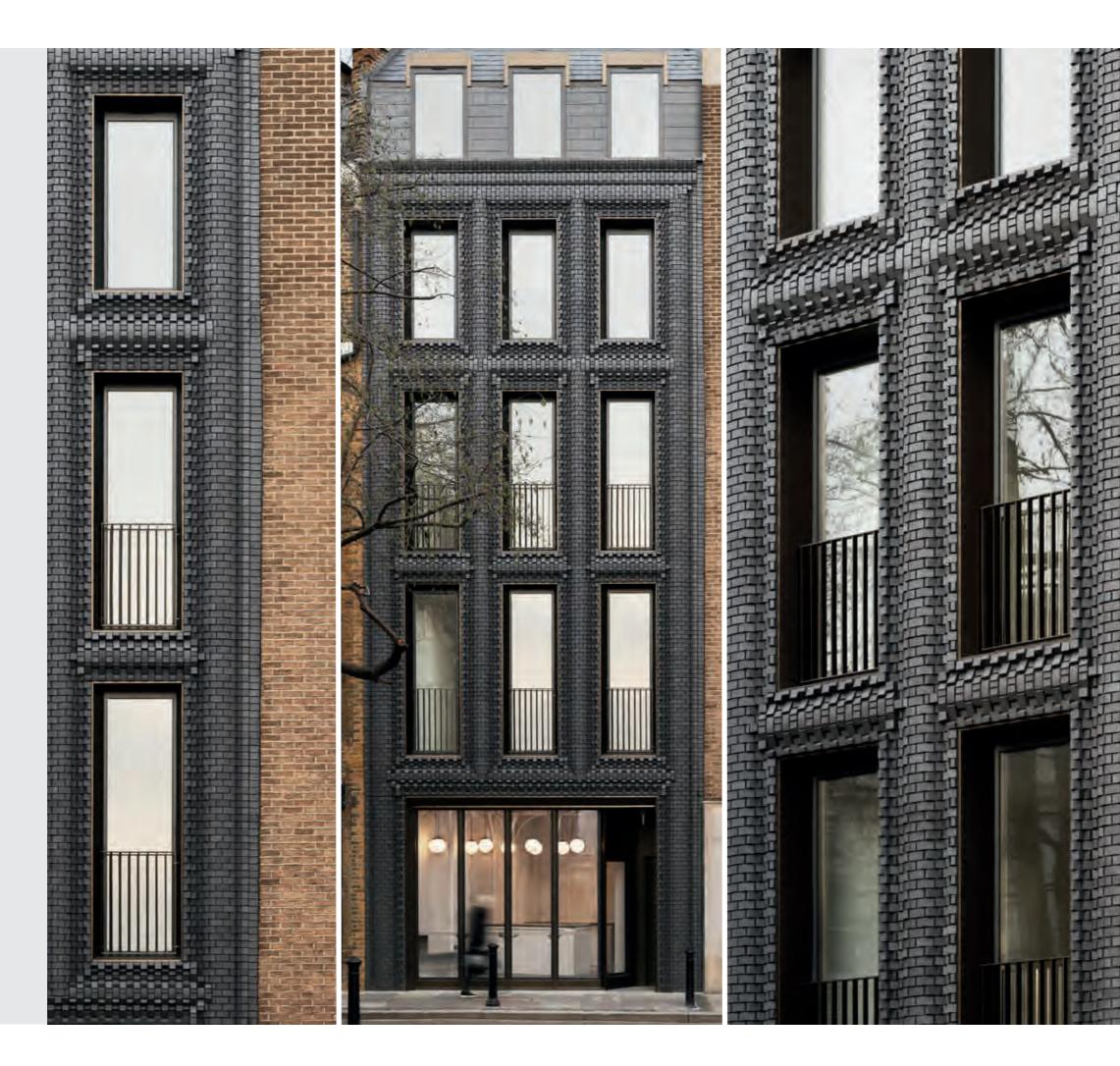
#### WE WORKED ITERATIVELY WITH THE TEAM AT FORTERRA – ADAPTING AND REVIEWING THE BRICKS IN 3D.

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."

Architects: Bureau de Change Architects

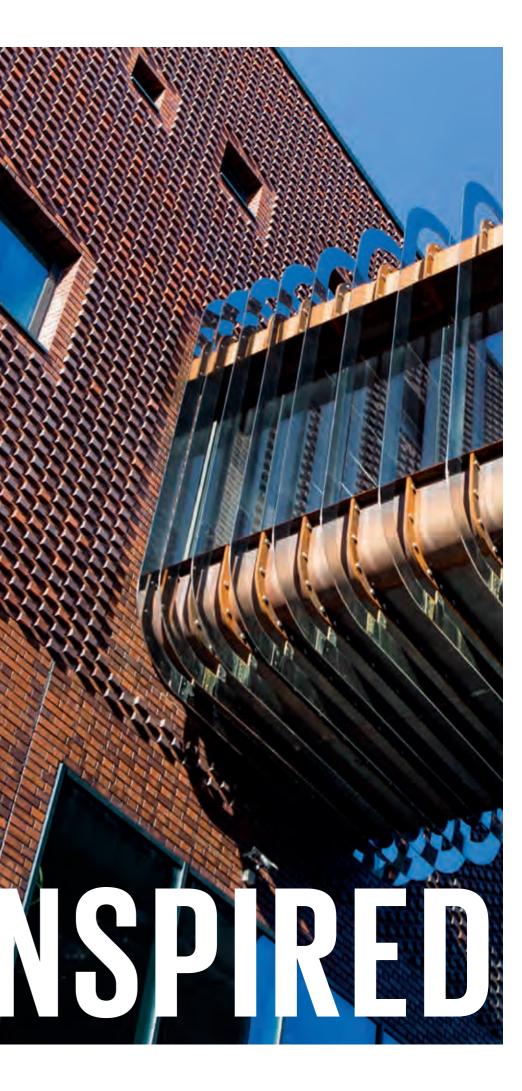




# BRICK INNOVATION

Clay brick might be one of the world's oldest building materials, but its flexibility and versatility combined with a wide palette of colours, textures, shapes and sizes, ensure it is also one of the most modern.

In the hands of architects and developers looking to create a unique aesthetic, brick has proven time and again to be an inimitably innovative product, delivering outstanding contemporary architecture or cleverly enabling new buildings to meld gently with their older neighbours.

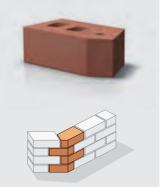


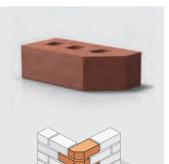
# CRADLEY **SPECIAL SHAPED BRICKS**

Cradley specialises in the manufacture of handmade British Standard and non-standard brick. A long-time favourite of architects, restoration specialists and house builders, Cradley Special Brick manufactures British Standard, non-standard and tailor-made bricks. They provide the detail that can transform the ordinary into the extraordinary and, occasionally, the award winning. And they can help you to turn your vision into reality, too. Cradley can produce non-standard and bespoke brick specials to almost any design, shape and size to create unique brickwork features and detailing.



## **BRITISH STANDARD SPECIAL SHAPED BRICKS**





**AN.5 SINGLE CANT** 

(left or right hand)

AN.1 SQUINT

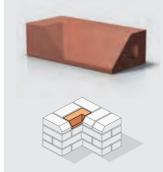
(left or right hand)



**BN.1 SINGLE BULLNOSE** (left or right hand)

**BN.2 DOUBLE BULLNOSE** 





**PL.3 PLINTH STRETCHER** (left or right hand)

PL.4 PLINTH INTERNAL RETURN - LONG (left or right hand)

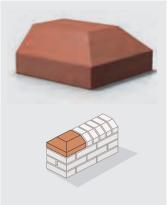
# HANDMADE **BESPOKE BRICK SPECIALS**

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, and whatever the shape or size.



**AN.6 DOUBLE CANT** 



AN.12 DOUBLE CANT STOP END (left or right hand)



**BN.5 SINGLE BULLNOSE HEADER ON FLAT** (left or right hand)



**BN.19 EXTERNAL RETURN TO DOUBLE BULLNOSE ON EDGE AND TO BULLNOSE DOUBLE HEADER ON FLAT** (left or right hand)



**PL.2 PLINTH HEADER** (left or right hand)



**PL.7 PLINTH EXTERNAL** (left or right hand)

# TALK TO OUR SPECIALISTS ON 01384 637184

# CASE STUDY TATE MODERN

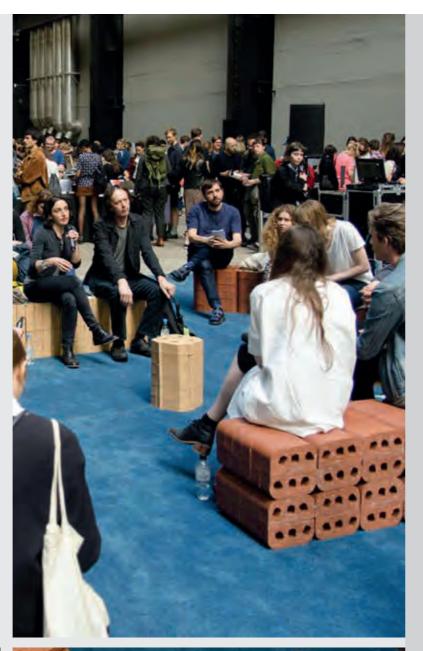
The designer of an exhibition at Tate Modern in London wanted to build a series of stools and benches out of bricks, but instead of using ordinary, rectangular bricks they wanted to use something more unusual.

The live, public exhibition, called Endless Book Club, would see reading enthusiasts from notable book clubs sit on the brick benches and stools while discussing their chosen books in the Turbine Hall of the famous art gallery.

#### FORTERRA'S CRADLEY SPECIAL BRICK PROVIDED OVER 500 SPECIAL Shaped Bricks to create more Than 20 Seats as part of The exhibition.

Cradley Special Brick has provided millions of non-standard bricks for refurbishments of listed buildings, luxury newbuilds and one-off projects including schools and leisure centres.

Book clubs from the Royal College of Art and the Institute of Psychoanalysis took part in the event, which was produced by Self Publish, Be Happy.



# HUIJANH



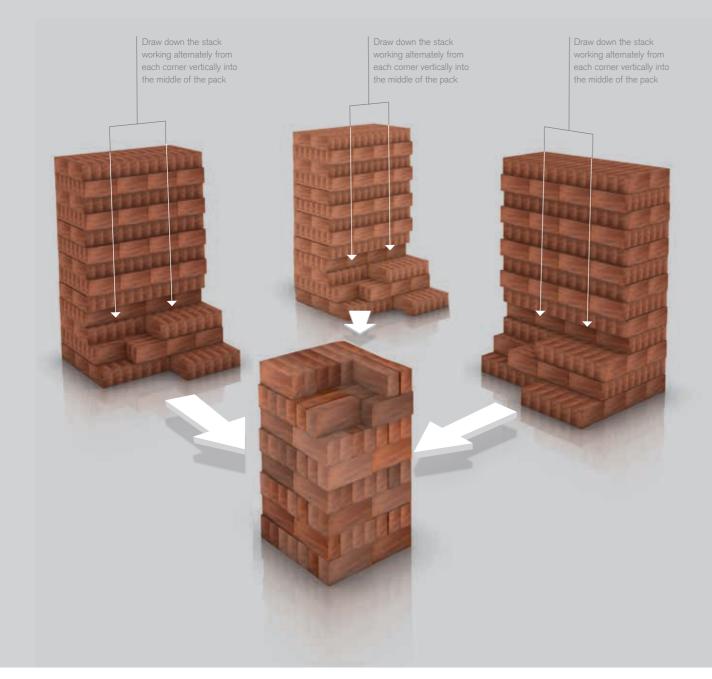


# **PROFESSIONAL TIPS** FOR BETTER BRICKWORK

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

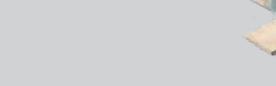
#### **BLENDING BRICKS**

Bricks should be loaded-out from a minimum of 3 packs and 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.



#### **BRICK STORAGE**

Bricks should be stored on a level, free-draining surface that is protected from the elements. Waterproof wrapping provides protection from the weather; if this is removed for inspection it needs to be replaced or alternative protection needs to be provided.



#### **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.



# **FROST PROTECTION**

## **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  $1 : \frac{1}{4} : 3$ ). his 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  $1 : \frac{1}{2} : \frac{4}{2}$ )

All copings must be of "F2/S2" quality and have a water absorption not exceeding 7% (M12 mortar or 1: 1/4: 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 45mm

"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 effloresence 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

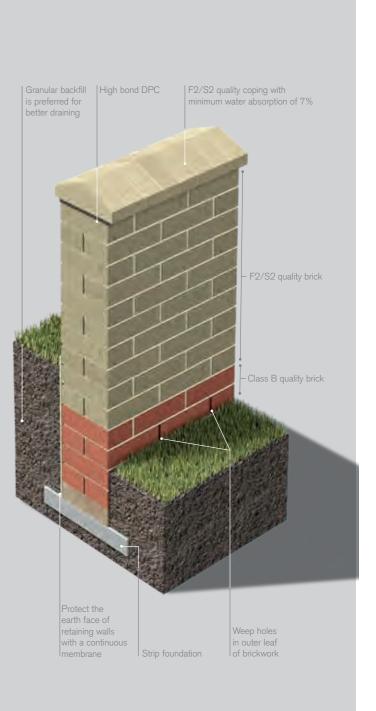
Rendering of the wall is not recommended under any circumstances

A cement rich M12 mortar (1 : <sup>1</sup>/<sub>4</sub> : 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.

## IT IS IMPORTANT TO FOLLOW THE ABOVE-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.



# **BRICK DESIGN CONSIDERATIONS**

#### A guide to help you get more from your bricks

#### **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.







**ENGLISH BOND** 

**STRETCHER BOND** 



FLEMISH BOND

**STACK BOND** 



**HEADER BOND** 



#### forterra.co.uk



**MORTAR COLOURS** 

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\*** 

The mortar is raked out brickwork exposed, picking out individual bricks and creating a shadow effect.

WEATHERED STRUCK WEATHERED STRUCK

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

AND CUT The inset edge of the joint should be around 2mm and the forward edge should project around 2mm

\* Recessed joints should not be used in areas exposed to high levels of wind driven rain. Recessed joints should not be raked out to more than 5mm. Recessed joints should never be used on "F1" quality bricks.



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.









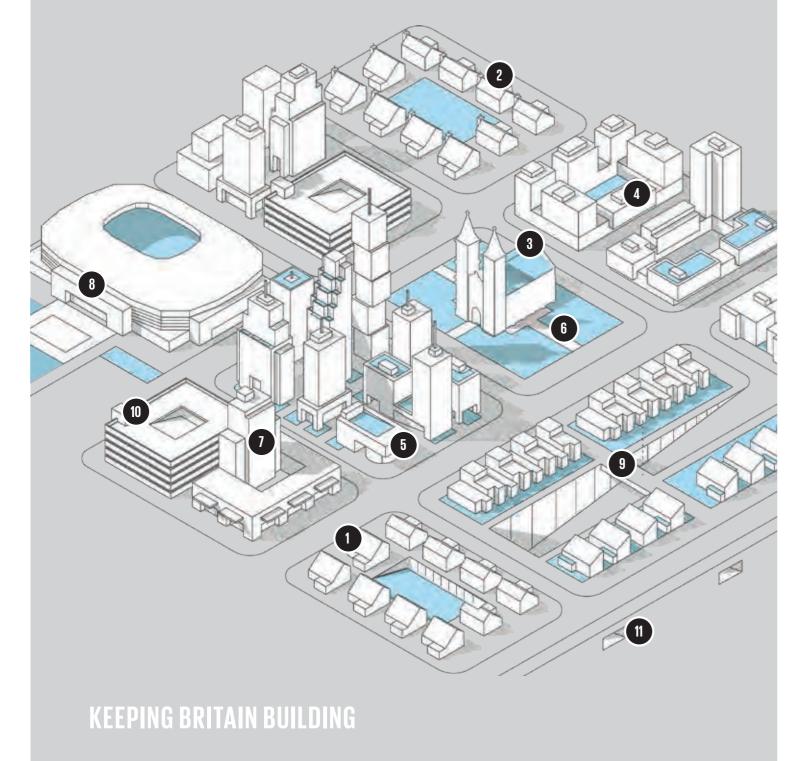
The mortar is 'tooled' to leave a concave, rounded joint.



FLUSH The edge is finished flush with the brickwork surface.

# THE COMPLETE FORTERRA RANGE

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



**BRICKS AND BLOCKS** LONDON BRICK ECOSTOCK BUTTERLEY THERMALITE CONBLOC

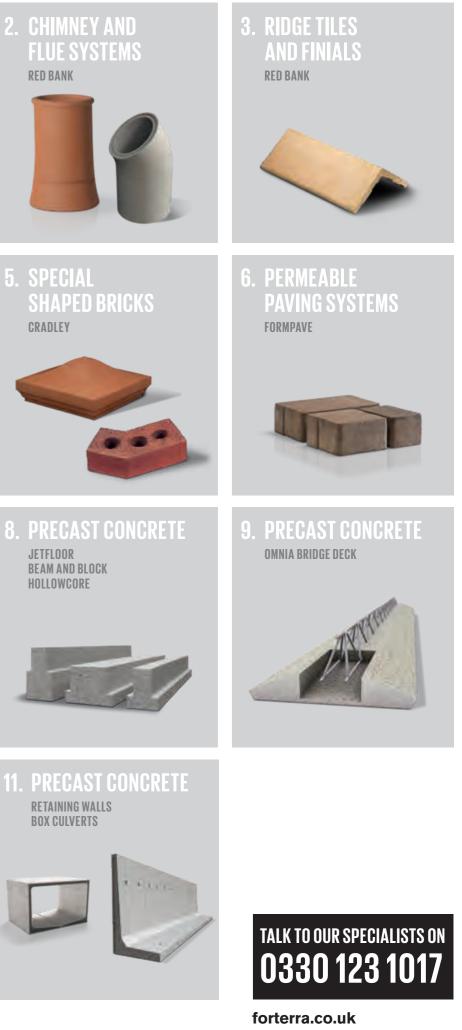


**AIR BRICKS AND CAVITY WALL BRIDGING DUCTS RED BANK** 



WALLING AND **CLADDING SYSTEMS** SUREBRICK WONDERWALL OUICKWALL





**10. PRECAST CONCRETE STAIRS AND LANDINGS** 



# 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.



# FORTERRA: THE SUSTAINABLE CHOICE

At Forterra our purpose is to keep Britain building. Our products help to create homes, communities and infrastructure which will last for generations. The continued achievement of this goal will only be possible through attaining the highest standards of stewardship of our natural resources, care for our planet, and the support of our employees and society.

Forterra was the first brick manufacturer to achieve BES 6001 Responsible Sourcing of Materials (RSM) certification for all products from its UK brick production sites. This means that any brick you choose from Forterra is BES 6001 certified.

We also offer the Ecostock brick range. This range is manufactured at our flagship factory in Measham, and combines locally sourced raw materials with low energy and low waste processes, to make stock bricks with the lowest embodied CO<sub>2</sub>.

#### IT IS NOW OVER TEN YEARS SINCE THE BRICK FACILITY IN LEICESTERSHIRE WAS COMMISSIONED AND NOW, MEASHAM PRODUCES MORE THAN 100M BRICKS A YEAR.

The humble clay brick has stood the test of time due to its versatility, reliability and robustness as a cladding material built to last. But we also recognise our markets are evolving and seeking increased offsite solutions via modern methods of construction, focused on low wastage and efficient speed of build. We continue to develop new offsite walling solutions, which include our SureBrick façade system, integrated brick faced concrete panels, and Quickwall, providing alternative solutions to traditional construction.

#### **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.

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Vertically Perforated 18-28% (voids Red         P         SF         King         Frogged 13-18% (voids           Buff         P         SF         King         Frogged 15-20% (voids         Buff         P         SF         King         Frogged 15-20% (voids         Buff         W         DF         Clau         Vertically Perforated 13-28% (voids           Buff         W         DF         Clau         Vertically Perforated 13-28% (voids         Red         W         TF         Kint         Vertically Perforated 13-28% (voids         Red         W         DF         Clau         Vertically Perforated 13-28% (voids         Red         TH         C         Mea         Frogged 5-18% (voids         Red         TH         C         Mea         Frogged 5-18% (voids         Red         N         RU	T2       R1       195       F1       S2       23       25       390         T1       R1       2.3       F1       S2       23       25       390         T2       R1       195       F1       S2       23       25       390         T2       R1       195       F1       S2       23       25       390         T2       R1       195       F1       S2       23       25       390         T2       R1       235       F2       S2       10       40       520         T2       R1       205       F2       S2       15       30       495         T2       R1       205       F2       S2       16       30       495         T2       R1       205       F2       S2       16       30       495         T2       R1       205       F2       S2       7       75       504         T2       R1       225       F2       S2       7       75       504         T2       R1       25       F2       S2       7       75       504         T2       R1       245

Braemar Red Rustic	P20	215 x 102.5 x 65	Red	W	RU	Clau	Vertically Perforated 18-28% Voids	12	R1	2.35	F2	S2	10	40	520
Brecken Grey (London Brick)	P54	215 x 102.5 x 65	Grey	Ρ	IT	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
Breckland Multi Reserve	P32	215 x 102.5 x 65	Red	W	Т	How	Vertically Perforated 24-29% Voids	T2	R1	2.4	F2	S2	7	75	452
Brindle (London Brick)	P55	215 x 102.5 x 65	Black	Р	IT	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	396
Brown Rustic	P50	215 x 102.5 x 65	Brown	W	RU	Kirt	Vertically Perforated 11-16% Voids	T2	R1	2.15	F1	S2	19	20	495
Burghley Red Rustic	P20	215 x 102.5 x 65	Red	W	RU	Kirt	Vertically Perforated 11-21% Voids	T2	R1	2.15	F1	S2	17	25	495
Burwell Buff	P37	215 x 102.5 x 65	Buff	W	IT	Des	Vertically Perforated 18-25% Voids	T2	R1	1.9	F2	S2	20	30	500
Carbon Black Smooth	P53	215 x 102.5 x 65	Black	W	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Carbon Black Smooth 73mm	P53	215 x 102.5 x 73	Black	W	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Carbon Black Rustic	P54	215 x 102.5 x 65	Black	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.5	F2	S2	7	75	504
Carbon Black Rustic 73mm	P54	215 x 102.5 x 03	Black	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.5	F2	S2	7	75	504
Cathedral Cream	P43	215 x 102.5 x 65	Buff	TH	C	Mea	Frogged 2-12% Voids	T2	R1	2.36	F2	S2	13	30	495
Caton Russet Mixture	P8	215 x 102.5 x 65	Red	W	DF	Clau	Vertically Perforated 18-28% Voids	T2	R1	2.30	F2	S2	10	40	490 520
					RU		2	T2			F2 F1	32 S2	26		495
Chatsworth Grey Rustic	P55	215 x 102.5 x 65	Grey	W		Kirt	Vertically Perforated 11-16% Voids		R1	1.95				20	
Chatsworth Multi	P32	215 x 102.5 x 65	Red	W	RB	How	Vertically Perforated 24-29% Voids	T2	R1	2.4	F2	S2	7	75	452
Chelsea Smoked Red	P28	215 x 102.5 x 65	Red	TH	С	Mea	Frogged 5-18% Voids	T2	R1	2.2	F2	S2	13	25	495
Chertsey Antique Blend	P29	215 x 102.5 x 65	Red	TH	С	Mea	Frogged 5-18% Voids	T2	R1	2.2	F2	S2	13	25	495
Cheshire Red Multi	P8	215 x 102.5 x 65	Red	W	IT	Des	Vertically Perforated 18-25% Voids	T2	R1	2	F2	S2	14	40	500
Chidwell Multi	P10	215 x 102.5 x 65	Red	W	IT	How	Vertically Perforated 24-29% Voids	T2	R1	2.4	F2	S2	7	75	452
Chiltern (London Brick)	P10	215 x 102.5 x 65	Red	Р	IT	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
Claydon Red Multi (London Brick)	P10	215 x 102.5 x 65	Red	Р	IT	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
Clockhouse Mixture	P29	215 x 102.5 x 65	Red	TH	С	Mea	Frogged 5-18% Voids	T2	R1	2.2	F2	S2	13	25	495
Clumber Red	P10	215 x 102.5 x 65	Red	W	SS	Kirt	Vertically Perforated 13-25% Voids	T2	R1	2.05	F2	S2	17	30	495
Clumber Red Mixture	P10	215 x 102.5 x 65	Red	W	SS	Kirt	Vertically Perforated 13-25% Voids	T2	R1	2.05	F2	S2	17	30	495
Cotswold (London Brick)	P54	215 x 102.5 x 65	Grey	Ρ	IT	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
County Multi Dragfaced	P11	215 x 102.5 x 65	Red	W	DF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
County Multi Dragfaced 73mm	P11	215 x 102.5 x 73	Red	W	DF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
County Multi Rustic	P20	215 x 102.5 x 65	Red	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.5	F2	S2	7	75	504
County Multi Rustic 73mm	P20	215 x 102.5 x 73	Red	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.8	F2	S2	7	75	464
County Multi Smooth	P7	215 x 102.5 x 65	Red	W	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
County Multi Smooth 73mm	P7	215 x 102.5 x 73	Red	W	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
County Red Dragfaced	P11	215 x 102.5 x 65	Red	W	DF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
County Red Dragfaced 73mm	P11	215 x 102.5 x 73	Red	W	DF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
County Red Rustic	P20	215 x 102.5 x 65	Red	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.5	F2	S2	7	75	504
County Red Rustic 73mm	P20	215 x 102.5 x 73	Red	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.8	F2	S2	7	75	464
County Red Smooth	P7	215 x 102.5 x 65	Red	Ŵ	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
County Red Smooth 73mm	P7	215 x 102.5 x 73	Red	Ŵ	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
Cumbria Buff Rustic	P37	215 x 102.5 x 65	Buff	Ŵ	DF	Clau	Vertically Perforated 18-28% Voids	T2	R1	2.35	F2	S2	10	40	520
Dapple Light (London Brick)	P54	215 x 102.5 x 65		P	SF	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
	P51	215 x 102.5 x 65	Grey Brown	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.5	F2	S2	7	75	504
Dark Moroccan Rustic	P51			W	RU	Wiln	2	T2	R1	2.5	F2 F2	32 S2	7	75	384
Dark Moroccan Rustic 73mm	P31 P49	215 x 102.5 x 73	Brown			Wiln	Vertically Perforated 20-25% Voids	T2	R1		F2 F2	52 S2		75	384 504
Dark Moroccan Smooth		215 x 102.5 x 65	Brown	W	SM		Vertically Perforated 23-28% Voids			2.5			7		
Dark Moroccan Smooth 73mm	P49	215 x 102.5 x 73	Brown	W	SM	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.8	F2	S2	7	75	384
Dark Multi Rustic	P21	215 x 102.5 x 65	Red	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2 TO	R1	2.5	F2	S2	7	75	504
Dark Multi Rustic 73mm	P21	215 x 102.5 x 73	Red	W	RU	Wiln	Vertically Perforated 20-25% Voids	T2	R1	2.8	F2	S2	7	75	464
Dark Multi Smooth	P7	215 x 102.5 x 65	Red	W	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Dark Multi Smooth 73mm	P7	215 x 102.5 x 73	Red	W	SM	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
Dark Tame Valley	P11	215 x 102.5 x 65	Red	W	DF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Dark Tame Valley 73mm	P11	215 x 102.5 x 73	Red	W	DF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
Edwardian Dragfaced	P11	215 x 102.5 x 65	Red	W	IT	Kirt	Vertically Perforated 13-25% Voids	T2	R1	2.05	F2	S2	14	35	495
Farmhouse Brown Sandfaced	P50	215 x 102.5 x 65	Brown	W	SF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Farmhouse Brown Sandfaced 73mm	P50	215 x 102.5 x 73	Brown	W	SF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
Farmstead Antique	P32	215 x 102.5 x 65	Red	W	PT	Acc	Vertically Perforated 18-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Fulwood Multi	P11	215 x 102.5 x 65	Red	W	PT	Acc	Vertically Perforated 18-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Georgian (London Brick)	P12	215 x 102.5 x 65	Red	Р	SF	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
Golden Brown Sandfaced	P50	215 x 102.5 x 65	Brown	W	SF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Golden Brown Sandfaced 73mm	P50	215 x 102.5 x 73	Brown	W	SF	Wiln	Vertically Perforated 23-28% Voids	T2	R1	2.8	F2	S2	7	75	464
Golden Buff (London Brick)	P45	215 x 102.5 x 65	Yellow	Р	SF	King	Frogged 15-20% Voids	T2	R1	1.95	F1	S2	23	25	390
Granite Ash	P55	215 x 102.5 x 65	Grey	W	PT	Acc	Vertically Perforated 18-28% Voids	T2	R1	2.5	F2	S2	7	75	504
Hampton Rural Blend	P29	215 x 102.5 x 65	Red	TH	С	Mea	Frogged 5-18% Voids	T2	R1	2.2	F2	S2	13	25	495
Harborough Buff Multi	P37	215 x 102.5 x 65	Buff	W	IT	Des	Vertically Perforated 18-25% Voids	T2	R1	1.9	F2	S2	20	30	500
							,	_							

RB = Rolled Back DF = Dragfaced IT = Indented Texture

How = Howley Park Des = Desford Kirt = Kirton Mea = Measham Wiln = Wilnecote King = Kings Dyke Clau = Claughton Acc = Accrington

F1 - suitable for moderate exposure.

F2 - suitable for severe exposure.

S2 - low active soluble salt content.

Key to index	
Yorkshire Red Blend	P18

Rey to much				
Manufacture:	W = Wirecut	P = Pressed	TH = Thrown	WS = Wa
Texture:	C = Creased PT = Printed Texture	SM = Smooth SS = Smooth Sanded	RB = Rolled Back SF = Sandfaced	DF = Dra RU = Rus
Factory:	How = Howley Park	Des = Desford	Kirt = Kirton	Mea = M

T1 (+/- 6mm) the mean of 10 bricks falls between 209mm up to 221mm. T2 (+/- 4mm) the mean of 10 bricks falls between 211mm up to 219mm.

R1 - the difference between the smallest and the largest in the batch of 10 is no more than 9mm.

P = Pressed

SM = Smooth

TH = Thrown

SS = Smooth Sanded SF = Sandfaced RU = Rusticated T = Tumbled

Manufacture: W = Wirecut

C = Creased

PT = Printed Texture

Key to index

Texture:

Factory:

T1 (+/- 6mm) the mean of 10 bricks falls between 209mm up to 221mm. T2 (+/- 4mm) the mean of 10 bricks falls between 211mm up to 219mm.

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gionaltoler	ance mean and toleration of the second secon	Int per bri	o rating	Nater 2	psorphior	Packsile	
Diment Dimen	Dryme	Durabi	ACTINO	Nater	Count.	Packs.	

Waterstruck

ragfaced IT = Indented Texture

lusticated

T = Tumbled

Measham Wiln = Wilnecote King = Kings Dyke Clau = Claughton Acc = Accrington

F1 - suitable for moderate exposure.

F2 - suitable for severe exposure. S2 - low active soluble salt content.

# FORTERRA'S BESPOKE Blend Service

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

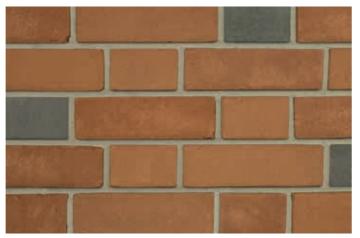
Blending brick colours and textures is an effective method of achieving a bespoke aesthetic that satisfies architects and planners. Bricks can be blended to produce an even distribution of colour or texture across the whole facing brick façade, or to create intricate brick patterns typical of the Victorian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











FOR FURTHER DETAILS CALL 0330 123 1017



