BRICK CLADDING SYSTEMS

GREAT VALUE, GREAT QUALITY, GREAT SERVICE.

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Important information about CE MARKING
From 1st July 2013 it is mandatory for any construction product, covered by a harmonised European Standard (hEN) containing a ‘ZA’ annexe, to carry a Declaration of Performance (DoP) and a CE mark.

Standard format clay brick and pavers have been covered by hENs since 2003 and Ibstock bricks have been CE marking since then. Although bespoke and ‘one off’ special products will not fall under the scope of the hEN and require CE marking, Special Shaped bricks generally will and must carry the CE marking.

Further information and Declarations of Performance can be found at: www.ibstock-ce.com

For fast and easy access to the comprehensive range of Ibstock products and services visit www.ibstock.com

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IBSTOCK IS A CRH COMPANY
To find out more scan this using your smartphone.
Ibstock Brick, the UK’s largest brick manufacturer, hosted a visit from Housing Minister Kris Hopkins MP at its redeveloped Chesterton factory in Newcastle-under Lyme, Staffordshire.

Colin Richardson, Director of Manufacturing Development at Ibstock Brick, welcomed the Housing Minister to our site. We’re really proud to welcome the Housing Minister to our site. We’re really proud to welcome the Housing Minister to our site. We’re really proud...  

Following the release of figures from the Department for Communities and Local Government showing that the last three months have seen the fastest rate of housebuilding since 2006, the Minister was given a tour of the redevelopment project, which has benefitted from more than £20m of investment. This has enabled it to respond well to the current rise in brick demand.

The redeveloped Chesterton site ensures it benefits from the latest in production technology for high-quality and sustainable production. It has secured 80 factory-related jobs and guarantees the latest manufacturing technology for high quality and sustainable future.

It is the most energy efficient and environmentally friendly factory of its type in the world today and has capacity to produce 80 million bricks per year, so we’re well placed to respond to the return to growth of the construction industry.”

Colin Richardson, Director of Manufacturing Development at Ibstock Brick, commented: “It was a privilege to host our Housing Minister Kris Hopkins MP and to showcase what has been achieved with our investment in Ibstock’s factory of its type in the world today and has the capacity to produce 80 million bricks per year, so we’re well placed to respond to the return to growth of the construction industry.”

Ibstock Brick has become the first construction product to be awarded an Environmental Product Declaration (EPD) under the BRE’s recently launched EN 15804 scheme.

Based on an internationally agreed system for calculating and reporting the environmental impacts of construction products, the EPD was carried out for the Brick Development Association on a generic brick.

FastWall™, Ibstock Kerling’s range of prefabricated chimneys, have now added prestigious BBA approval to their recent CGMA accreditation, making them the smart choice for a range of chimney applications.

The GRP (Reinforced Plastics) chimneys come with Ibstock brick slips and delivered to the trade for immediate installation. They are simply rejoined into position with 2-part epoxy adhesive then pointed to match the existing brickwork.

Available at full working height, suitable for fitting Class 1 & 2 appliances, GRP chimneys resist the corrosion of chimney flue and many on-site and provide a totally authentic alternative to traditional chimney construction – now fully approved and accredited performance for total peace of mind.

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Ibstock Brick has a new website www.ibstock-CE.com which has origins dating back to 7000BC.
After years of rigorous testing into key areas such as thermal performance, strength and durability, BrickShield® has become the first system of its type to receive accreditation from the BBA.

Agrément Certificate 13/4997

Brick has been the traditional cladding material for UK buildings for generations, providing the range of rich hues and textures that have helped to create landscapes for the future.

In today’s fast moving world however time and cost sometimes preclude the traditional approach. With BrickShield cladding systems, it is possible to achieve authentic brick finishes, with similar durability, colour range and visual effects, quickly and efficiently.

Ideal for both new built applications and for upgrading the performance and appearance of old and semi-derelict facades, BrickShield® combines high performance Rockwool thermal insulation with a traditional brick finish in a single system.

Insulation boards are simply bonded and mechanically fixed to the exterior face of the wall in a manner identical to BrickBond®. The Brick Shield® slip is then bonded with BrickShield® Adhesive. Once set, the slip is painted with Brickshield® Paints.

The process is simple, rapid and requires minimal disruption for residents, who can remain in their homes throughout the work. Full certification testing and support is available throughout the process and site surveys, recommended by BBA, enable residents to see an example slip on display in the perfect setting, similar to their home.

With BrickShield® there is also the option to select virtually any brick colour or texture from Ibstock’s extensive range, for unlimited design flexibility.

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BrickShield® has received accreditation from the British Board of Agrément (BBA), making it an ideal choice for those looking to create energy efficiencies under the Energy Company Obligation (ECO) and the Green Deal.

BBA APPROVAL FOR BRICKSHIELD®

The only real brick slip external wall insulation system to achieve this recognition, BrickShield® is a joint development by Ibstock and Rockwool, the world leader in high performance stone wool insulation.

The accreditation follows three years of rigorous testing, with the BBA providing an independent assessment of the performance and durability of the system, including key areas such as thermal performance, strength and the stability of the system to wind loads. It also received the highest possible A1 rating for fire performance.

The accreditation means that BrickShield® not only offers outstanding aesthetics, but now also comes with independently proven system performance.

BRICKSHIELD® - AT A GLANCE...

1. Fix base profile. Capping areas are available.
2. Rockwool® Façade Ultra coated with BrickShield® Adhesive Mortar is then applied to sound, dry and smooth masonry.
3. Fix with BrickShield® Insulating Wall Anchors for ultimate durability.
4. BrickShield® Adhesive Mortar is then applied to the surface of the Rockwool® Façade Ultra. BrickShield® Natural Clay Brick Slips are laid onto the adhesive mortar, keeping to line and level for an even appearance.
5. Special shaped Clay Brick Slips are available for corners and reveals. Fix base profile. Capping areas are available.
6. BrickShield® Natural Clay Brick Slips are laid onto the adhesive mortar, keeping to line and level for an even appearance.
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Reveal trims and extended sills are fitted as required.

BRICKSHIELD® - AT A GLANCE...
Changing faces - BrickShield®

The versatility of the BrickShield® system makes it ideal for both new-build and upgrading projects – from existing hard-to-treat solid wall homes to modern apartment blocks. It’s a quick, efficient way of combining high thermal performance with a new, durable and maintenance-free real brick finish – in a full range of colours and textures to match any architectural style or period.

The refurbishment of three 1960’s 13-storey residential blocks in Chester’s Blacon District is part of a major regeneration scheme for the area. To minimise disruption to tenants, client, Chester and District Housing Association, used high performance external wall insulation systems to upgrade the thermal performance of the old No-Fines concrete walls, with the help of funding from British Gas. Whilst upper storeys feature a rendered finish, BrickShield® was specified for the lower two storeys to meet target U-values and provide a durable brick grounding and improved aesthetic to match the surrounding residential vernacular.

Ibstock provided design and technical support for the project, including toolbox talks emphasising the bricklaying principles and techniques associated with the brick cladding. As a result of the upgrade, external wall U-values have improved from 2.4 to 0.35 W/m²K.

The designers have cleverly utilised a system for its thermal qualities, displaying an insight into innovative ways to improve our built fabric whilst keeping the aesthetical beauty of the material.

Judges Report

This group of 104 Hawksley-type prefabricated metal-clad bungalows were in need of thermal upgrading and refurbishment to meet modern housing standards. BrickShield® was chosen by client, Plus Dane Housing Association, to provide the thermal upgrade needed whilst minimising disruption to elderly residents. They also preferred the durability and appearance of an authentic brick finish.

The project proved so successful that an extra 7 properties were completed within the original budget, and the first phase of 41 homes completed in just 16 weeks.

The terrace of 36 historic workers houses were typical of the local architectural style of the late 19th century, and formed an important part of Flintshire County Council’s Townscape Heritage Initiative.

When upgrading became necessary to ensure sustainable management and modern standards of performance, Flintshire County Council chose BrickShield® for its durability, cost-effectiveness and the opportunity it presented to restore and enhance the original polychromatic brickwork – an important part of the area’s unique industrial character.

Dee Cottages, Flint

Kitfield Avenue comprises a mix of privately-owned homes and social housing. When Plus Dane Housing Association were faced with upgrading their old solid walls of their stock to complement other recent thermal improvements, they needed an authentic brick finish, so as not to disturb the visual balance of the street.

BrickShield® was chosen for its outstanding performance, increasing the previous 2.02 W/m²K external wall U-value to an impressive 0.35 W/m²K and winning the project the title of ‘Best Refurbishment and Renovation Project’ in the prestigious 2012 BDA Brick Awards.

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ERACO project, Plot 9, BRE Innovation Park, Ravenscraig

Effectively a ‘retrofit R & D laboratory’, Plot 9 of the European ERACO STAR project at the BRE Innovation Park, Ravenscraig has been built to evaluate different thermal and acoustic upgrading solutions for Scotland’s poorly performing existing housing stock.

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Rendered elevations to the front and sides of the property are complemented by brick slip to the rear by Ibstock’s BrickShield® system, providing the very high levels of thermal performance demanded in combination with an external brick layer and highly flexible render.

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Research students from the University are working alongside specialists from Laing O’Rourke Engineering Excellence to monitor the performance of the external wall systems, as part of a comprehensive monitoring programme to provide valuable data for future low energy developments.

ERACO project, Plot 9, BRE Innovation Park, Ravenscraig

The building replaces one of Scotland’s thermally and acoustically worst performing apartment types, the ‘4-in-a-block’, of which approximately 265,000 exist in Scotland: four flats over two levels, in a traditional stone-decked form, provide a test bed for different retrofit solutions including external thermal cladding.

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Mark Group Eco-Centre, Nottingham

Part of The University of Nottingham’s Creative Energy Homes project, the Mark Group Eco-Centre provides a research vehicle for modern methods of construction and sustainable/renewable energy technologies.

The four-bedroom detached house has been designed by interdisciplinary teams of this teaching and research environment of architecture and building technology students.

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WHEN SCHEDULES ARE TIGHT AND THE PROJECT DEMANDS AN AUTHENTIC AND DURABLE BRICK FINISH, FASTWALL™ PROVIDES THE ANSWER.

Fastwall™ is an innovative weather resistant way to clad, fill, or build a wall with real bricks slips at incredible speed and efficiency. Fastwall™ can be supplied in virtually any brick type to replicate traditional brickwork perfectly.

VALUES TO USE FASTWALL™

The system is ideal for either exterior or interior applications. It has been successfully used on a wide range of projects including shop fronts where Fastwall™ rapid availability (typically 7 to 10 days) and rapid construction was highly prized to minimise the loss of trading, to the refurbishment of pedestrian underpasses where its high strength and durability was an essential element.

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Use Fastwall™ for:

FASTWALL™ PERFORMANCE

Fastwall™ is a precision engineered composite of 20mm thick brick slips bonded to a patented backing and featuring a unique interlocking system.

For example, the standard Taban panel covers 0.66m² and weighs just 24kg. Light weight makes Fastwall easy to install on site.

In addition to on site advice, a complete scheduling and take-off service is available as well as numbered panel kits with corresponding site drawings to ensure that even the most complex installation is hassle free!

Fastwall holds full third party performance accreditation by CERAM, the ceramic industry test centre.

FASTWALL™ COMPONENTS

**FASTWALL™ PANELS ARE APPLIED TO AN APPROPRIATE SUBSTRATE**

**FASTWALL™ INSTALLATION**

**FASTWALL™ COMPONENTS**

- **TABAN STANDARD PANEL 5 x 8**
- **DORSET PANEL 4 x 8**
- **LEFT & RIGHT WINDOW REVEAL**
- **30° EXTERNAL & INTERNAL CORNER PANELS**
- **45° EXTERNAL & INTERNAL CORNER PANELS**
- **60° EXTERNAL & INTERNAL CORNER PANELS**
- **GABLE CUT TABAN PANEL**
- **60° EXTERNAL RETURN**
- **45° EXTERNAL RETURN**
- **30° EXTERNAL RETURN**
- **LEFT & RIGHT STOPEND/STARTER**
- **JIRAN PANEL 2 x 8**
- **NIKEN PANEL 1 x 8**
- **GURBAN PANEL 3 x 8**
- **GABLE STAGGERS**
- **OVER CLADDING OF EXISTING WALLS**
- **LIGHTWEIGHT FRAMING**
- **LEFT & RIGHT STOPEND/STARTER**
- **90° EXTERNAL RETURN**
- **30° EXTERNAL & INTERNAL CORNER PANELS**
- **45° EXTERNAL & INTERNAL CORNER PANELS**
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- **60° EXTERNAL & INTERNAL CORNER PANELS**
- **GABLE CUT TABAN PANEL**
The challenge for contractors Barr Construction and ADF Architects was to meet a very tight 30-week build and refit deadline with no store closure – the first time in the company’s history that this had been achieved for a store outside London.

The solution was to use a steel frame clad with a 100mm thick composite metal cladding and finished off with the glazed grey panel frontage of the existing store.

After exploring alternative cladding solutions, the decision was taken to use Ibstock’s Fastwall™ system. Prefabricated offsite, the brickwork panels were fixed and jointed with standard mortar to give the appearance and performance of a normal brickwork wall.

A range of standard 8-course high panels were secured to timber battens and packers fixed through the composite cladding into the metal framework, with special external corner panels and stop-end units giving a crisp finish to window, door and corner detailing.

The use of hoists, rather than scaffolding, for fixing the Fastwall™ panels enabled external cladding of the whole area to be completed in just two weeks, contributing significantly to the very short overall build time.

Two horizontal bands of buff colour glass-reinforced cement units mimic the buff coloured soldier courses of surrounding architecture, whilst the choice of Ibstock’s Roughdales Red Multi Rustic and base courses of Ibstock Staffordshire Slate Blue Smooth harmonise the extension comfortably within the local vernacular.

Fastwall saves time and cost on a very tight build programme.
The Phoenix Care Centre is a state-of-the-art replacement for the old 1814 Grangegorman Mental Health facility, one of the oldest purpose-built facilities in Ireland.

Phoenix Care Centre, Grangegorman, Co. Dublin

The $4 billion secure unit has been designed to provide a non-institutional, non-threatening therapeutic environment for mental health patients.

The 54 bed low-secure unit has been designed to provide a non-institutional, non-threatening therapeutic environment for mental health patients.

The Phoenix Care Centre is a state-of-the-art replacement for the old 1814 Grangegorman Mental Health facility, one of the oldest purpose-built facilities in Ireland.

The panels which combine 20mm thick bricks slips of the same Grangegorman Blend bonded to a patented glass reinforced plastic (GRP) backing system were secured to a timber framework fixed to the exposed concrete soffits and packed with standard mortar to provide a continuous high quality matching finish.
A DIFFERENT VIEW OF BRICKWORK
ALEX CHINNECK

Sliding wall, Margate

Chinneck has created a unique effect to this derelict 3-storey house in Margate by replacing the original brick frontage with a new ‘slipped’ façade that leaves the upper storey open to view.

The lightweight wall construction uses Ibstock FastWall™ panels on a semi-rigid GRP substrate.

With guidance from Smith & Wallwork Engineers, the old building frontage was prepared by the removal of both bay windows and the complete upper storey façade, and the new panels fixed directly to a new timber batten framework.

At the lower storey, a timber joist framework has been used to create the sliding wall transition from vertical to horizontal.

Upside-down house, Blackfriars Road

This disused building on Blackfriars Road has been turned upside down as part of the 2013 Merge arts festival, held annually to celebrate the culture and heritage of London’s Bankside.

Originally a livery stables, the 1780 building had fallen derelict, until Chinneck’s artistic genius transformed it into a work of art.

With the help of Ibstock FastWall™ cladding system, it has been possible to recreate a realistic brick frontage with all of the complex structural detailing demanded by the upside-down design.

Artist
Alex Chinneck,
The Sculpture House, London
http://thesculpturehouse.co.uk

FASTWALL™ HELPS FUEL ARTIST’S INNOVATIVE APPROACH TO ‘RESHAPING’ OLD BUILDINGS.

Inspired by his upbringing amongst the old industrial architecture of London’s East End, artist Alex Chinneck, is fast gaining a reputation for his playful yet sculpturally complex, remodeling of derelict buildings.

In his search for new and ambitious applications of everyday construction materials, he recognised the simplicity, speed and versatility of design offered by the FastWall™ brick cladding system, and has use the full support of Ibstock Kevington on major building-related projects – some of which are shown here.

BRICK
Birtley Old, English

BRICK
Eaton Old, Chelsea Yellow
Clay Farm, Great Kneighton, Cambridge

A new large scale community on the outskirts of Cambridge, close to the City’s Addenbrooke’s Hospital, the Clay Farm development will deliver 2300 new homes, with a range of supporting educational, retail and community facilities.

Arranged around a central structured Court, reminiscent of the urban form of Cambridge colleges, the development transitions to a more rural atmosphere at its boundaries, reflecting the surrounding village vernacular.

A mix of low to three-story courtyard and courtyard terraced homes and larger clusters of smaller two and three-story homes, the site is characterised throughout by a base palette of Ivanhoe Cream stock bricks highlighted by distinctive textured panels of specially cut contrasting Himley Ebony Black bricks.

Reinforcing the contemporary theme, architects Proctor and Matthews have continued the brick detailing to the underside of large exposed ground floor soffits using Ibstock Fastwall™ panels. Solid brick lintels for the masonry, Ibstock Deep precast lintels, faced with matching bricks, ties and projects, create a lighter, more refined urban rural style and window openings. Brick pavers are created using split bricks, specially selected and cut by Ibstock Kevington to expose the perforation, and laid with the inside face out to create a distinctive textured appearance.

Around window openings, bricks are cut to the end perforation, providing a larger brick to suit the deep recessed designs.
The stark linear design, reminiscent of the style of the old cotton mills that still dominate the local architecture, has been reinforced by the use of Ibstock Staffordshire Slate Blue Smooth bricks.

**PRECAST AND BONDED BRICKWORK COMPONENTS**

Often used to create complex detailing such as feature arches and deep brickwork soffits, these products allow for creative designs and features and enable brickwork to be used in otherwise impossible locations on a building.

**PRECAST**

Boxes can be cut to include a ‘dovetail’ in the front to facilitate a precise fix between the brick and concrete as poured over the back of the box to form a Totally Rigid Connection. This method of manufacture allows everything, to be manufactured ‘in-house’ giving total flexibility and control. Precast products are manufactured at our Manchester and Thornton factories.

**BONDED**

An alternative to the precast method of manufacture, bonded components have been manufactured for three decades by Ibstock Kevington, at plants throughout the UK. These products are generally available with shorter lead times than precast products. All products are accurately cut and chemically bonded to concrete and alternative backing units to produce a wide variety of structural and non-structural components which allows for creative and innovative brickwork designs.

**DEEP SOFFIT UNIT WITH CAST IN FIXING CHANNELS**

To create these effects the surrounding brickwork bond is carried over the openings, whilst still maintaining an exposed brick soffit without the need for unsightly supporting steelwork.

The imposing brick façades are created by a combination of vertical projecting brick panels and deep vertical reveals and windows. These present the impression of three horizontal blocks, reinforcing the linearity of the design.

To complete the effect, Manchester-based 5plus Architects specified matching brick cladding to the underside of all projecting soffits.

With weight an issue on site, the original specification for pre-cast concrete units was substituted for an alternative design using stainless steel Underslung™ box section clad in Staffordshire Slate Blue Smooth brick slips. With unit weight below the 50kg two-man safe lift limit, the units achieved the same aesthetic effect, but at considerably lower weight and could be lifted safely into position by a two man team.

**UNDERSLUNG™ SOFFITS**

To create an impression of the old cotton mills that still dominate the local architecture, the new Ibis budget hotel has been designed to respect the heritage of an area that was key to the development of the Industrial Revolution.

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PRECAST ARCHES - BENTLEY PRIORY

Bentley Priory, Stanmore, Middlesex
Famous as the headquarters of Fighter Command during the Second World War and site of the war room where Winston Churchill, King George VI and US general Dwight Eisenhower monitored D-day, the historic Bentley Priory Estate is being restored and redeveloped to include a gated development of 2, 3 and 4 bedroom dwellings by Barratt Homes.

"Precast arches recreate style of historic mansion."
One of the longest established and most widely respected design awards in the UK, the annual Brick Awards recognise excellence in design, aesthetics and construction using bricks.

Anyone involved with the industry can enter – the only restriction is that the bricks or pavers used in your project must have been supplied by a BDA member company. Entry is free and all you have to do is submit good quality photographs, drawings and a 500 word description – full details and an entry form can be found at www.brick.org.uk/2014-entry-form.

Each year, the awards attract hundreds of entries, all vying to win one of 16 prestigious trophies, including the Architects Choice Award, the BDA Chairman’s Award and the BDA Supreme Award. More than 150 Certificates are also awarded to projects that make it into the final selection.

Entries can be made in each of the following categories:

- Best Housing Development – 1 to 5 Units
- Best Housing Development – 6 to 25 Units
- Best Housing Development – 26 Units or More
- Volume Housebuilding Award
- Best Commercial Building
- Best Public Building
- Best Refurbishment & Renovation Project
- Innovative Use of Brick and Clay Products
- Best International Project
- Specialist Brickwork Contractor of the Year
- Best Outdoor Space
- Best Craftsmanship Award
- Worldwide Brick Award

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BEST HOUSING DEVELOPMENT – 6 TO 25 UNITS

*Hargood Close, Essex*

Architect: Proctor and Matthews  
Products: Ibstock Parham Red Stock & Special Black

**WINNER**

**VOLUME HOUSEBUILDING AWARD – BARRATT HOMES**

*Trinity Village*

Architect: Malvern Homes  
Products: Arundel Yellow Multi Stock

**WINNER**

*Waterside Blocks D, E & F*

Products: Bradgate Harvest Antique & Bradgate Light Buff

*East Wichel*

Products: Fiber Sandstone Stock
Long Farm, Suffolk

Architect: Lucy Marston
Product: Ibstock Chailey Rustic Stock

Royal Road, London

Architect: Panter Hudspith Architects
Product: Ibstock Ivanhoe Cream & Ivanhoe Athena Blend

WINNER

BEST HOUSING DEVELOPMENT – 1 TO 5 UNITS

BEST HOUSING DEVELOPMENT – 26 UNITS OR MORE
Phoenix Care Centre, Dublin
Architect: Moloney O’Beirne Architects
Product: Ibstock Grange Gorman Blend

Alwyne Place, London
Architect: Lipton Plant Architects
Product: Ibstock Staffordshire Slate Blue Smooth

Ditchingham Passivhaus
Architect: Benedict O’Looney Architects
Product: Swanage Restoration Red

Peckham Mosque
Architect: Allies & Morrison
Product: Capital Brown Multi Stock & Petworth Multi Stock

St Andrews Phase 4
Architect: Mace & Partners
Product: Capital Brown Multi Stock & Peckham Multi Stock

BEST INTERNATIONAL PROJECT
WINNER
BEST REFURBISHMENT & RENOVATION PROJECT
WINNER
BEST HOUSING DEVELOPMENT - 6 TO 25 UNITS
HIGHLY COMMENDED
BEST REFURBISHMENT AND RENOVATION
HIGHLY COMMENDED
BEST HOUSING DEVELOPMENT - 26 UNITS OR MORE
HIGHLY COMMENDED

© Edmund Sumner
Deep reveals and soffits are increasingly popular design features that add an extra depth and dimension to masonry façades. The growing trend today is to continue the surrounding brickwork bond over the openings to retain an exposed brick soffit, seemingly unsupported by exposed steelwork.

Until recently, creating such a feature would have been a complex, costly and time-consuming process involving the drilling of bricks and threading of metal rods for support. This process is loathed by the trades and produces a sometimes inconsistent finish. With new Underslung™ systems from Ibstock, this is no longer the case.

A stainless steel channel is set along the top of the casting, complete with T-bolts to connect with shelf angles in a steel angle fixed to the face of the concrete structure. Two lifting-eye sockets are set alongside the dovetail channel to facilitate lifting and positioning of the homogenous units.

Bricks used for the units are usually taken from the same batch as those sent to the site, ensuring uniformity of appearance.

Units prepared in this way are ideal for making long or unusually shaped openings, where there is restricted access or little or no bearing surface.
Important information about CE MARKING

From 1st July 2013 it is mandatory for any construction product, covered by a harmonised European Standard (hEN) containing a ‘ZA’ annex, to carry a Declaration of Performance (DoP) and a CE mark.

Standard format clay brick and pavers have been covered by hENs since 2003 and Ibstock bricks have been CE marking since then. Although bespoke and ‘one off’ special products will not fall under the scope of the hEN and require CE marking, Special Shaped bricks generally will and must carry the CE marking.

Further information and Declarations of Performance can be found at: www.ibstock-ce.com

IBSTOCK GLAZED BRICK

Now in a virtually unlimited choice of colours, sizes and finishes to bring an extra dimension to your project.

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