BRICK-FACED SOLUTIONS
UK’S LARGEST BRICKWORK SPECIAL SHAPE AND MASONRY FABRICATION COMPANY
Ibstock-Kevington is the UK’s largest brickwork special shape and masonry fabrication company with 16 manufacturing sites across the country. Our nationwide coverage ensures that we can supply the products you need quickly and cost effectively supported by an experienced technical and design service.
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SOLUTIONS FOR BRICK-FACED SOFFITS AND LINTELS

Ibstock-Kevington offers a range of solutions for both structural and non-structural design features on a building project. We have an unmatched reputation as a specialist manufacturer of high quality components and façades in reinforced concrete.

Deep reveals and soffits are an increasingly popular design feature that adds an extra depth and dimension to masonry façades. 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 exposed supporting steelwork.

The unique expertise of Ibstock-Kevington in the design and manufacture of masonry soffits and lintels means we have developed effective solutions to realise this popular design feature on site. Underslung soffits are ideal for unusually shaped and long openings or where there is restricted access or little or no bearing surfaces available.

DESIGN ADVICE
An integral part of our service is our full 3D CAD design and structural engineering service. This ensures that we can turn your design concepts into quality, cost effective, easy to build structural or non-structural elements.

MATERIAL CHOICE
Our precise understanding of the properties of facing materials means that we can integrate them into most elements. Typical materials include ceramics, bricks, terracotta and stone, both natural and reconstituted.

QUALITY
Strict quality control of all the materials used means that the highest standards of accuracy and precision are maintained. This attention to detail even includes the provision of mechanical fixings and keys into the selected façade material for maximum durability and long service life. And for total peace of mind, much of what we do is covered by BBA certification or third party testing.
BRICK-FACED SOFFITS

Brick-Faced soffit units can be manufactured using different production methods, so our technical sales team will help advise you on the most appropriate solution for your requirements. Soffit units can be faced in any manufacturer’s brick to match your design.

OPTIONS AVAILABLE FOR 65 X 215 HEADER BOND. OTHER SIZES AVAILABLE.

**PRECAST SYSTEM**
- Dovetailed cut bricks
- Cast into precast concrete unit to suit section
- Cast in channel to suit loading
- Mechanically/positively keyed into the unit
- BBA accredited

**BONDED SYSTEM**
- Bonded brick slip to precast concrete backing structure
- Cast in channels/lifting eyes as required
- BBA accredited
- Precast sections to suit spans and section required

**STAINLESS STEEL NEXUS® SYSTEM**
- Two-part system allows full adjustment for perfect alignment
- Quicker to install - no mechanical lifting
- Lighter and easier to handle than precast concrete systems
- Simply bolt into position
- Designed and prefabricated to fit any size or shape soffit
- Any brick type and bond pattern can be accommodated
- Saves time and money
- Combined expertise of two leading manufacturers

Illustrations show Ibstock Kevington units which are to be used in conjunction with masonry support angles supplied by others.
TURNMILLS, CLERKENWELL ROAD

PRODUCTS USED: PRECAST UNDERSLUNG UNITS, STRUCTURAL WINDOW HEADS, RADIUS UNITS AND SILLS

THE CHALLENGE
This modern multi-use office, retail and leisure building is constructed on the site of the former Turnmills nightclub building – originally built as multi-storage stabling and storage for horse-drawn Hansom cabs. Architects, Piercy and Company needed a structural solution that would enable them to replicate the sturdy masonry character of the original building’s attractive curved façade.

THE SOLUTION
Constructed around a concrete frame, the new façade of handmade linear Petersen Tegl brickwork with deeply set punched windows, could not have been achieved using traditional brickwork techniques. Ibstock Kevington was therefore approached to provide a solution incorporating precast concrete units faced with the distinctive long, thin Petersen brick.

The design was achieved using precast structural window head units, in both straight and radius format. Precast lintel units and sills in matching profiles were then supported from the substructure to complete the horizontal inter-window sections.

All of the precast sections, installed by specialist brickwork contractors, Swift Brickwork, were faced with brick slips specially selected and cut from the main brickwork batch to ensure a seamless colour and texture match with the main façade brickwork.
BRICK-FACED SOLUTIONS | CASE STUDY - BOW RIVER VILLAGE

PRODUCTS USED: Nexus® Lintels; Nexus® Soffits

THE CHALLENGE
Surrounded by historic industrial buildings, the development is directly opposite a Grade I listed Mill House, the world’s largest remaining tidal mill. Frank Reynolds Architects adopted a classic Victorian Warehouse aesthetic, and needed flawless brick-faced soffits to hundreds of door and window heads to complete the visual.

THE SOLUTION
Ibstock Kevington developed a complete soffit and lintel solution using their lightweight Nexus® system, developed in association with structural support specialist, Ancon®.

Deep soffits above doorways to the ground and first floor were achieved using 215mm deep Nexus® soffit units with header bond facing, fixed to Ancon® MDC brick support angles, while stretcher bond lintels, manufactured 150mm longer to accommodate site variations and ensure perfect alignment with the main facing brickwork, were used at each window head. Deep flying beams above upper storey stairwells were created using ‘special’ soffit units, brick faced to all four sides and bolted to Ancon® MDC brick support units fixed back to the structural steel frame.

Contractor, Flahive Brickwork, was able to install and perfectly align the lightweight units in around one tenth of the time of traditional heavyweight alternatives, to meet the clients’ tight project delivery schedule.
“Being a two-part system, we found the Nexus® brick-faced support system easier to install on site than a single piece system. We were able to adjust it quickly and simply and appreciated the flexibility the two-part system offered.”

Marc Coleman - Project Manager - Flahive Brickwork
BRICK-FACED LINTELS

A lintel is a structural member spanning an opening between two vertical supports supporting masonry above it. Lintels can be designed to suit variations in shape, on plan and elevation, and provide brick or stone face or soffits, to a variety of spans and loading conditions.

There are 3 variations of format:
- Stretcher bond (maintain brickwork bond over opening)
- Segmentals & semi circles (providing a traditional brickwork feature)
- Soldier Course (providing a simple, effective brickwork feature)

OPTIONS AVAILABLE FOR 215 X 215 STRETCHER BOND. OTHER SIZES AVAILABLE.

PRECAST
- Cast in mechanical key
- BBA accredited
- Bespoke solutions

BONDED
- Brick slip bonded to precast concrete unit
- BBA accredited
- Bespoke solutions
- Cost Effective
- Shorter lead times

NEXUS®
- Lightweight
- Greater flexibility
- Designed to suit span and loads
- Variable face and soffit depths available

Designed and manufactured in partnership with:

Ancon®
CLAY FARM, GREAT KNEIGHTON, CAMBRIDGE

PRODUCTS USED: PRECAST LINTELS; FASTWALL SOFFITS, PRECAST PANELS

THE CHALLENGE
To reinforce the contemporary styling of this large scale development of mews streets, saw-toothed terraces and loose 2 and 3-storey homes, architects, Proctor & Matthews, wanted to achieve a brick face to the underside of all window heads, balcony features and large drive through ground floor soffits.

THE SOLUTION
Ibstock Kevington worked closely with the architect and contractor to design and supply large volumes of precast lintel and soffit units against a very demanding schedule.

Deep precast left and right hand lintels, up to 4.6m wide and faced with Ibstock brick slips to exactly match the main brickwork are used to create seamless transitions above door and window openings. Pre-engineered Fastwall panels, faced with matching cream brick slips and fixed back directly to the substructure, create a lightweight solution for large areas of drive through soffits at ground floor level.

To break up the mass of cream stock brickwork to building facades, Ibstock Kevington has also created special texture panels using contrasting black bricks, specially selected and cut to expose the perforation, and laid with the inside face out to create a distinctive textured appearance.
SILCHESTER ESTATE, KENSINGTON & CHELSEA, LONDON

PRODUCTS USED: PRECAST LINTELS; NEXUS® SOFFITS

THE CHALLENGE
The sharp, modern lines of the new multi-storey residential development are reinforced by deep brick-faced reveals and soffits. The challenge for architect, Howard Tomkins, was to find simple and reliable solutions for the 270-plus window heads and two large suspended soffit areas.

THE SOLUTION
Ibstock Kevington provided a complete bespoke solution using precast and Nexus® lightweight brick-faced units. Traditional precast units satisfied the majority of lintel requirements, while two 8-metre wide units, which could not be achieved in precast due to a demanding 75mm height limitation, were fabricated using lightweight Nexus® brick-faced units supported from an Ancon® Nexus® MDC brick support.

A large suspended brick soffit at the main entrance and a second triangular soffit at the corner of the community hub, both too complex for traditional pre-cast, were achieved using lightweight Nexus® soffit units – a two-part system combining high strength brick-slip faced soffit units with Ancon® brickwork support.

All cast and lightweight units were fabricated off-site to precise specifications and faced with Ibstock brick slips from the main brickwork batch, ensuring a flawless texture and colour match to the main façade brickwork.

“The lightweight (Nexus®) panels were quick to install with minimum handling – especially helpful at the community hub corner where we had 53 different pieces instead of 1 heavy precast panel which would have been very challenging to install.”
Adrian Lleshi - Project Manager, RI Works Ltd.
ARCHES

Arches are a traditional feature of brickwork over openings and can vary from the simple flat arch detail to the highly decorative. We can supply a solution to meet the requirements of your project, ranging from a traditionally built arch to a large scale precast arch or drive-through.

FEATURES AND BENEFITS

In order for the underside of the arch to be visible when finished, an arch with a fair faced soffit is required. These can be supplied loose or alternatively on structural concrete or steel backings avoiding the need for secondary support.

It isn’t always necessary to use secondary steel lintels with arches, the arches can be supplied fully structural on steel or concrete backings. These arches will always require mechanical handling. If an existing arch requires matching, we can carry out an on site survey to establish all the details and provide samples of arch material to ensure a perfect match.

The arches can be supplied pre-pointed with ‘penny joints’ if necessary down to 2/3mm.

The arches can work with standard steel lintels as they are 102mm thick as a standard, they can also be manufactured with larger soffits.

We are happy to handle all negotiations with the architect to ensure our products are approved. CAD drawings and technical information can be provided for this purpose.

NON STRUCTURAL

HYPERLITE ARCH

Constructed using a high tech backing material this system also incorporates 20mm brick arch slips which are bonded to the face to finish. Pointed on the ground and used in conjunction with a standard steel cavity lintel.

They have a compressive strength in excess of 13.0N/mm². The Hyperlite arch can be produced in one piece to a maximum 2000mm span and can be sectionalised to any length. Maximum 20mm fair faced soffit.

LOOSE ARCHES

Loose arch sets were the traditional method of arch supply and construction. They made up the majority of all arches which were supplied up until recent years and are still preferred by some heritage bodies and contractors with “traditionally skilled” bricklayers. They are supplied as individual units and are available in any length. They can be delivered quickly due to the simple nature of their manufacture.

Although loose arches can be self supporting, they should be used in conjunction with steel lintels in most situations. Full fair faced soffit.
STRUCTURAL

STRUCTURAL CONCRETE BACKED

A fully structural one piece arch system which omits the need for steel lintels. 25mm bricksips are epoxy resin bonded to the concrete backing units or alternatively a concrete backing is cast onto the rear face of the brick arch slips forming a natural mechanical key. Both systems are produced with stainless steel bearing plates for simple installation.

A fully fair faced soffit can be achieved upon request as illustrated. Available to lengths of approx 2500mm.

STAINLESS STEELBACK

Fully structural, and with all the advantages of the Concrete Backed system, the Stainless Steelback has the added benefit of less weight and increased span capabilities. Available with 102mm fair faced soffit (upon request). Maximum length: approx 4000mm.

Note. The inner skin blockwork would require independent support.

STAINLESS STEELBACK CAVITY

The premier, do it all arch in the Ibstock Kevington range. The Stainless Steel cavity arch provides the support for the inner and outer skins. It includes the unique Lintray system which guides any cavity moisture away from the face. These lintels are insulated and commonly used for fine flat gauged arch construction with pre-pointed joints. Available with 102mm fair faced soffit (upon request).

Maximum length: approx 4000mm.
There are numerous arch designs available to select from:

**FLAT GAUGED ARCHES**

- Ardingly
- Felbridge
- Malvern
- Stratford

**SEGMENTAL ARCHES**

- Bosworth
- Chelsworth
- Kimpton
- Double Rochford
- MELTON
- Heyford
- ROCHFORD
GOTHIC ARCHES

SEMI-CIRCULAR AND BULLSEYE ARCHES

TENBURY
TINTERN
ASHURST
WITLEY
STRETON
BOWDEN
KEYSTONE ARCHES

Keystones are a traditional arch detail and make an attractive feature. They can be incorporated into your arches in a variety of brick or natural stone coloured elements.

All arches are available in the following range of keystone colours:

- Glamis
- Portland
- Bath
- Sherwood
- Holyrood

The colours are the best photographic reproduction will allow, however selection should be made from physical samples, which are available on request.

Available Keystone Sizes

- 215mm
- 200mm
- 200mm
- 200mm
- 365mm
- 290mm
- 150mm
- 150mm
- 150mm
POUNDBURY

PRODUCTS USED: ARCHES – FLAT GAUGED, SEGMENTAL, SEMI-CIRCULAR AND ELLIPTICAL

THE CHALLENGE
Under construction on Duchy of Cornwall land to the west of Dorchester this high density mixed residential and commercial development encapsulates the Prince of Wales' vision of how communities should be built in the future, using traditional products and methods. The challenge for local builders, C Fry and Morrish Builders, was how to create structural arches in traditional style to meet the project's exceptionally high design and quality standards.

THE SOLUTION
Ibstock Kevington worked closely with the architects and builders to develop a series of brick-faced structural arch designs to meet the exacting standards of design and traditional brick finish required to meet the Prince's vision.

Over more than 12 years of site development, Ibstock Kevington has supplied thousands of precast arches to meet the build schedule for more than 1000 houses, apartments and commercial buildings. The precision cast arches, in Flat Gauged, Segmental, Semi-circular, Elliptical and Queen Anne format are, in each case, faced in brick slips specially cut from bricks supplied to the site by Ibstock and other brick manufacturers, to ensure a perfect colour and texture match for each building.

This unique project is planned for completion in 2034.
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The product photographs represent as accurately as possible, within the limitations of photography and printing, the colour of a representative sample of this range of products.