







We offer a diverse range of building products, solutions and expert technical and design services that enable our customers to create inspirational spaces and places.

Everything we do revolves around our valued customers and we continuously strive to exceed their expectations. We pride ourselves on leading for new, innovative and sustainable products and solutions, both for today and for a new era of building.

WE ARE at the heart of building. WE ARE Ibstock.



















Bricks and Masonry

Our bricks and masonry range is truly comprehensive. Take the widest brick range in the UK and add in walling stone, architectural masonry, cast stone products and specials and you are sure to find a product for your project.



Facade Systems

With the establishment of Ibstock Futures, Ibstock is demonstrating a clear ambition to grow into the Facades sector. With Ibstock Telling GRC, Mechslip, Nexus and Genbrix we already have some fantastic solutions for this space.



Roofing

Our wide range of concrete roof tiles for the new build housing market, including the innovative SL8 EVO and Gemini products, added to our high quality chimney options from Ibstock Kevington mean we've really got roofing covered.



Flooring and Lintels

A comprehensive range of flooring solutions and lintel products, including high fire rated options – with nationwide coverage delivered through our Supreme and Longley brands.



Staircases and Lift Shafts

Our bespoke high quality, Longley precast staircases and lift shafts are designed to meet your projects exact requirements.



Fencing and Landscaping

Ibstock offers a wide range of products for the fencing and landscaping sector – including high quality concrete fence posts from our Supreme brand or beautiful cast stone balustrades and pier caps from our Forticrete brand



Retaining Walls

Whether it is a retaining wall solution to prepare a new site or for a major infrastructure scheme – our Anderton brand gives us the products and technical expertise to deliver.



Rail and Infrastructure

Ibstock Rail and Infrastructure combines rail troughs, signal bases, platform copers and other products for infrastructure from our Anderton range – all harnessing the latest in concrete technology to minimise embodied carbon without compromising performance.

Design and Technical Services

We are committed to providing the best possible design and technical support to our customers. From expert advice to a sector-leading training and CPD provision, Ibstock's range of design and technical services are especially configured to give architects and specifiers the access to the support they need at every stage on their project journey – from concept to build.

www.ibstock.co.uk

Brick, the UK's favourite cladding material, is increasingly being used to deliver visually stunning buildings, with design elements that can sometimes appear to challenge normal structural principles.

Among these, and rising in popularity, are deep reveals and soffits where the main façade extends seamlessly to large areas of exposed brickwork forming overhangs and recesses.

These aesthetically pleasing features pose complex engineering issues, as these areas of bric must be held in place but with the necessary supporting steelwork remaining unseen.

To answer this challenge, Ibstock and Ancon, two of the UK's foremost innovators in prefabricated brickwork manufacture and support, created **NEXUS**, a range of advanced lightweight solutions that make modern brick-faced soffits and lintels achievable and easy-to-install.

And now, the range has been extended, developed further in response to the changing legislative landscape post-Grenfell.

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One of the major issues facing our industry today is fire safety, and companies such as ours, industry organisations and legislators are continually looking to develop new, innovative solutions to make the world a safer place.

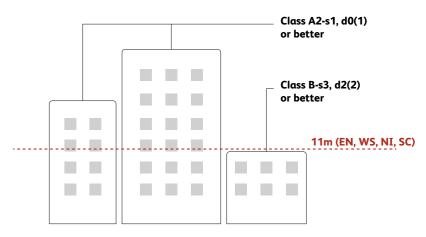
At Ibstock and Leviat we want to do 'the right thing' - our sense of responsibility stretches not just to our customers but to all those who encounter our work.

So when faced with challenges such as major changes in legislation, we see this not as an obstacle to overcome but as an opportunity to improve our product offering.

On 1st June 2022 `Approved document B: Fire Safety - Volume 1 & 2' was amended, with a direction that all materials used for cladding on residential buildings above 11 metres in the UK must be of `limited combustibility'. Within this guidance, allowed materials are those classed as A1 or A2 under the European Classification system.

It was these changes that led us to develop our world leading mechanically-fixed **NEXUS** soffit and lintel solutions, this family of products now extended to include the innovative **NEXUS**

Illustration of Approved Document B update



EN - England, WS - Wales, NI - Northern Ireland, SC - Scotland

NEXUS® BRICK-FACED SUPPORT SYSTEMS

NEXUS® UNBEATABLE INNOVATION

The BBA approved family of **NEXUS** brick-faced soffit and lintel systems is a next generation solution that brings together a high integrity steel Ancon support system with engineered brick-faced units from Ibstock.

Its lightweight design sees weight cut by more than half when compared to traditional precast concrete alternatives, and its ease of handling ensures it can be installed without the use of specialist lifting equipment.



- ✓ BBA approved
- Prefabricated off-site, making installation quick and inexpensive
- Two-part system allows full adjustment for perfect alignment
- Precision engineered using the highest quality materials, meaning it guarantees durability and cost effectiveness
- √ 100% corrosion resistant stainless steel
- Designed and prefabricated to fit any size or shape soffit
- Any brick type and bond pattern can be accommodated
- Manufactured in the UK
- ✓ Free technical advice and design service

THE **NEXUS**® FAMILY FULLY COMPATIBLE RANGE OF PRODUCTS

NEXUS ORIGINAL

Suitable for buildings up to 11m high

- BBA approved up to 11m
- Brick slips bonded to stainless steel units using high strength adhesive
- Established, proven system

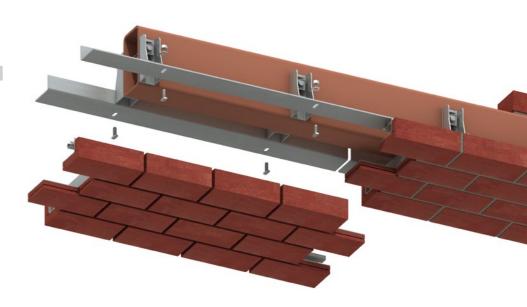
'NEW' NEXUS XI

Suitable for buildings over 11m high

- BBA Approved for all building heights
- Brick slips mechanically fixed to stainless steel unit at a minimum of three locations
- Complies with Building Regulations Approved Document B: Fire Safety 2022
- 'A' Fire Rating







WITH **NEXUS®** YOU GET DOUBLE



Double the expertise - combining the expertise of two of the UK's leading construction specialists



Double the knowledge - more than 150 years' experience in high integrity brickwork support and brick engineering



Double the technical support

- technical experts in both fields



Double the commitment

- two companies with a history of innovation, quality and excellent customer support

Ancon[®]

Part of Leviat, a CRH company, leading masonry support brand, Ancon, has a global reputation for innovation, quality and customer service.

The Ancon range of steel components provides strength and stability to buildings and structures around the world. Trusted for their integrity, reliability and compliance, Ancon steel fixings are precision-manufactured to perform in the most demanding concrete and masonry applications.



Part of the UK's leading manufacturer of clay and concrete building products, Ibstock is the foremost provider of brick special shapes and prefabricated masonry components.

Recognised for its technical expertise in designing precision manufactured prefabricated and precast elements, Ibstock specialises in simplified solutions for traditionally complex construction requirements.

NEW NEXUS® XI BRICK-FACED SOFFIT AND LINTEL SYSTEMS

NEXUS XI, the latest addition to the NEXUS family, provides an innovative mechanically fixed suspended brickwork soffit and lintel solution.

NEXUS XI has secured an 'A' fire safety rating from the BBA, meaning it can be specified and installed with confidence on high-rise residential buildings over 11 metres, in compliance with the recent amendment to Approved Document B of the Building Regulations.

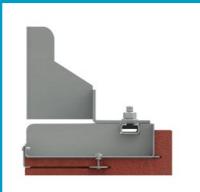
The system comprises a stainless steel soffit tray or lintel with a semi-flexible bedding agent retained in the system to reduce vibration between the stainless steel and brick slip, securing a fire rating of A2,S1,D0.

Alongside its key safety credentials, NEXUS~XI packs a number of other primary benefits, including:

- ✓ Quicker to install no mechanical lifting
- √ 70% lighter on average than precast alternatives
- ✓ Simply lift into position
- Designed and prefabricated to fit any size or shape soffit
- ✓ Any brick type and bond pattern can be accommodated



For ultimate durability, **NEXUS XI** has been engineered as a mechanical fix solution. This means that each individual brick on the suspended brickwork system is held in place at a minimum of three mechanical fix locations.



MECHANICAL FIX SOLUTION

100% stainless steel mechanical fix solution, fixes straight into stainless steel tray. Proven durability and maximum corrosion resistance.



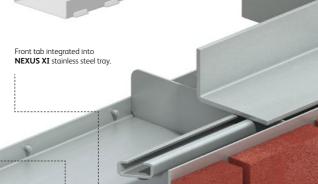


















NEXUS® ORIGINAL AND NEXUS® XI BRICK-FACED SOFFIT SUPPORT SYSTEMS

The **NEXUS** range of brick-faced soffit systems comprises both standard and bespoke solutions to enable the creation of deep reveals and soffits. Typical solutions are shown below. Bespoke solutions including other brick arrangements can be designed to suit project requirements. Please contact us for more information.



- ✓ Available in **NEXUS Original** and **NEXUS XI**
- ✓ Two-part system allows full adjustment for perfect alignment
- ✓ Lightweight design simply bolt into position
- ✓ Designed and prefabricated to fit any size or shape soffit
- ✓ Any brick type and bond pattern can be accommodated

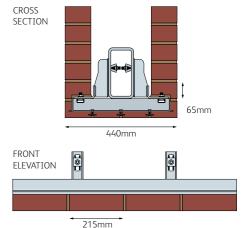
65 x 440 x 65mm

WITH STRETCHER BOND

Used to create doublesided soffit details providing continuity to the main brickwork façade.

Each soffit unit is designed to interlock with the adjacent unit providing a flawless transition once the brickwork is pointed.



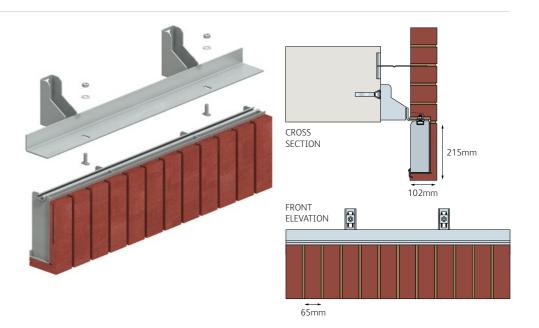


215 x 102mm

WITH SOLDIER BOND

A simple, effective means of creating feature soldier course details above door and window openings.

Brick slip facings can be manufactured from the same batch as the main brickwork to present a perfect colour and texture match for a flawless transition.



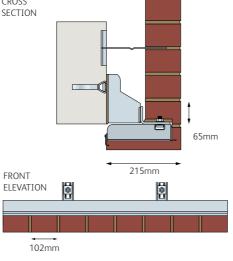
65 x 215mm

WITH HEADER BOND

A simple, effective means of creating feature header details and reveals, with the header bond differentiating the soffit from the main façade.

Brick slip facings can be manufactured from the same batch as the main brickwork to present a perfect colour and texture match.



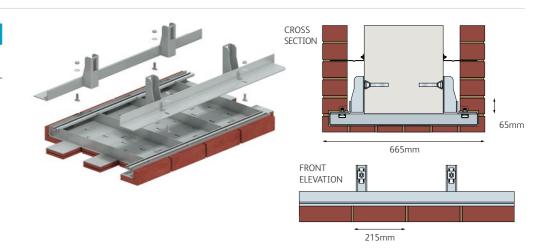


65 x 665 x 65mm

WITH STRETCHER BOND

Used to create doublesided soffit details providing continuity to the main brickwork façade.

Each soffit unit is designed to interlock with the adjacent unit providing a flawless transition once the brickwork is pointed.

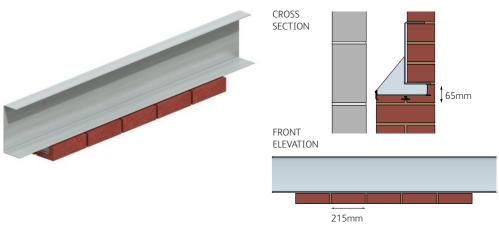




65 x 215mm

WITH STRETCHER BOND

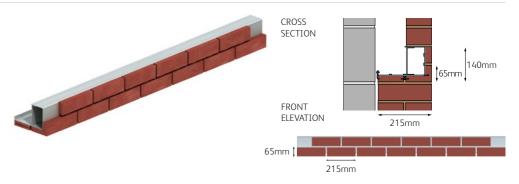
Used to create stretcher bond header details and maintain the brickwork bond over openings.



140 x 215mm

WITH STRETCHER BOND

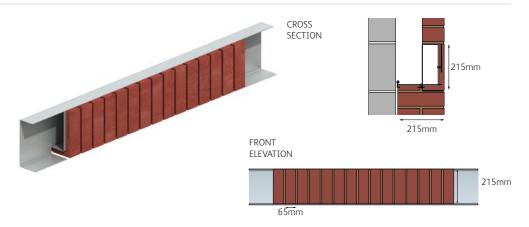
Used to create stretcher bond header details and maintain the brickwork bond over openings.



215 x 215mm

WITH SOLDIER BOND

Used to create soldier course header details providing a simple, effective brickwork feature.

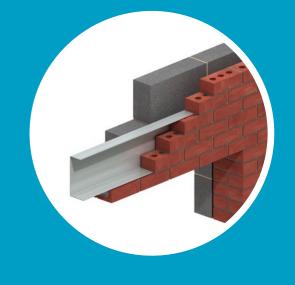


NEXUS® ORIGINAL AND NEXUS® XI BRICK-FACED LINTELS

NEXUS brick-faced lintels are designed to carry a single leaf of a cavity wall. Prefabricated from stainless steel for maximum corrosion protection, they offer a quick and simple way of creating deep soffits above window and door openings.

They are ideal where speed is important - the permanently bonded brick slips, applied off-site, are manufactured from the same batch as the main brickwork providing a seamless blend meaning no compromise on quality or appearance. The lightweight design means the lintels can be simply lifted into place by hand, with no mechanical lifting equipment required, saving time on site.

- ✓ Available in **NEXUS Original** and **NEXUS XI**
- ✓ Manufactured off-site
- ✓ Lightweight, one-piece design simply lift into place
- ✓ Designed to suit a variety of spans and loads
- ✓ Variable face and soffit depths available







DESIGN ADVICE

An integral part of Ibstock's service is a 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 elements. Contact us with your requirements.



CPD SEMINARS

Delivered by Ibstock's design advisors, who have considerable experience of these systems and in answering questions from both specifiers and contractors.



NBS SPECIFICATION CLAUSES

Product information is listed within NBS Plus, part of the NBS industry standard specification software used by architects, building surveyors and other construction industry professionals. This means that technical information for our products is available to NBS subscribers, in NBS format, at the relevant point in the specification.



PROJECT MANAGEMENT

We will work closely with you to coordinate the design, manufacture and delivery of the complete system to suit site progress.



CONTRACT SUPPORT

Our technical and design staff are available to attend office and site meetings to provide assistance at any stage in the process including pre-tender and pre-contract.

ANCON MDC NEXUS ORIGINAL BRACKET ANGLE SUPPORT SYSTEM

Ancon MDC Systems are tailored to suit each project. Each system is based on the cavity size at the support and the unfactored masonry load to be carried. An economical configuration of channel, bracket and angle will be designed.

Specify MDC **NEXUS Original** / cavity / unfactored masonry load e.g. MDC **NEXUS Original** /75 / 5.6.

A standard system will be designed to suit a 75mm cavity and carry 5.6 kN metre run of masonry (unfactored).

IBSTOCK NEXUS ORIGINAL SOFFIT UNIT

Brick or masonry slips permanently bonded direct to a grade 1.4301 stainless steel unit using a high strength bedding agent. The size of the unit and bond pattern of the brick slips are tailored to suit project requirements.

IBSTOCK NEXUS ORIGINAL LINTEL

Brick or masonry slips are permanently bonded direct to a grade 1.4301 stainless steel unit using a high strength bedding agent. The size of unit and bond pattern of the brick slips are tailored to suit project requirements.

ANCON MDC NEXUS XI BRACKET ANGLE SUPPORT SYSTEM

Ancon MDC Systems are tailored to suit each project. Each system is based or the cavity size at the support and the unfactored masonry load to be carried. An economical configuration of channel, bracket and angle will be designed.

Specify MDC **NEXUS XI** / cavity / unfactored masonry load e.g. MDC **NEXUS XI** /75 / 5.6.

A standard system will be designed to suit a 75mm cavity and carry $5.6\,kN/metre$ run of masonry (unfactored).

IBSTOCK NEXUS XI SOFFIT UNIT

Engineered brick or masonry slips mechanically fixed to a grade 1.4301 stainless steel unit. The size of the unit and bond pattern of the engineered brick slips are tailored to suit project requirements. Specify face and soffit dimensions and bond pattern to be included on the **NEXUS XI** unit.

IBSTOCK NEXUS XI LINTEL

NEXUS XI Lintels are designed to carry a single leaf of a cavity wall. Tailored to suit each project, specification is based on the span of the opening and load to be supported. Engineered brick or masonry slips are mechanically fixed to the grade 1.4301 stainless steel lintel. Specify opening size, face and soffit dimensions and load to be supported.

STEELWORK

High grade stainless steel, manufactured in a BS EN 1090-1 approved factory and CE marked.

FIXINGS

Stainless steel grade 1.4301 slotted nuts, set screws, circular washers and Rivnuts.

BRICK SLIPS

 $25 \mathrm{mm}$ thick and manufactured in accordance with BS 4729 and BS EN 771-1 and CE marked.

BEDDING AGENT

Brick-Fix 31 A2 Firebond. Reaction to fire classification A2-s1, d0.

NEXUS XI has been tested by Lucideon for long term durability, including resistance of cladding and metal support tests, to comply with a robust BBA certification process as well as NHBC approval.





NEXUS® BRICK-FACED SOFFIT AND LINTEL SYSTEMS INSTALLATION GUIDE

Brick-Faced Soffit Systems

NEXUS soffit units are designed to be simply lifted and bolted to pre-installed Ancon MDC brick support angles. Each soffit unit comprises a stainless steel carrier with integrated Ancon channel to simplify installation to the brick support angle.



This video highlights the benefits of the system and demonstrates how quick and easy it is to install. Scan the QR code to watch the video or visit www.ibstockbrick.co.uk/nexus



Both **NEXUS Original** and **NEXUS XI** are installed in the same simple way.

Brick-Faced Lintels

NEXUS lintels are designed as a lightweight one-piece system which can be simply lifted into place.

STEP 1

STEP 2

masonry support angle.

Install MDC **NEXUS** masonry support system in



Place the **NEXUS** soffit unit's T-head bolts in the

angle. Ensure the T-head bolt is fully turned and

STEP 3

If the angle is correctly levelled there should be no need to add shims between the soffit unit and the angle. If however shimming is required then they should be and extend for the full contact area between soffit unit and angle. They must NOT be placed in any other location other than around the bolt as this will lead to deformation of the angle when the bolts are torqued.

NOTE: The bolt should have a minimum of two threads visible above the nut, if shimming has reduced this clearance, longer bolts will be required.



STEP 4

Add washer and nut to bolts and finger tighten onto

Once satisfied with the line and level of the soffit unit, the bolts should be torqued to 20Nm.



STEP 5

practice and the Ancon MDC Masonry Support

NOTE: The movement joint in soffit hung details is

STEP 6

STEP 1

Raise the inner and outer leaves simultaneously maximum height difference of 225mm. Masonry should be laid on a full mortar bed and all perpendicular joints should be fully filled.

Allow the mortar to cure before applying floor or



STEP 2

openings, a central prop can be used. A board should be used between lintel and prop to protect



STEP 3

Lintels should be installed with at least 150mm end Ensure lintel is level along the length and width.



STEP 4

The NHBC, PD6697 recommends a damp-proof course (DPC) or cavity tray is installed over all openings in external cavity walls.



STEP 5

Weep-holes should be provided in the outer leaf A minimum of two weep-holes should be provided per lintel. For fair-faced masonry, weep-holes should be provided at centres not greater than 450mm.



STEP 6

dropping through the cavity onto the lintel and obstructing the weep-holes.

STEP 7

Brick slips should be pointed using the same mortar as the rest of the brickwork, but only after the full load has been applied to the lintel.













To discuss your **NEXUS®** requirements, simply call us on **0844 736 0350** or email **nexus@ibstock.co.uk**

Ibstock

Ancon Masonry Support Products

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www.ibstockbrick.co.uk/nexus

www.ancon.co.uk/nexus



