



Ibstock
At the heart of building

IBSTOCK FUTURES
Modern Methods
of Construction Systems

WE ARE
Facades and more.



Ibstock Futures

Ibstock Futures aims to enable the full potential of MMC in the UK by working closely with developers and contractors on new construction systems, bringing industrialisation to the supply chain and influencing design for manufacturing and assembly from early stages of conception.

This will contribute to more sustainable construction while improving overall productivity in the construction value chain.

Our initial areas of focus:

- Mid to High Rise Facades
- Low Rise Modular House Building

Ibstock Futures' strategy responds to two key trends:

- Sustainability
- Addressing construction's productivity challenges through offsite manufacturing



Ibstock Futures



How we implement our strategy and drive progress:

- **Design For Manufacture and Assembly (DFMA)**
- **Construction Systems**
- **Emerging Technology**
- **Modern Methods of Construction (MMC) Platforms**
- **Efficient Retrofit and Refurbishment**



WE ARE Facades and more.

ENABLING MODERN METHODS OF CONSTRUCTION
IN THE MID TO HIGH RISE AND MODULAR SECTORS

Since formation Ibstock Futures has built a compelling offer through our comprehensive facade portfolio.

Our Systems:

- Provide a varied aesthetic solution that can reproduce complex architectural features
In Brick, Stone, GRC & Porcelain
- Lower carbon content than traditional material alternatives
- Address the productivity challenge in construction
Faster to build/assemble, reduced labour demands and lower reliance on skill

Buildable

Designable

Reliable

Sustainable

05

Infinity
Extruded Porcelain
22



GRC
26



BRICK FACED GRC
30



MECHSLIP
10



NEXUS
14

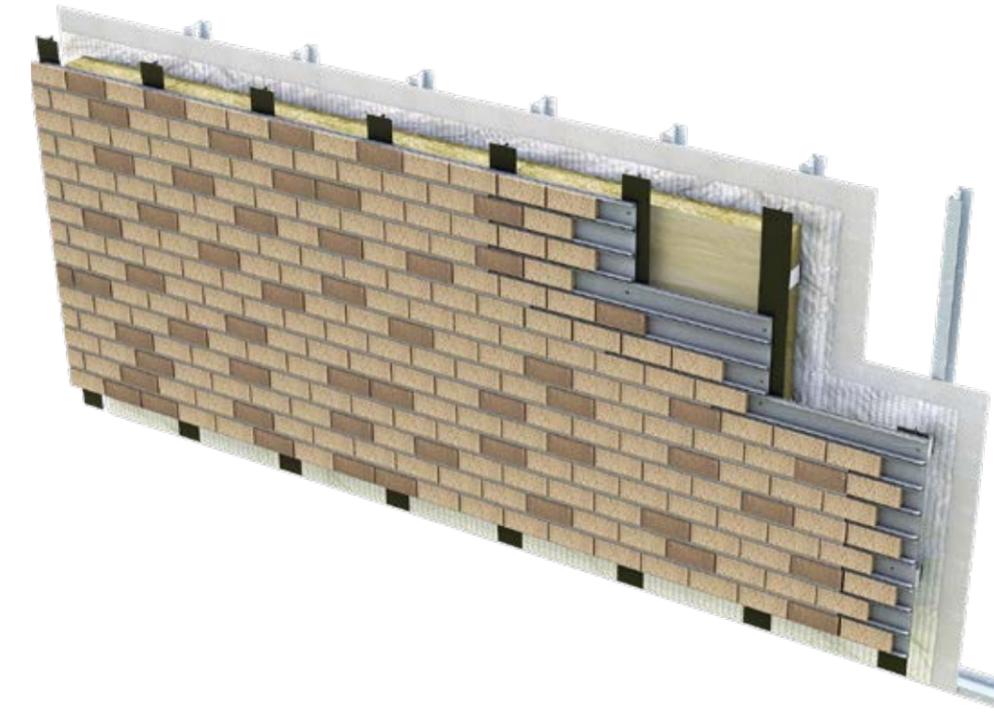


GENERIX STONE
CLADDING
18



GENBRIX
05





What need does it solve?

On site, time is money, delivering installation at speed helps reduce project critical path.

How does that solution work?

Simple and fast to install the unique interlocking three course brick track, eradicates the racking movement in volumetric and podular construction, often enabling pre pointing at the factory before delivery to site. Reduced complexity allows for lower labour costs.

Buildable

The use of our Genbrix system on Webster Court, Norwich enabled the modular units to be pre pointed at the factory before being transported to site. Once on site the units were craned into position in just three days.

System Advantages

- Cost effective for recladding in local authority housing
- Speed of installation - triple rail carrier plate reduces setting out time, as upper rails lock/clip to lower rails mechanically
- Specially designed with MMC in mind
- Can be fixed to timber frame and/or SFS
- Non-combustible
- Does not require brick spacers
- Mortar silos not required on site
- Install not weather dependent
- Lightweight (approx. 55kgm² - approx 78% lighter than traditional)
- CWCT tested
- BDA approved
- 60 year life expectancy
- 3rd party NHBC Approval





What need does it solve?

For high rise projects where time is key but so to is design, Mechslip offers benefits in reducing construction programme timescales without compromising the aesthetics of the design.

How does that solution work?

MechSlip's mechanically fixed rail system is easy to install, requiring no specialist brick mason. The system delivers a truly stunning real brick finish and guarantees long term durability.

Designable
Brick returns leading into windows, eye-catching vertical coursing and large curved soffits all contributed to form the striking final facade of Lewisham Exchange.

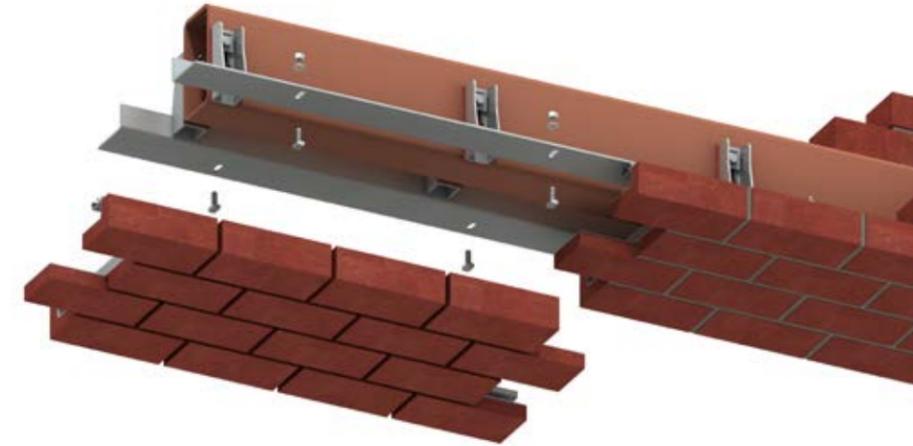
System Advantages

- Over 300 real bricks including glazed and specials
- Over 40 standard details simplifying intricate brick work
- Quick to install
- Install not weather dependent
- Mortar silos not required on site
- Lightweight
- Non sequential installation allows for overlapping activities onsite
- Non-combustible, A1 fire rated
- BBA approved
- CWCT tested
- Free technical advice and comprehensive design services



Project
Lewisham Exchange, London





What need does it solve?

Adding depth and complexity to your facade while improving productivity on site.

How does that solution work?

Nexus XI with its lightweight design sees weight cut by more than half when compared to traditional precast concrete alternatives, and its ease of handling regularly enables it to be installed without the use of specialist lifting equipment. Creating floating brick work or intricate patterns for soffits and lintels has been made difficult with skill shortages and the need for more efficient construction.

Designable

Stonebridge is an excellent exhibition of the versatility of Nexus XI. The project utilises a combination of both hanging soffits and lintels with stretcher and soldier bond brick patterns.

System Advantages

- Lighter than precast alternative
- Specially engineered for soffit and lintel application allowing for faster installation
- Prefabricated offsite
- Enables architects and designers to have a continuation of their brickwork in a soffit reveal
- Metal to metal mechanical fix
- BBA approved
- Two-part system allows full adjustment for perfect alignment
- 100 % corrosion resistant stainless steel
- Any brick type and bond pattern can be accommodated
- Manufactured in the UK
- Free technical advice and comprehensive design services





For Further Product Information
Visit www.ibstock.co.uk



What need does it solve?

Achieve a natural stone facade whilst retaining the benefits of reduced weight, shorter construction programmes and the cost reductions associated with the use of thinner stone.

How does that solution work?

Generix Stone cladding comprises of 20-30mm natural stone panels that are secured to the Generix Lite rail system using a unique 4 way clip. The system design facilitates fast and uncomplicated installation saving time and cost. This makes Generix Stone cladding the obvious choice in stone built conservation areas.

Reliable

Generix Stone Cladding is non-combustable and compliant for use on buildings between 11-18m. The system is highly durable and has been fully CWCT tested at a UCAS accredited test centre.

System Advantages

- Natural stone finish
- A1 non-combustible
- CWCT tested
- Reduced weight, compared to traditional stone
- Highly durable
- Fast installation speed resulting in shorter construction programmes
- Cost reductions associated with the use of thinner stone
- Modern solution for heritage/conservation areas
- Free technical advice and comprehensive design services

Project

Northampton Museum and Art Gallery, Northampton





For Further Product Information
Visit www.ibstock.co.uk



What need does it solve?

A non-combustible system with rapid installation capability without compromising on aesthetic variety

How does that solution work?

Inherently non-combustable and simple to detail and install, Infinity implements a unique lithographic printing process that enables us to replicate any natural or synthetic appearance such as natural stone, wood and metallic effects, with a standard range of porcelain through colours available.

Buildable

Infinity panels are secured to vertical rails using the patented one piece four way stainless steel clip attached by tekscrews. This uncomplicated fixing method along with the system's lightweight allowed for rapid installation on site saving both time and money on the project.

Advantages

- A1 non-combustible
- Lightweight
- Cost effective
- Quick to install
- Fully interchangeable with Generix stone cladding system
- Vast range of finishes
- Free technical advice and comprehensive design services





What need does it solve?

A durable large format, offsite solution with a fully customisable profile but with the advantages of reduced weight and lighter environmental footprint than precast concrete.

How does that solution work?

Our GRC offers a low maintenance offsite facade solution that is highly durable whilst only 20% the weight of pre-cast concrete alternatives, increasing speed and ease of installation and dramatically reducing environmental impact. Cast from bespoke moulds, our GRC gives designers full control over panel profiles.



Sustainable

Across the facade build the client was able to mitigate waste through offsite construction of GRC panels that carefully optimise material usage. Further to this site waste was significantly reduced, all packaging and crates are collected for recycling.

Advantages

- A1 non-combustible
- Full design flexibility with panels cast from bespoke moulds
- 100-year BRE assessed system life
- GRC is a 1/4 of the carbon of traditional Precast concrete
65 kg/m² = 26.60 kg CO₂
- Offsite fabrication
- Just in time and just in sequence delivery
- Reduced weight saving time in installation and cost on transport
- Design with a varied range of colours, textures and geometric forms
- Free technical advice and comprehensive design services





Brick Faced GRC

Glass Reinforced Concrete

For Further Product Information
Visit www.ibstock.co.uk



What need does it solve?

A durable large format, offsite solution with the advantages of reduced weight and a lighter environmental footprint than traditional alternatives.

How does that solution work?

Hand-made, extruded or standard brick slips, 16 to 24mm thick, are mechanically fixed to the Grade 18p GRC with threaded stainless steel rods embedded in the rear face of the brick. Our Brick faced GRC offers a low maintenance offsite facade solution that is highly durable whilst remaining significantly lighter than pre-cast concrete and traditional brick alternatives, increasing speed and ease of installation and dramatically reducing environmental impact.

Buildable

Despite the site's busy London location the constrained access was obviated through offsite construction. Minimal site storage was required as panels were delivered to site to suit the sequence and direction of the cladding installation.

Advantages

- A1 non-combustible
- Huge range of bricks available
- 100-year BRE assessed system life
- Brick faced GRC has reduced carbon footprint compared to traditional brick and precast concrete - 110 kg/m² = 56 kg/m² CO₂
- Offsite fabrication
- Just in time and just in sequence delivery
- Reduced weight saving time in installation and cost on transport
- Design with a varied range of colours, textures and geometric forms
- Free technical advice and comprehensive design services



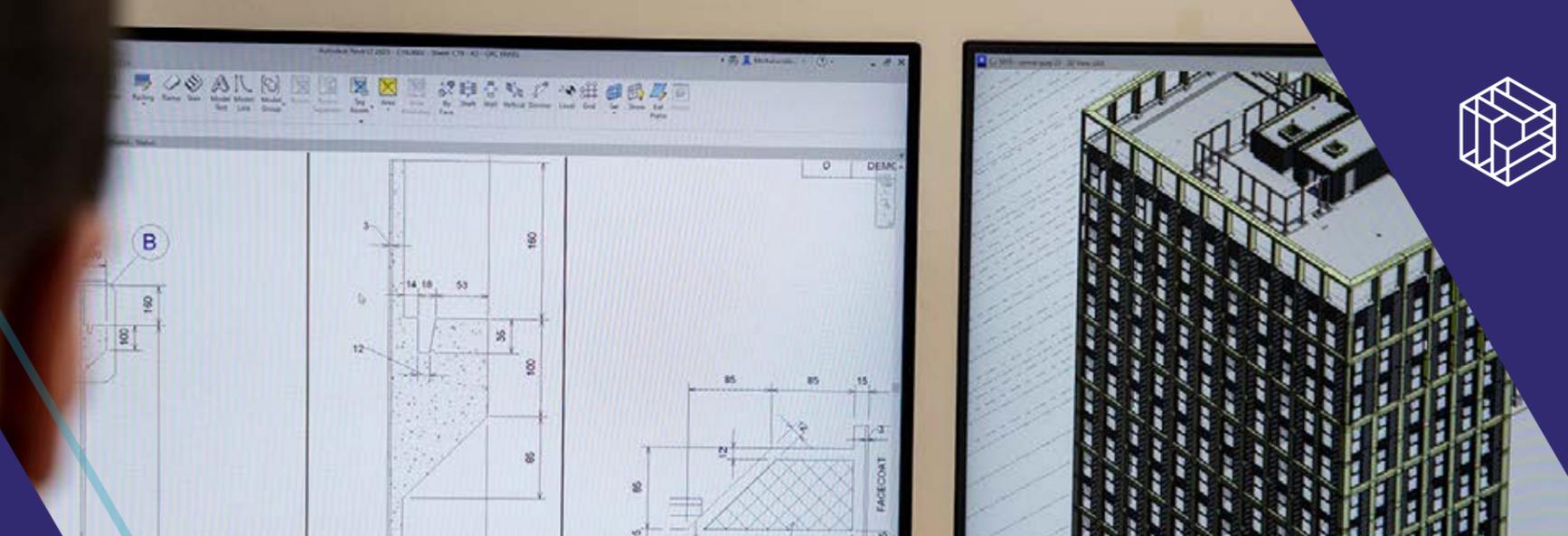
Looking ahead

UK's First Automated Brick Slip Systems Factory - Nostell

- Production method designed specifically for MMC – product deliveries to specific delivery timescales
- Innovative technology will deliver a significant reduction in carbon compared with imported and domestic cut slips
- Utilising digital decoration to achieve an extensive array of desired finishes
- Automated cutting will enable a diverse range of different slip thickness
- Ability to automate brick slip corner manufacture, removing project bottlenecks
- Increased capacity through automation will reduce product lead times

Brick Slips

- Excellent durability and low maintenance of natural clay
- Environmentally sensitive and sustainable manufacture to BS 14001
- Slip Bricks match the equivalent standard brick for colour, size and texture
- Our wide choice makes matching existing buildings easy
- 0.8kg in weight - 25-28mm - allowing for a 10mm deep mortar joint – necessary for durability
- Manufactured (extruded) Corner and special shapes available - derives less waste in production.



For Further Design Information
Visit www.ibstock.co.uk



Supporting your project from Concept to Build

At Ibstock Futures we offer comprehensive design support. Our experienced in-house team is on hand throughout the planning, specification and production process to advise procurement, design and detail support systems varying from the most simple and economical to more complex bespoke solutions, each designed to withstand loadings applicable to the individual structure.

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, our services have been especially configured to ensure architects and specifiers have access to the support they need at every stage of their project journey – from Concept to Build.

Contact our design team to discuss your project design@ibstock.co.uk

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Mechslip

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GRC & Brick Faced GRC

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Genbrix, Generix Stone Cladding & Infinity Extruded Porcelain

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