

SYSTEM SOLUTIONS

# Modular Façade Systems

The right façade choice for modular construction





# Modular Construction

As the UK continues to address the housing shortage, modular construction has become increasingly popular as a quick and cost effective way to build new homes.

With precision designed units manufactured in controlled factory conditions, it is important that systems and materials are utilised to aid the speed of production, while also providing an attractive, lightweight, yet durable finish.

Thermal performance and design flexibility are a major aim for house builders adopting modular construction. Therefore, our technically approved and certified Modular EWI systems can provide energy efficient solutions to any units built offsite.

We have developed EWI systems that have been specially designed to be applied in factory controlled environments, speeding up the process and suitable for use with a variety of modern construction techniques.



Our modular build system can work with a variety of construction techniques:

- ✓ ICF
- ✓ SIPS
- ✓ Wood-Cement Blocks
- ✓ Modular Timber Frame
- ✓ Modular Steel Frame
- ✓ Lightweight Panel Systems





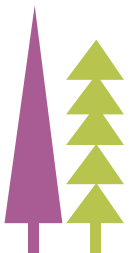
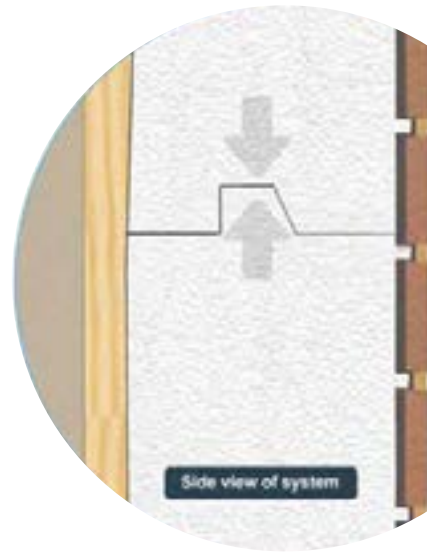
# Modular Brick Slip System

Our Modular Brick Slip system is a high impact unique clay brick slip available in a range of finishes and thicknesses (9mm and 15mm) enabling a traditional brick appearance to be achieved in significantly reduced installation times.

Wetherby clay brick slips are manufactured and fired in the same way as traditional clay bricks, providing a genuine brick finish. We also offer a range of pre-formed corners, also known as pistols, which contribute to the speed of application.

The unique tongue and groove interlocking configuration is designed on larger high density EPS insulation boards (1200mm x 1200mm). This significantly reduces boarding installation times while offering superior strength, high levels of impact resistance and protection against water ingress.

For projects utilising this finish, the insulation boards are ribbed to provide the course for the brick slips. Adhesive is applied to the boards and the brick slips are pressed firmly into place between the ridges ensuring the brick slips can be accurately placed in line and level. This method reduces application times and the need for skilled labour. Once set, pointing can be completed in the traditional manner. Once the houses are erected on site, the final brick slips can be applied at the mid floor joints and pointed to give a seamless brick elevation.







# Modular

## Thin Coat Render Systems

Offering a lightweight finish for modular built properties, our thin coat renders are flexible in nature, making them ideal for application onto off-site construction properties. They can be applied off-site during the manufacture process or on site once the modules are in place, offering versatility to contractors and housing developers.

The flexible anti crack formulation and UV resistant pigments allow for areas to be seamlessly rendered with perfect colour consistency.

Enabling a wide variety of appearances to be achieved, our thin coat renders include silicone, acrylic and mineral renders, which are available in more than 360 different colour shades and a variety of textures. While our stone render can replicate a real stone block work appearance at a fraction of the price.

Our available thin coat render finishes for Modular systems are:

- ✓ Silicone / Acrylic
- ✓ 4 Seasons
- ✓ Mineral Render
- ✓ Stone Render







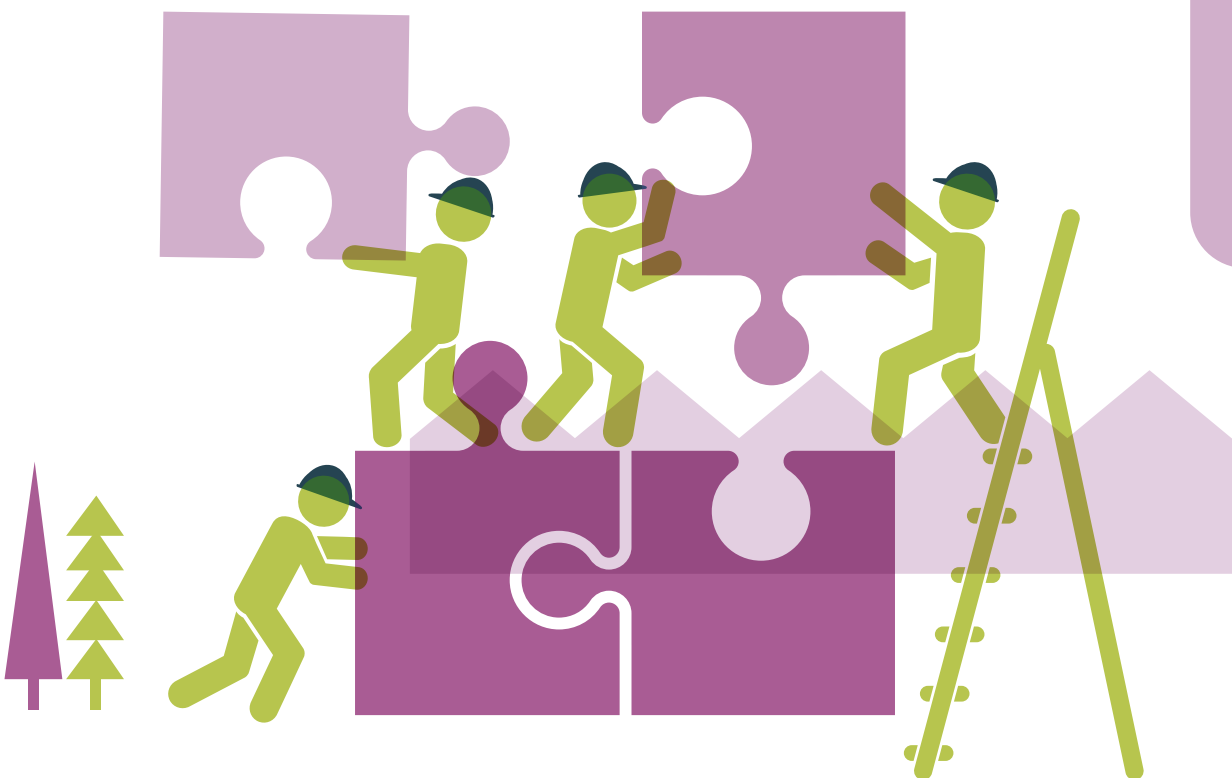
# Modular Render Carrier Board System

Many new build construction techniques are now able to meet required thermal values, using SIPS or insulated steel/timber frame systems, meaning a render carrier board is an ideal solution where U-values are already achieved by installing the insulation within the structure.

Wetherby's Render Carrier Board is a high specification class A1 non-combustible board, which has been specifically designed for direct render applications, making it ideal for modular construction projects. Typically specified for use on timber frame and steel frame structures, our Render Carrier Board can be mechanically fixed directly to either timber battens or Wetherby cavity rails.

Using our render carrier board reduces wall thickness, increasing the building's internal floor space and reduces the buildings footprint providing a durable external skin with excellent impact resistance.

Offering ultimate flexibility for architects and end clients, our render carrier board is suitable for a wide range of unrivalled Wetherby finishes, including any of our thin coat finishes and clay brick slips. Whether designers are looking to create a bright, bold contemporary façade or replicate brick or stone blockwork, our extensive range of render colours and textures provide limitless opportunities allowing any design aspiration to be achieved.









# Stone Slips

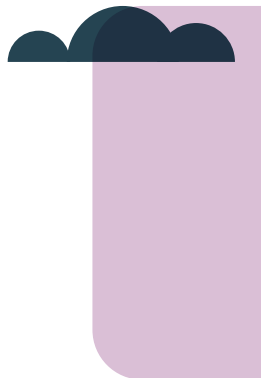
Stone is mostly linked to older rural buildings where it blends well with the natural landscape, however many projects looking to utilise stone can find it costly and difficult to install.

Wetherby's Stone Slips are an economical and cost-effective reconstructed stone wall cladding product that maintains an authentic natural stone appearance. The stone cladding slips are suitable for commercial, private and domestic properties as a full External Wall Insulation system.

The walling range is available in a variety of materials including natural quartz stone and materials manufactured principally from naturally occurring aggregates, ordinary Portland cement and colouring pigments which is then cast in moulds.

Available in various popular stone finishes, the cladding slips are manufactured in a slim format, which makes them versatile for creating features on a facade. They can be an ideal choice for new housing developments looking to create an authentic stone façade or simply maximising space from consented planning.

- Offer a professional, real stone finish.
- Thickness varying from normally 20mm at the edges to 30-35mm in centre depending on relief for a true natural stone effect.
- Offer faster application compared to traditional methods.
- Eliminates the manual handling and associated issues of traditional stone and brick materials.







# Modern Methods of Construction



## ICF

Insulating Concrete Form (ICF) systems are becoming more widely used for construction projects due to the quick assembly time, combined with the high strength structure that is achieved.

ICF systems are produced from large hollow lightweight blocks, typically manufactured from high density expanded polystyrene (EPS) that interlock to form the walls. Concrete is then poured into the hollow chambers of the blocks and, once set; it forms a high strength rigid structure wall system.

The formwork permanently remains in place as the thermal insulant, enabling exceptional u-values to be achieved. Our wide range of finishes are ideal to be applied directly to the formwork, significantly reducing installation time and costs.



## SIPS

Structural Insulated Panel Systems (SIPS) are broadly used as a viable alternative to traditional building methods. Pre-cut panels can be quickly erected on site enclosing the structure, allowing internal works to start much quicker.

SIPS building systems consist of a high performance insulating foam core, which has sheathing boards (usually Oriented Strand Boards) fixed to both sides to produce a strong, energy efficient and cost effective solution.

SIPS construction can also add insulation boards, to upgrade the thermal performance or use a render carrier board, with our wide range of finishes, textures and colours offering a professional, seamless finish.



## Lightweight Panel Systems (Aerated Concrete)

Aerated concrete units are a light and structurally strong building material, making them a popular construction method, as they enable easy assembly of solid, airtight walls.

The properties of aerated concrete make it very suitable for complete builds, or alternatively, it can be used simply for the extension or alteration of existing structures.

Aerated concrete can provide an ideal surface to directly apply Wetherby renders and clay brick slip systems, however, due to its low thermal properties we would recommend a Wetherby insulated render system to be installed to ensure thermal efficiency is maximised and U-values are reduced in line with current building regulations.



## Wood-Cement Blocks

Wood-Cement Blocks systems are interlocking modular walling units, that are dry stacked, without the need for a bed or mortar. The user-friendly system means there is no requirement for brick layers and the build can be achieved by a less-skilled labour force.

The raw finish of Wood-Cement Blocks provides an excellent key for the wide range of Wetherby renders and clay brick slips. However, further insulation can be fixed to these blocks, upgrading the thermal performance and providing the ideal substrate for our range of external finishes.



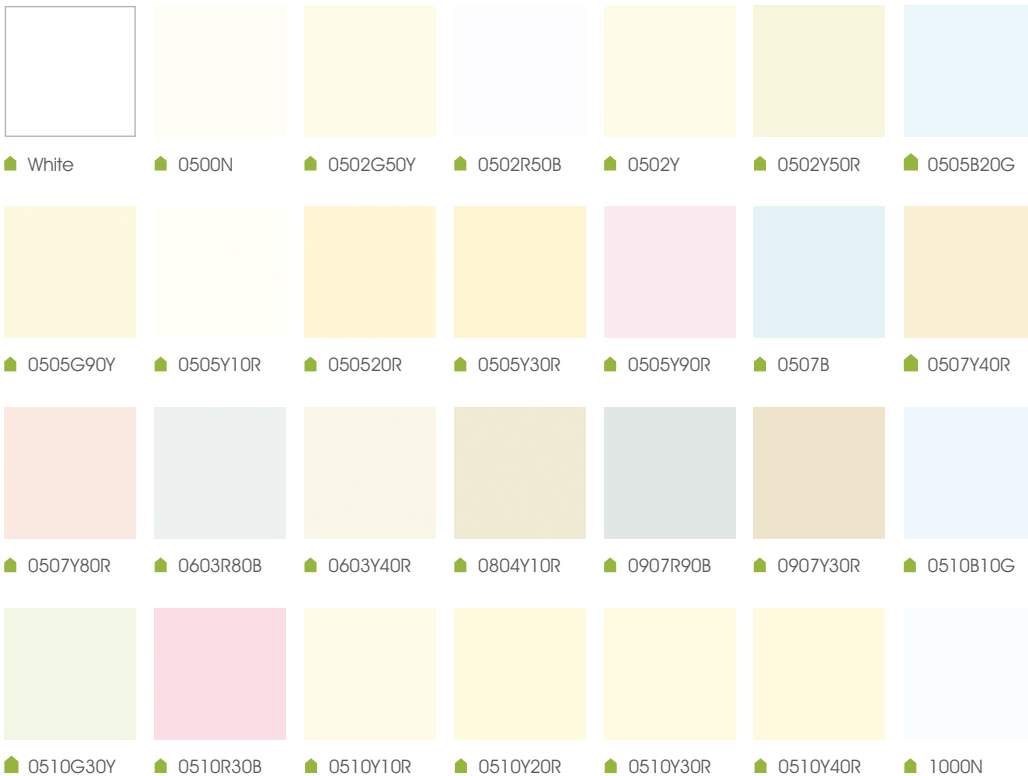


# Finish Options

## THIN COAT

We have a comprehensive range of silicone, acrylic and mineral renders with more than 360 different shades available including a variety of textures.

For our full range please refer to our Thin Coat Systems brochure or alternatively visit our website [wbs-ltd.co.uk](http://wbs-ltd.co.uk)

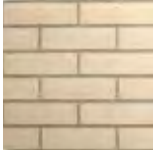


\*Images of colours have been reproduced as accurately as possible but as this is a real clay product there is a slight natural variation in colour with each system. We always recommend physical samples are ordered prior to purchasing any materials.

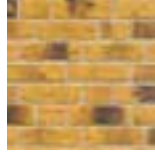
## BRICK SLIPS

Available in more than 60 different colour finishes, with complementing shades of pointing mortar, our clay brick slips can meet any design aspiration.

Our full range of 9mm and 15mm brick slips can be found in our Clay Brick Slips brochure or alternatively visit our website [wbs-ltd.co.uk](http://wbs-ltd.co.uk)



100 White Smooth



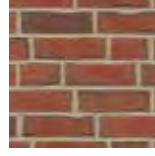
297 London Multi Buff Textured



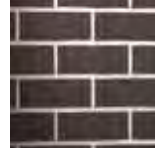
335 Tivoli



688 Buff Multi Stock



689 Light Red Multi Stock



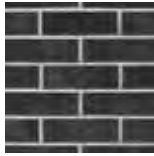
700 Cannon Blue



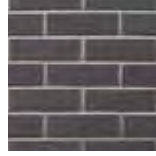
752 Red Multi Waterstruck



63410 Merida Red Plain



63413g Merida Grey



63413sb Staffordshire Blue



7421rs Anoreta



7429hl Laguna

## COMPLIMENTARY POINTING MORTARS



Black



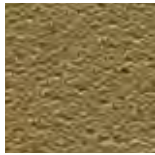
Buff



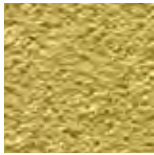
Dark Brown



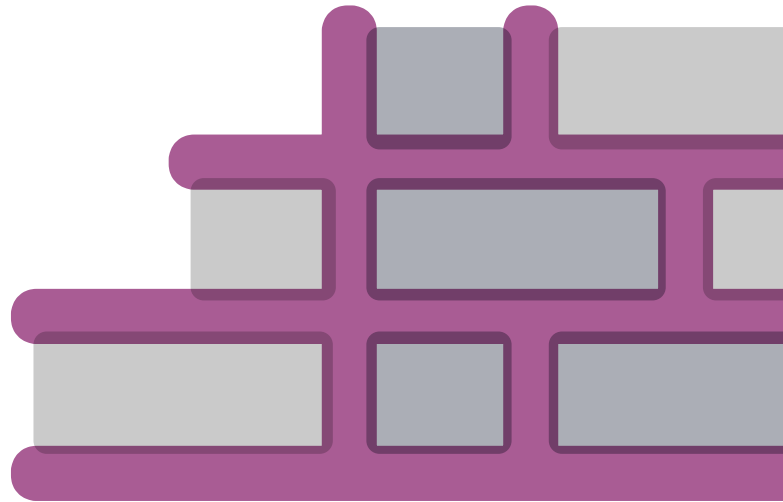
Dark Grey



Natural

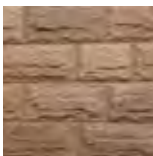


Sandstone

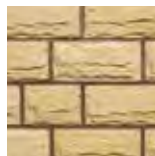


## STONE SLIPS

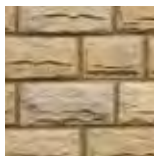
Wetherby Stone Slips are available in a range of finish and colour options to give an authentic natural stone appearance.



Brecon



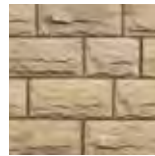
Buff



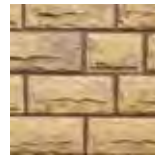
Limestone Buff



Pennine



Southwold



Keinton



Ochre



White

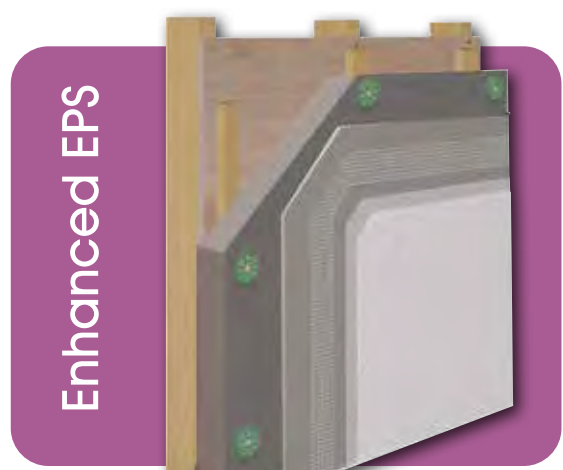
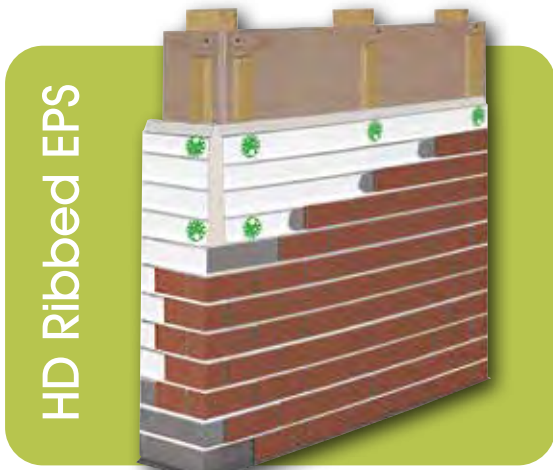


Charcoal

Please note lead times and minimum order quantities may vary, please contact your sales representative for more information.



# Insulants & Systems

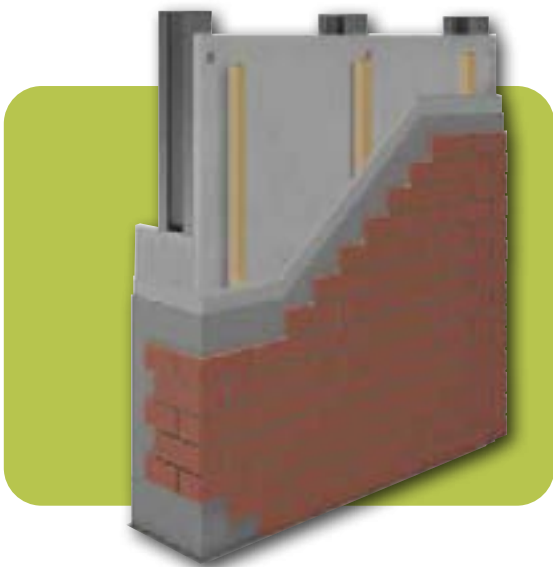
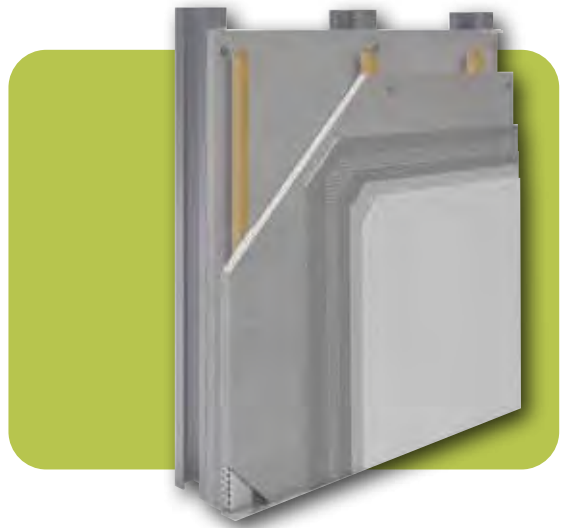
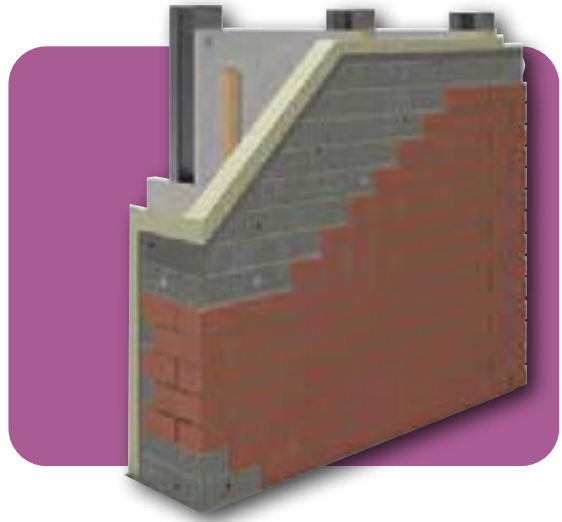
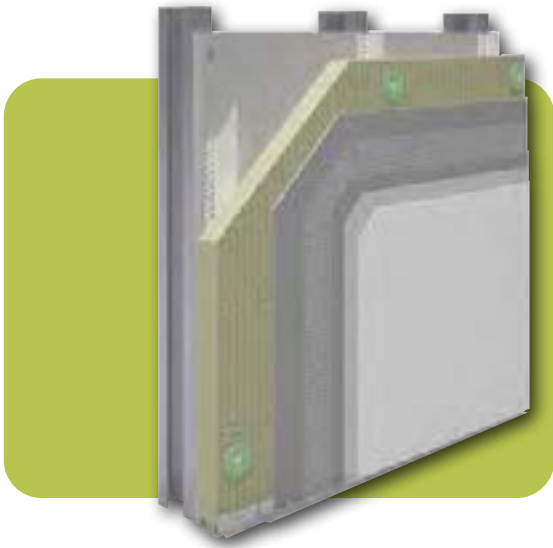


Thermal Performance and U values

Insulation	Thickness (mm)	K Value
Enhanced EPS	20-400mm+	0.032 W/mK
HD Ribbed EPS (High Density)	20-400mm+	0.036 W/mK
Stone Wool	30-270mm+	0.036 W/mK

More detailed information on our insulation materials can be found on our website at [wbs-ltd.co.uk](http://wbs-ltd.co.uk)





# Approvals & Certifications

Wetherby are at the forefront for testing and approving systems for Modular Construction and have been tested to BBA / BDA standards with full NHBC and Premier Approval.



Wetherby Building Systems Ltd are certified with a fully integrated ISO management system for Quality Standard ISO 9001, Environmental Standard ISO 14001, and Health & Safety Standard ISO 45001 (Certificate No. 16512)



Full members of the National Insulation Association



INCA System Designer



KIWA BDA Accredited System



BBA Accredited System



BOPAS Accredited System







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