



# Reduce Risk. Eliminate Complexity.

SLIPFAST® Mechanical Brick Slip System

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# SLIPFAST®

MECHANICAL BRICK SLIP

SLIPFAST® offers the timeless beauty of fired clay brick, while its innovative design means it is rapid to install, and durable enough to stand the test of time.

SLIPFAST® has been designed with both new build and recladding applications in mind and is suitable for high-rise and low-rise construction.

## Engineered to perform

An A fire-rated, mechanically-fixed clay brick slip system, designed for modern methods of construction. SLIPFAST® provides a high performance façade and enhances a building's overall energy efficiency.

## Designed to last

With its stainless steel core mechanical components, SLIPFAST® has a certified system life of in excess of 60 years. It has been tested in extremis and is suitable for coastal environments, without modification. And, despite its high level of impact resistance, its weight is lower than most rival systems.



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# Trust built on innovation and quality

Our success has been built on decades of rigorous testing, technical know-how and innovation. But we are never satisfied. We will always strive for safer, more cost-effective, sustainable façade solutions. This continuous evolution allows us to ensure we can offer the best systems on the market.

## Certifications and more...

Our products and systems are backed by one of the strongest portfolios of certifications and accreditations in the façades industry. In addition to BBA and KIWA BDA Agréments, some of our systems are also accredited by BOPAS and NHBC. With these accolades, you can be sure that our façade systems have been independently verified and they are fit for purpose.

## Inspired Thinking...

When we develop a new system, we start by understanding the needs and objectives of all stakeholders - most importantly our customers. We then create concepts and prototypes drawing on expertise from right across our business. We leave no stone unturned in the pursuit of the best possible solutions. We also work with our supply partners to make sure we have the benefit of their latest component innovations. Through our collaborative approach, we help you to create outstanding buildings with stunning façades.

## Sum of the parts...

A system is only as good as its constituent parts. We source the best components from our extensive global supply chain, only selecting proven materials from resilient suppliers. Independent factory audits ensure that appropriate quality standards are met consistently. Because we focus on each component as well as the overall result, you can be sure that our systems are the sum of the best possible parts. Where possible UK manufacturing and lower carbon footprint focus very highly in our selection process.

## Testing, testing...

Rigorous testing lies at the heart of our product development process. By independently testing our products and systems, we can be sure that they meet the highest standards of safety and durability. We pay particular attention to fire safety and many of our products and systems are A1-rated (non-combustible).

Working with leading independent test houses, we also test for strength and stability, thermal insulation, resistance to moisture and durability.



# Specification Simplified

Our 'whole system' philosophy focus helps to remove uncertainty and complexity from your specification process

## A pioneering approach

As a longstanding leader in external wall insulation systems we have been testing and certifying complete systems for decades. We are among the first to have adopted the same holistic approach for rainscreen cladding systems.

## Safety first

We are acutely aware of the crucial place of safety in the specification decision. That's why our façade systems are fully tested and certified where possible as 'through-wall' solutions. This approach confirms that the individually tested components offer the required safety performance in a system configuration.

Due to competing testing standards, cavity barriers are not currently included in through wall system certifications. However, we are in active discussions with test houses and agreement bodies to define a holistic approach.

## We make it easier

We fully appreciate the challenges of creating specifications in today's world. You need to know that the elements of a complex system work together to create a safe and effective solution. When you specify one of our certified façade systems you can rest assured that we have done the hard work for you by testing and certifying the complete solution.

## It's your choice

Our range of certified façade systems has been developed to meet the needs of different construction types for new build, retrofit or recladding applications. Most are suitable for both offsite and traditional site based installation processes. Our range of colours and finishes offers complete design flexibility, whatever the building type and whatever the setting.

# With you every step of the way

Our collaborative approach is designed around you

## The earlier the better

Engaging at the planning stage, we work closely with your team to ensure you get the right solution for your project. Our technical specialists will make sure you have the information and guidance you need to create outstanding façade systems.

## Clear and often

Our team members will interface with yours to ensure the right people are talking to each other at the right times. In addition, our unique Customer Portal helps to track documents and workflows throughout the process, creating a permanent record of information exchanged and key approvals and decisions.

## Tailored to your needs

Through our bespoke fabrication and coating service, we can provide products and systems to your exact

requirements. Operating from a dedicated facility in Staffordshire, our fabrications team can cut, groove, drill and coat products to your particular specification. We can also deliver in a variety of formats to suit your needs.

## Scheduled visits

For larger projects, we offer a scheduled programme of site or factory visits to inspect the installation, providing expert insight into the façade application. We also offer installation training to ensure factory personnel and site installers are familiar with our systems.

## Solving problems

As we all know from experience, despite best efforts, things can occasionally go wrong. Our technical specialists are available to assist with any ad-hoc issues that may arise, and can be with you quickly to ensure the minimum loss of valuable build time.



# SLIPFAST®

## Mechanical brick slip system



### System Overview



## System Benefits

### Safety and Performance

- A1 and A2 fire-rated options available
- CWCT and KIWA certified
- Mechanical (non-adhesive) system with excellent wind loading performance

### Cost and Speed of Installation

- Innovative 'rail and clip' system has lower material content than competing products
- Faster to install than many rival systems, reducing labour cost
- Minimal skill level required for slip application
- Brick slip application not weather dependent
- Light weight improves handling efficiency

### Durability

- Certified system life of in excess of 60 years
- Core mechanical components stainless steel as standard
- High level of impact resistance
- Suitable for coastal environments without modification

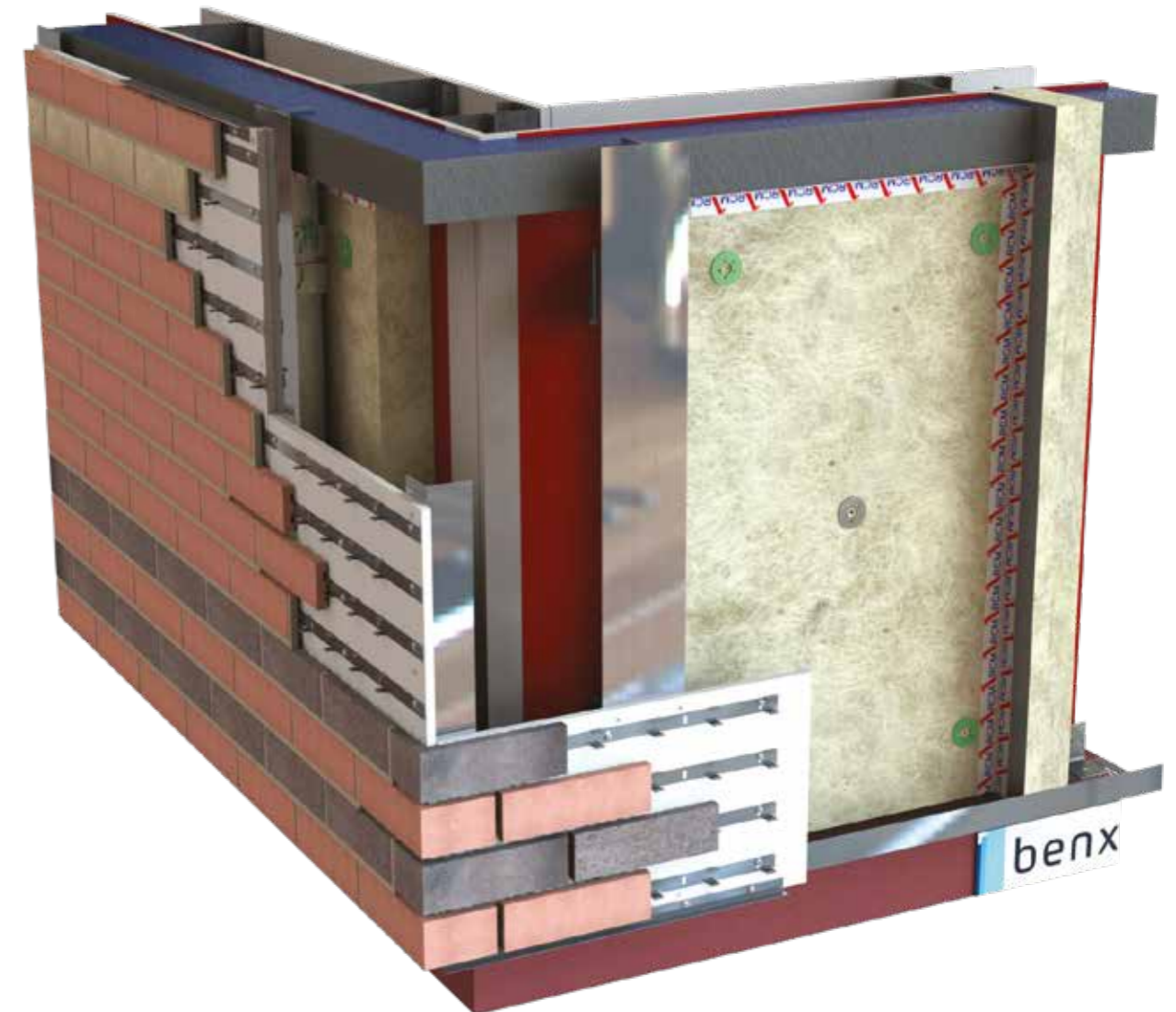
### Versatility

- Suitable for both onsite and offsite applications
- Allows different support frames
- Easily manipulated for detailing.
- Multiple panel sizes available

### Carbon Footprint

- Overall weight lower than most competing systems
- Majority of key components UK manufactured including brick slips
- Slip-firing process minimises embodied carbon.

SLIPFAST® incorporates an innovative 'rail-and-clip' system which delivers a step change in installation efficiency without compromising performance or aesthetics.



### Certified as complete systems

SLIPFAST® façade systems are tested to A1 and A2 fire resistance standards. The systems' carefully selected components have been rigorously tested, both individually and as entire systems, making SLIPFAST® among the few Agrément certified systems of their type. Our rigorous testing and certification process ensures long-term performance and lasting appeal.

## SLIPFAST® Design Options

SLIPFAST® systems provide clients with one of the most flexible approaches to system build-up on timber or metal framed structures. In addition, SLIPFAST® systems can be fixed in several ways back to the primary structure.

Sub-frame options include:

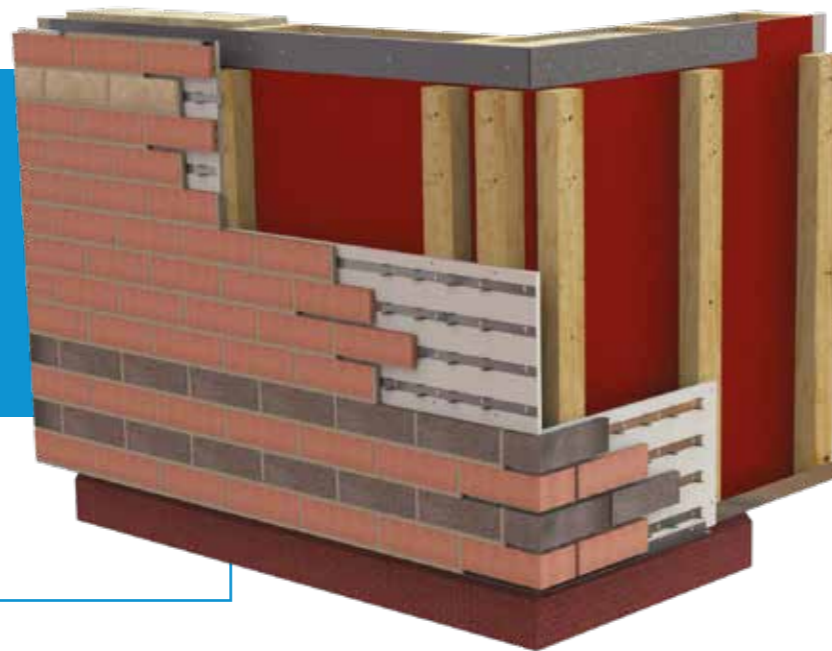
- Timber battens
- Galvanised steel top-hat profiles
- Allface aluminium support frame



### System 1 Timber battens or galvanised steel top- hat profiles

Our flexible design means that not all timber battens are required to be fixed back to the primary structure.

A2 Fire rated -  
suitable for buildings  
up to 18 metres.



SLIPFAST® System 1 can be fixed through to the primary studs at no greater than 600mm centres, but also offers the option for the battens or top hat to be fixed back to a suitable Benx sheathing board if stud locations do not align to the panel sizes.

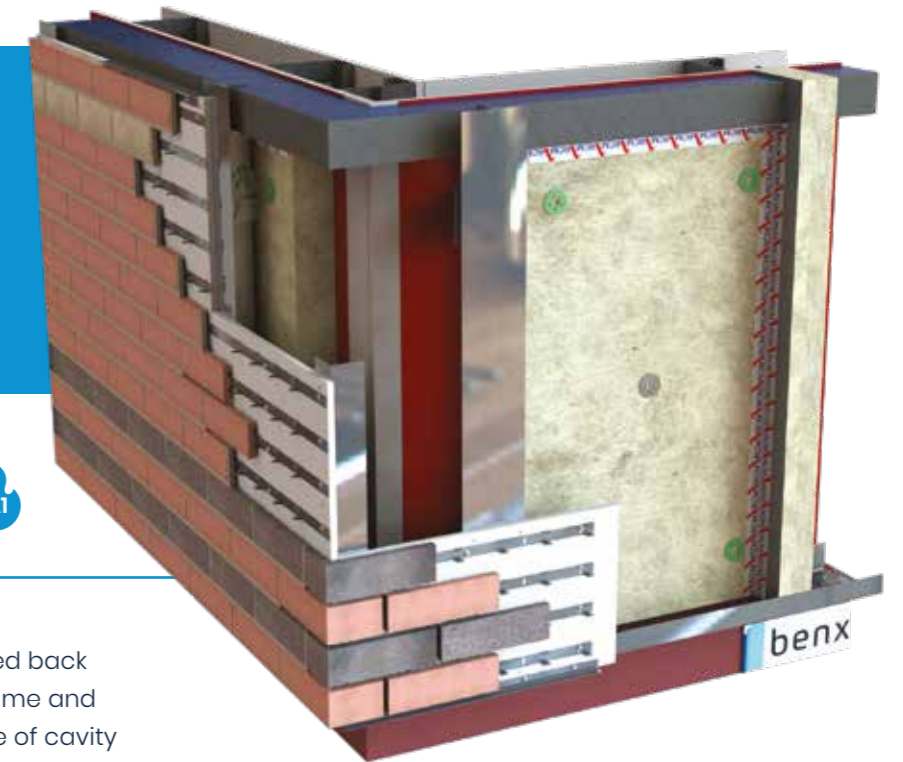
This flexible approach allows the specifier or contractor to avoid having additional primary studs to support the SLIPFAST® system if not required for the main structure.

- Pre-coated panels are available in a range of sizes with stainless steel mechanical rails and clips pre-attached.
- Panels are 'square-edged' and do not require interlocking.
- All rails, clips and fixings are stainless steel for maximum durability
- Rails and clips can be adjusted on site to allow correction of alignment and adjustment, if necessary.
- Panel lengths available in either 600mm or brick size variations. Panel heights align to brick courses.

### System 2 Allface aluminium support frame

Allface support frame fixed back to primary studs at maximum 600 mm centres.

A1 Fire rated - suitable  
for buildings up to  
and over 18 metres.



- SLIPFAST® System 2 is fixed back to our Allface support frame and offers an extensive range of cavity depth options.
- Pre-coated panels are available in a range of sizes with stainless steel mechanical rails and clips pre-attached.
- Panels are 'square-edged' and do not require interlocking.
- All rails, clips and fixings are stainless steel for maximum durability
- Rails and clips can be adjusted on site to allow correction of alignment and adaptability, if needed.
- Panel sizes are available in a range of options, however the Allface support frame is always fixed back through to the primary studs.



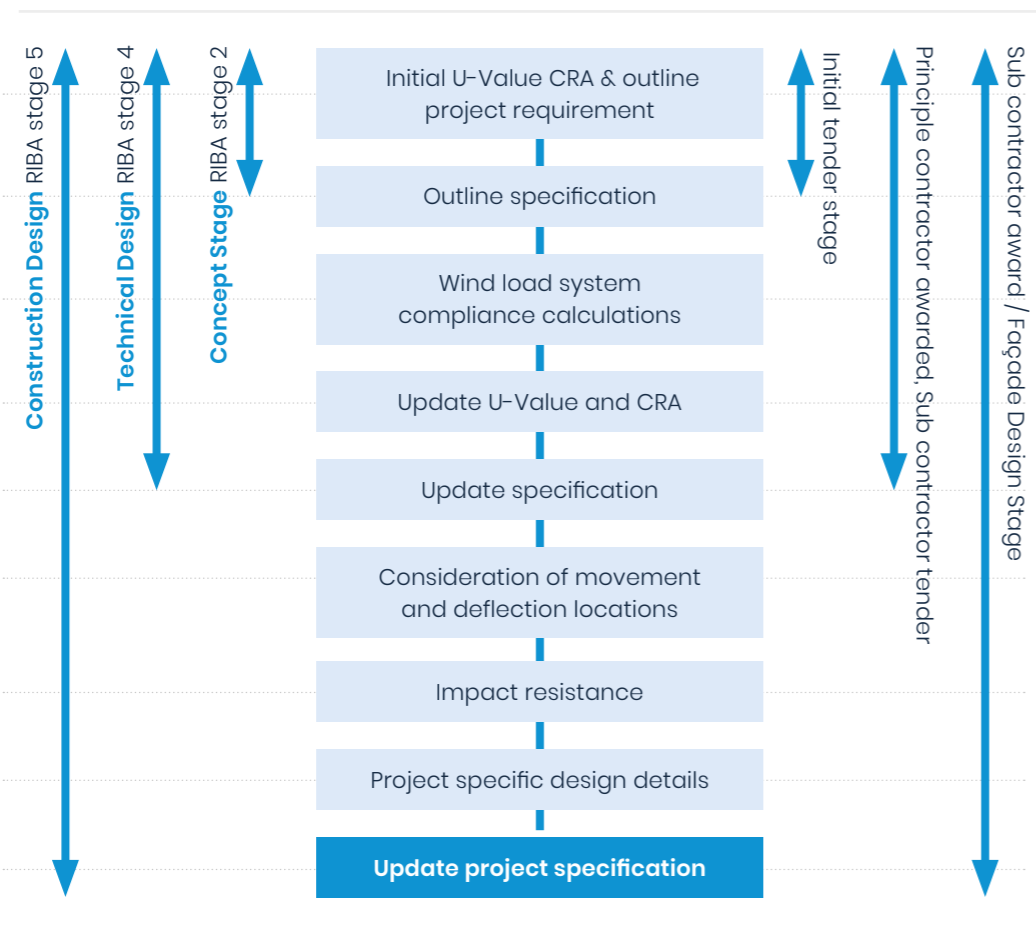
## SLIPFAST® Design Considerations

The following key design elements must be considered with specifying SLIPFAST® mechanical clay slip systems for external walls.

- U-Value & condensation risk calculations
- Wind loading calculations
- Fire classifications (subject to height, project requirements)
- Structural movement and system deadloads
- Detailing at intersections with other cladding materials & building openings
- Brick features and detailing on the external façade

The flow chart below should be used as a guide to ensure the main tasks involved in producing a full project design package are targeted at the correct stage of each contract.

Benx Technical Services can support with data to guide through the process.



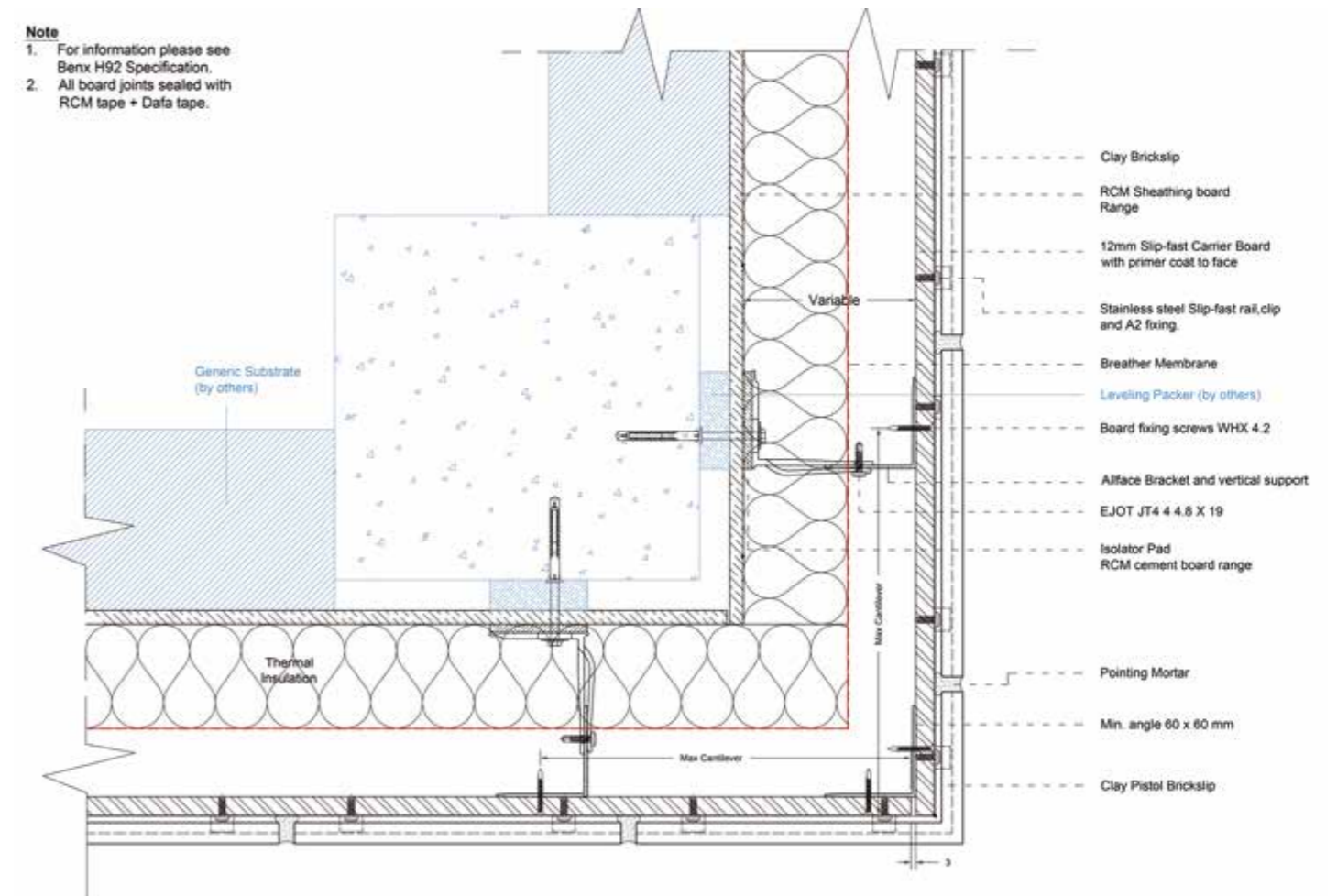
## NBS specifications - H92 rainscreen cladding

Our technical experts can support with the design and development of a project specification in line with **NBS Section H92 specification clauses for rain screen cladding**, including the following:

- Sheathing boards and fixing to structure
- Airtight solutions
- Breather membranes and EDPM locations
- Rainscreen insulation
- Cavity barriers
- Support frame
- Carrier board
- System integrity, robustness & durability
- Tolerances and workmanship onsite
- Façade clay slips range and finishes



We can assist with project specification by producing CAD details to support relevant design detailing.





## Installing SLIPFAST® couldn't be easier

The installation of our prefabricated SLIPFAST® systems is much easier and less dependent on weather conditions than either traditional brickwork or adhesive-based brick slip systems, which substantially shortens installation times and overall cost.

Installation of SLIPFAST® real brick façade is achieved in four simple steps:



1. Our pre-coated panels cut to one of the standard panel sizes, with rails and clips already fixed in place are fixed back to the support frame.



2. Our pre-formed clay brick-slips are easily and quickly clipped into position along the stainless-steel rail.



3. Once positioned, SLIPFAST® can be pointed and sealed on site with no adhesive required.



4. Our full range of brickslips includes L-shaped corner slips, used on external corners to provide a seamless look and give the authentic impression of a hand laid brick wall.



Our training rig showing SLIPFAST® System 2 mounted on Allface helping hand brackets.

Please contact us if you would like to visit our training facility at Parkhouse, Newcastle Under Lyme

## Technical Overview



### System Properties

Fire performance	A1 & A 2 Options
Design Life	Certified system durability life of in excess of 60 year
Watertightness performance	Applicable for any exposure zone in the UK
Design Options	Multiple sub-frame options to suite project designs

### CWCT Tested and Approved

Water Penetration (Static Pressure & Dynamic Aero Engine)	Tested up to 600 Pascals
Wind Resistance – Serviceability	2400 Pascals
Wind Resistance – Safety	3600 Pascals
Impact Resistance Retention of Performance	Category B – Class 4 Resistant to ≥ 500J equivalent impact
Impact Resistance Safety to Persons	Category B – Low risk
Dynamic wind uplift	3600 Pascals
Air Leakage – Infiltration	600 Pascals / 100 Pascals

### High Levels of Impact resistance and durability

Hard body impact test	Withstand impact loading 3 & 10 Joules – Highest Category
Soft body impact test	Withstand impact loading 400 Joules – Highest Category
Hygrothermal / Freeze Thaw testing	Lucideon Tested
Bond strength / Pull off test	Lucideon Tested
Dynamic wind uplift	Lucideon Tested – 2.4 kN/m <sup>2</sup>

#### Notes on Test standards

European Assessment Document :-  
 EAD 040287-00-0404 - Kits for External Thermal Insulation Composite Systems (ETICS) with panels as thermal insulation product and discontinuous claddings as exterior skin  
 EAD 090062-00-0404 - Kits for External Wall Claddings Mechanically Fixed  
 \* Subject to a project wind load evaluation  
 CWCT Standard Test Methods for Building Envelopes 2005 (Incorporating CWCT Technical Note No 75 & 76)  
 BS EN 13501-1 Fire classification of construction products and building elements



Our training rig showing SLIPFAST® System 1 mounted on timber battens.

Please contact us if you would like to visit our training facility at Parkhouse, Newcastle Under Lyme

## SLIPFAST® clay fired slips

SLIPFAST® brick slips are more precise, lighter and thinner than other moulded brick slips, while still retaining the timeless quality of a clay product. We have a large range of brick slip colours available which are in keeping with those traditionally found in the UK. Our brick slips are manufactured to BS EN 771-1 using traditional British firing methods using locally-sourced clays.

SLIPFAST® bricks are purpose-made clay slips, manufactured on dedicated extrusion machines. The slips have an average 70% less embodied carbon than single faced cut slips. Furthermore there is virtually no waste in their manufacture as nearly all process waste is re-used during manufacture. Additionally, there is less water consumption per slip, due to the product's thin profile compared with cut slips.

To ensure consistency, we have the flexibility to control recipes, texturing rollers, firing temperatures and kiln conditions.



Anthracite Black



Apedale Smooth



Avon Red Sanded



Belton Buff Dark



Chester Blend



Hampshire Red



Himley Blue Smooth



Light Brown Antique



Newbury Red



Russet Rigstone

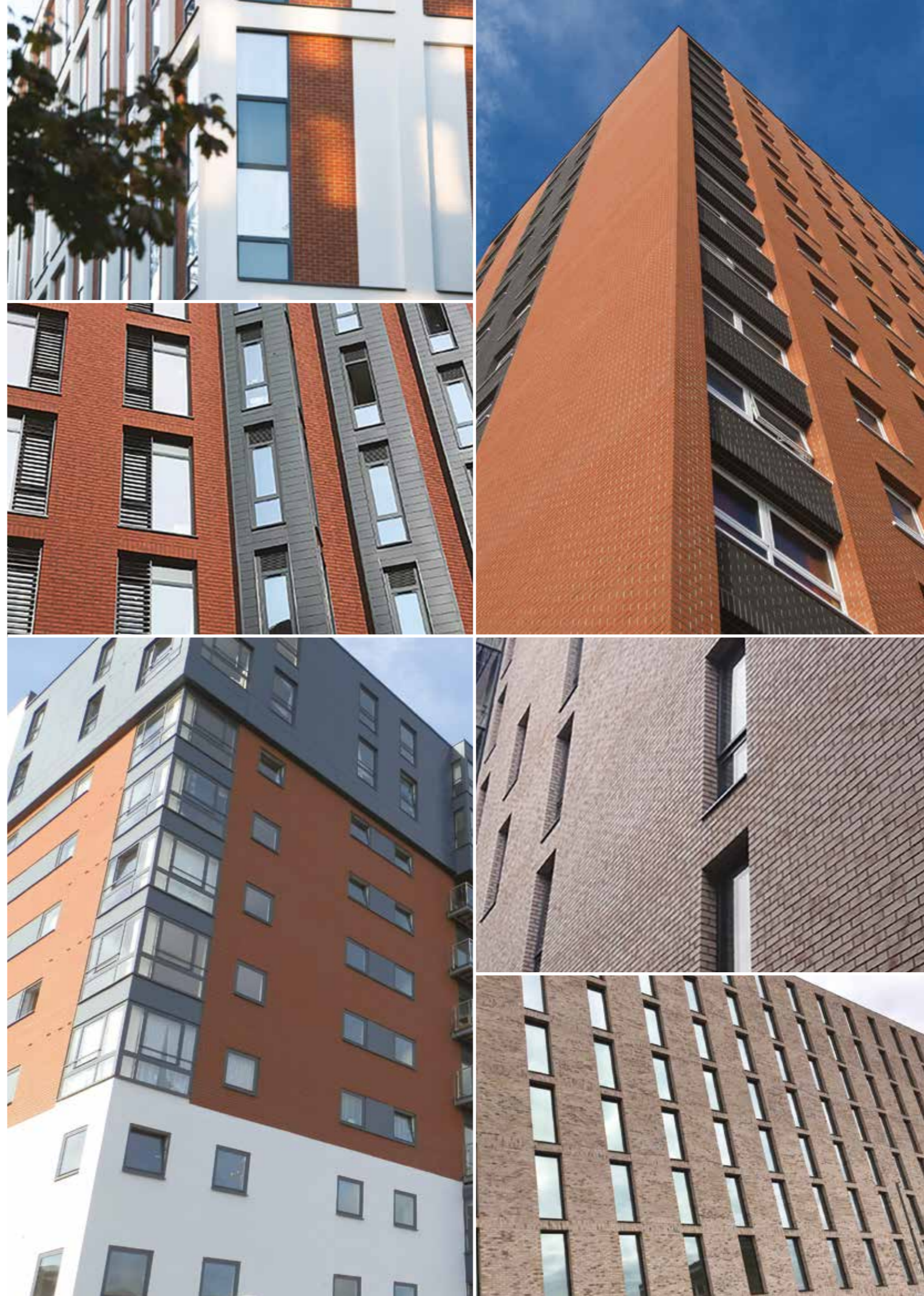


Warnham Red Sanded



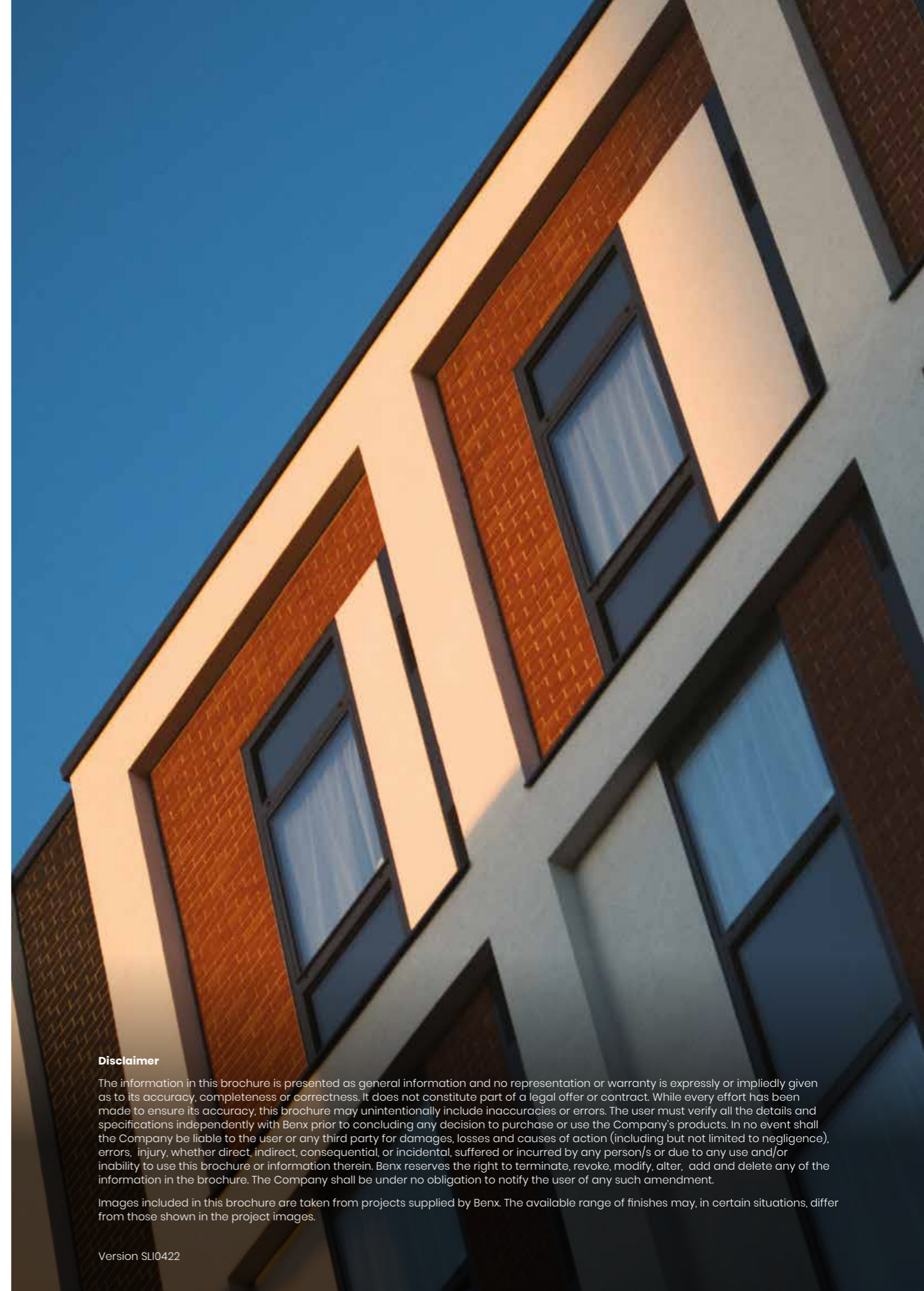
White Engobe

Note: This is a selection of the available range - please contact us for more information.



# The Benx portfolio at a glance

Category	Product/ System	Description	Fire Classification	Certification, approvals, testing
Boards	Multipurpose	Highly versatile cellulose fibre-cement building board, offering excellent strength, weathering and acoustic properties.	A1	BBA
	DensGlass	High performance sheathing board that consists of a fibreglass mat with a gypsum core which is both lightweight and easy to cut to shape.	A1	BBA
	Y-Wall	High-quality flexible calciumsilicate cement-based building board. Offers excellent fire properties as well as high levels of dimensional stability.	A1	BBA
	Cemboard	Rigid, mediumdensity, high-performance cement bonded particle building board which offers great strength and stability with the workability of wood.	B-s1, d0	
Support Framing	Z-profile; Top Hat section; Allface support frame	Z-profile: Low-to-mid rise buildings; cavity depth 38mm or 50mm Top Hat section: Low-to-mid rise buildings; horizontal or vertical; cavity depth 25mm Allface: Mid-to-high rise buildings; cavity depth 50mm-300mm +.	A1	Allface - KIWA BDA
Façade Systems	RendaClad system	A seamless rendered or brick slip rainscreen system on to LSF or timber framed structures.	System - A2	BBA, BOPAS, CWCT tested slips and render
	Cavity System 1 & 2	Typically used on lightweight steel framed structures to create a void between the cladding and the sheathed framed structure. Available in a render (Mineral or acrylic) or brick slip finish.	Primary cavity components. System - A1 and A2 options	KIWA BDA, CWCT tested slips
	Supertech Weatherboard system	Fully-ventilated rainscreen cladding system which has an appearance of traditional timber cladding but the durability and strength of cellulose fibre cement.	System - A1	BBA
	Swisspearl system	Through-wall certified system with Swisspearl coloured fibre cement panels.	System - A2	KIWA BDA (full through-wall certification); BBA
	Rockpanel system	Through-wall system with coloured Rockpanel basalt bonded panels.	System - A2	CWCT tested
	Luxe Coat Solid Aluminium system	Through-wall system with coloured solid aluminium panels.	System - A1	CWCT tested
	SLIPFAST® mechanically-fixed brick slip system	Rain screen system suitable for timber frame (up to 18m), SFS (up to and above 18m).	System 1 - A2 System 2 - A1	KIWA BDA CWCT tested
Direct Fix Systems	Wall System 1	External wall insulation systems specifically for framed structures	System - up to A1 dependent on components used	KIWA BDA (Pending) LSF, BBA Timber Frame, Masonary
	Wall System 2	External wall insulation systems onto masonry	System - up to A1 dependent on components used	BBA (Wall System 2 with EPS)



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