



Modern methods of construction

Modern methods of construction deserve the most modern range of products. You can trust Benx to deliver.

Delivering product solutions that not only meet the most demanding specifications of the modular industry, but also improving your manufacturing efficiency and quality. That's the Benx commitment to offsite manufacturers. Benx (SPSenvirowall and RCM) has a long track record of success as a product solution provider on many construction projects. With extensive technical expertise and solid practical experience, Benx is a highly qualified and reliable partner for all of your offsite manufacturing needs.

The Benx Difference

As a key UK cladding supplier, the Benx portfolio is continuously adapted in line with changing legislation, new material technologies and increasingly sophisticated offsite building designs. All this, of course, will assist you in the delivery of your offsite projects more efficiently, achieving the highest specification, and with Benx as your partner, you will be ready to meet the increasing demands of modern methods of construction.

We developed our offsite product portfolio to assist modular manufactures four key ways:



Reduce production time on site



Reduce complexity



Reduce cost



Ensure it is safe and durable

Modular products designed with MMC in mind.

Our Core Competences for Offsite Construction

The Benx portfolio includes a range of products which have been specifically designed for use in modern methods of construction. Starting with our range of building boards, we offer a targeted selection of products including the multiple elements required to build out to the façade of your choice, be it rainscreen cladding or external wall insulation and the many finishes that accompany it.

Building boards for offsite construction

Like all boards our products can be used in the construction of your building's walls, floors and ceilings. However, our products offer a range of key benefits when used as part of an offsite project:

Transportable: Our cement based building boards are prized for their workability qualities. These can be installed in your factory and are designed to tolerate better the rigours of transportation to site and hoisting on site with reduced risk of deforming or cracking.

Fire Resistant: Our boards (product and thickness specific) are ideal for use in fire rated floors ceilings and walls. Our range includes A1 or B Fire classified options to BS EN 13501, with some tested solutions available to achieve 60 /90 or 120 minute wall testing to BS EN 1364 or BS EN 1365 inside to out or outside to in.

Acoustically Sound: Due to their composition, our boards offer high levels of sound insulation, the effect of which is enhanced when the boards are incorporated as a “wrap-around solution” in the construction of walls, ceilings and floors.

Long Life: Many of our products have a minimum 30 year lifespan.



Building boards for offsite construction

Building a façade for offsite projects

Our boards offer significant protection and stability to the structure, but we believe that it is the façade that converts a structure into a recognisable building with its own character and purpose. Benx offers one of the UK's widest range of façade solutions and all the elements that are required to build out from the sheathing board.

Multipurpose™

A1 non-combustible BBA classification Multipurpose offers the highest level of fire rated performance, available in an extensive range of thicknesses, making ideally suited for multiple application such as wall, ceilings, floors and soffits.



DensGlass® Sheathing

DensGlass Sheathing is an A1 Non-Combustible high performance sheathing board that consists of a fibreglass mat with a gypsum core, providing a lighter sheathing board solution with the ability to scribe and snap the board.



Ywall™

A1 non-combustible, BBA certified fibre cement building board. Offering excellent fire properties as well as high levels of dimensional stability, Y-wall is an exceptional board for use in multiple applications.



CEMBOARD

Cemboard is a B fire rated rigid, medium density, high-performance cement bonded particle building board which offers great strength and stability with the workability of wood. Available in a wide range of thicknesses for multiple applications



Building a façade for offsite projects

The Subframe

Benx offer a range of engineered sub-frame solutions to ensure that the façade can be carried past the sheathed structure. Those supplied by Benx are A1 fire rated (ie not timber) to assist with the fire safety of the building. They form a universal platform upon which our broad range of façades can be fixed. These products can either be factory fitted and transported to site or fixed on site.

Aluminium Z Profile - Cavity depth 38mm or 50mm, this is typically used for low to medium rise offsite applications and can be fixed back to both masonry and framed buildings.

Top Hat Section -Cavity depth 25mm, similar to a Z profile, however can be used in both vertical or horizontal applications depending on cladding type and is typically used for low to mid rise offsite structures

Allface Support Frame -Cavity depth 50mm-300mm. This is typically used on medium to high rise applications where the cavity depth needs to vary and can be fixed back onto either masonry or framed buildings.



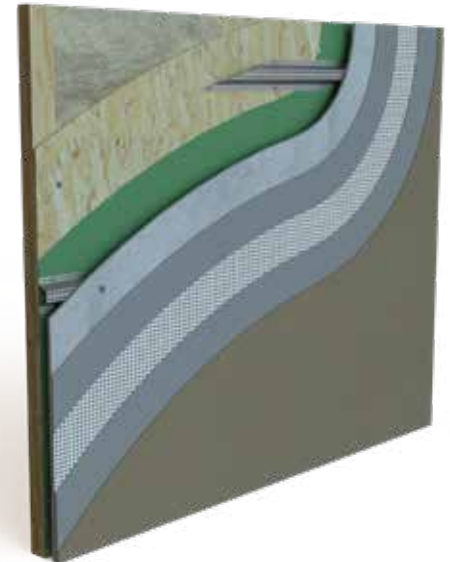
RendaClad, our A2 limited combustibility external wall render or brickslip system

RendaClad  

The RendaClad system offers a highly versatile, A2-s1,d0 solution. Suitable for both low-rise and high-rise buildings, RendaClad can be used on LSF and timber frame construction. The primary components of this system - the render carrier board or renders/brick slips - in which products we have decades of experience, are produced to our own formulation or standards, ensuring compatibility with each element.



- Fast method of construction
- Lightweight
- Extensive accreditation:
 - BBA
 - BOPAS
- Weather resistant and durable
- Extensive range of finishes
- Cost effective
- Multiple fixing options on timber or metal stud or Allface support frame
- Render, dash & brick options



RendaClad: A selection of finishes and colours

SpeedySlip

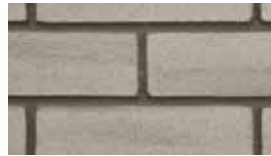
SpeedySlip comes in a standard range of colours as well as a colour matching service, although this service is dependant on project size and takes slightly longer to facilitate.



Thames Yellow



Surrey Autumn Red



Staffordshire Blue



London Sanded Cream



London Multi Stock



Kent Yellow



Charnwood Forest Grey



Charnwood Forest Buff



Suffolk Red Stock



South Downs Multi Stock



East Midlans Stock



Grey Mix

Mineral Top Coat

Whether you are looking for a traditional look or a contemporary finish please get in touch - we have the expertise to guide and inspire you in choosing the right colour for your project. This is just a small part of our full colour range.



Antique White



African Ivory



Cornish Cream



Dawn & Dusk



Fired Copper



Tudor Rose



Earth Taupe



Mountain Grey



Platinum Metal



Mint Green



Luckworth Blue



Blue Sky



Oyster Lilly



Orchard Pink

Cavity System: A1 & A2 external wall insulation options available

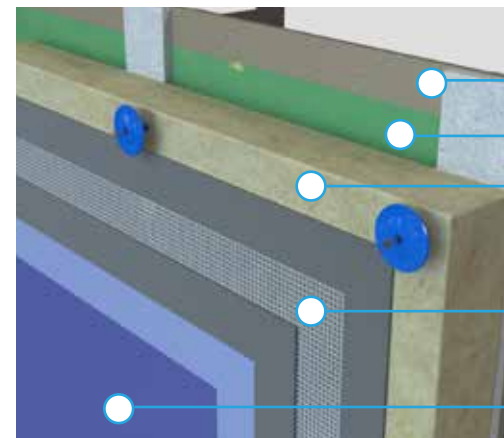


EWI - Cavity Systems



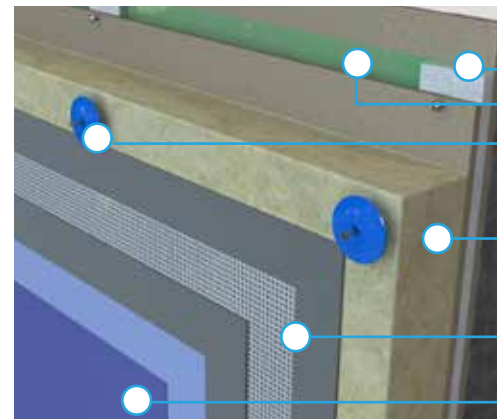
This modern method of construction, also referred to as ETIC's, has proven extremely popular over recent years and is now the preferred cladding method for mid-to-high rise structures. Our market-leading Cavity Systems consist of Euroclass BS EN 13501 - A1 components, which are mechanically fixed back to the inner sheathing board to create the designed cavity width with either the insulation board fitted directly to the A1 fillets (CS1 system), or a secondary A1 sheathing board and insulation (CS2 system). Our A1 EWI cladding systems are supplied with a mineral top coat finish.

As well as the main systems, Benx Ltd also detail, specify and supply key ancillary products that are required to allow the systems to comply with legislation, such as: intumescent cavity barriers.



Cavity System 1

- Minimum 15mm cavity using SPSEnvirowall Cavity System A1 fillets
- Breather Membrane
- Mineral Wool Insulation
- Base coat incorporating plastic glass fibre reinforcing mesh
- Mineral top coat finish



Cavity System 2

- Minimum 15mm cavity using SPSEnvirowall Cavity System A1 fillets
- Breather Membrane
- Fixing type and fixings centres to be project specific
- Mineral Wool Insulation mechanically fixed to CS2 sheathing board
- Base coat incorporating plastic glass fibre reinforcing mesh
- Mineral top coat finish

Cavity System: A selection of finishes

Whether you are looking for a traditional look or a contemporary finish please get in touch - we have the expertise to guide and inspire you in choosing the right colour for your project. This is just a small part of our full colour range.



Antique White



African Ivory



Cornish Cream



Dawn & Dusk



Fired Copper



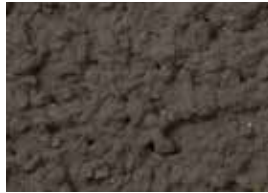
Tudor Rose



Earth Taupe



Mountain Grey



Platinum Metal



Mint Green



Luckworth Blue



Blue Sky



Oyster Lilly



Orchard Pink



Sand Dune



Sea Mist



Portland Stone



Travertine Stone



Wild Silk



Wild Straw



Willow Beach

Colour Accuracy

Colour swatches have been reproduced as accurately as possible, however there may be some variations due to technical, colour reproduction and render manufacture reasons. If you require an accurate swatch, please ensure you ask us for a sample of the product and colour chosen prior to commencing any works.

Supertech Weatherboard: A1 non-combustible rainscreen cladding solutions



An A1, simple to install, fully ventilated rainscreen cladding system which has an appearance similar to that of traditional timber cladding but the durability and strength of cellulose fibre cement. With our state-of-the-art in-house coating facility we can bespoke this material to your specific offsite project.

- Fire rated to EN 13501-1 class A1
- State of art, in-house UK coating line
- High levels of weather resistance
- Easy to install and lightweight
- Resistant to rot, fungus or insect attacks
- Colour matching service
- Low maintenance, long performance life
- Integrates with other Benx products
- BBA Accredited

Supertech Weatherboard: A selection of finishes and colours

The Supertech colour range has been developed for you to create great building designs. This premium weatherboard is supplied directly from our in-house state of the art coating facility, pre-finished in an array of durable, fade resistant finishes ideal for both traditional and contemporary designs. We also offer a colour matching service based on project size and minimum orders.



Traffic White
RCM/WP01/S



Light Grey
RCM/WP02/S



Oyster White
RCM/WP03/S



Iron Grey
RCM/WP08/S



Dark Grey
RCM/WP09/S



Khaki Brown
RCM/WP10/S



Light Ivory
RCM/WP04/S



Pastel Turquoise
RCM/WP06/S



Jet Black
RCM/WP07/S



Sand Yellow
RCM/WP14/S



Red
RCM/WP15/S



Pine Green
RCM/WP16/S



Dark Brown
RCM/WP11/S



Lavender Blue
RCM/WP12/S



Lilac Blue
RCM/WP13/S



Blue Grey
RCM/WP17/S



Grey Brown
RCM/WP18/S



Grey Green
RCM/WP20/S

Colour Accuracy

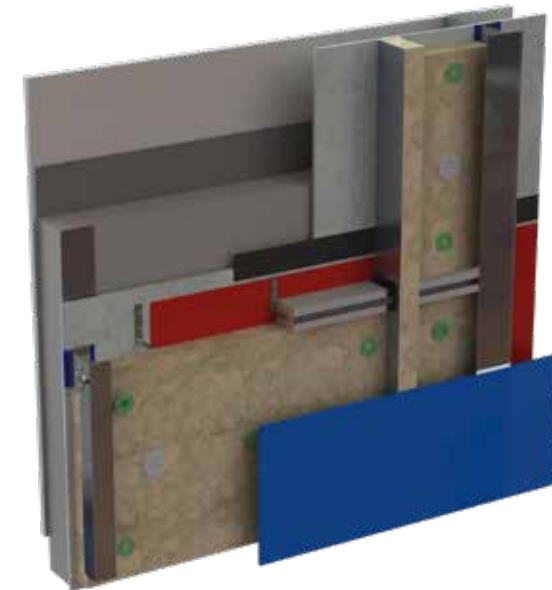
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Swisspearl Facades: A2 limited combustibility rainscreen cladding solution



KIWA and BBA approved, Swisspearl coloured fibre cement panels give façades what they need: a face, individuality, character, texture, colour and, very importantly, a highly effective protective layer. The range consists of six different style ranges, with the majority integrally coloured.

- Fire classified to EN 13501-1 class A2-s1, d0
- High levels of weather resistance and durability
- KIWA Through Wall Agrément
- Customised colours and colour match fixings available
- Virtually maintenance free
- Suitable for buildings over 18m
- Long life expectancy
- Integrates with other Benx products



KIWA Agrément as full system from sheathing board to finished Swisspearl panel

Swisspearl Facades: A selection of finishes and colours

Swisspearl™ innovative approach includes a highly demanding production process for integrally coloured cement composite panels which are offered in a wide variety of colours.



Avera 020



Avera 030



Avera 040



Avera 050



Avera 070



Carat 7031 Coral



Carat 7033 Coral



Carat 7040 Azurite



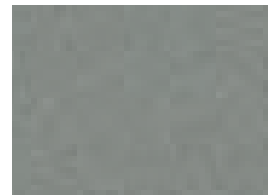
Carat 7041 Azurite



Carat 7043 Azurite



Carat 7050 Jade



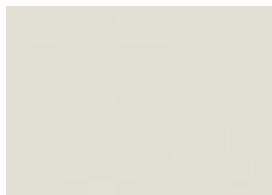
Carat 7060 Sapphire



Carat 7073 Topaz



Carat 7081 Amber



Carat 7099 Onyx



Nobilis 213



Nobilis 412



Nobilis 513



Reflex 9020 Platinum



Reflex 9221 Black Velvet



Reflex 9240 Blue Ice

Colour Accuracy

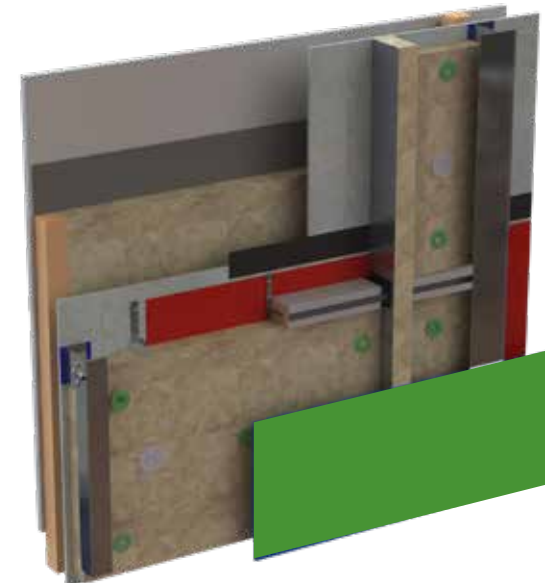
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Rockpanel Façades: A2 limited combustibility rainscreen cladding solution



Rockpanel is a leading manufacturer of sustainable, fire rated façade solutions. These A2 fire classified boards are finished with a 4 layer water-based coating to seal in the appearance and colour to provide a lasting finish. Rockpanel façades have the hardness and durability qualities of stone but provide the advantage of a material which has the workability of wood.

- Fire classified of EN 13501-1 class A2-s1, d0
- Easy to install and low maintenance
- Almost 100% recyclable
- Lightweight and easy to install
- Exceptional weather resistance
- More than 200 colours, surface finishes and patterns
- Customised solutions
- Integrates with other Benx products



Rockpanel Façades: A selection of finishes and colour

The Rockpanel façades range includes a variety of surface finishes and colours. With 11 different ranges available including Rockpanel Colours, Rockpanel Metallics, Rockpanel Chameleon and Rockpanel Woods. The solid colours, woods and metallics are the most popular ranges used and we have included them below, however, we are able to supply all 11 ranges available.



RAL 040 40 50



RAI 040 40 50 05



RAL 060 50 30



RAL 060 50 70



RAL 060 70 05



RAL 060 70 20



RAL 070 70 60



RAL 095 50 50



RAL 130 50 30



RAL 140 60 10



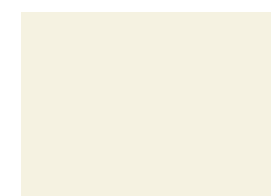
RAL 250 40 15



RAL 3004



RAL 7016



RAL 9001

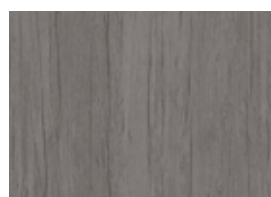
Woods



Alder



Beech



Carbon Oak



Cheery



Ebony Limestone



Ebony Marble

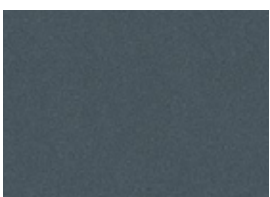


Slate Oak

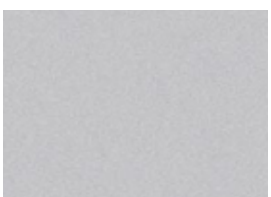
Metallics



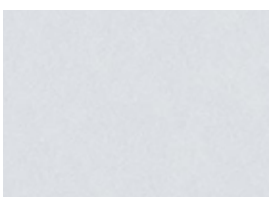
Aluminium



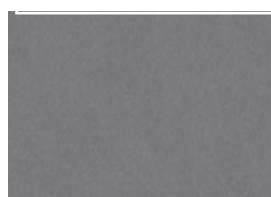
Alumium Grey



Anthracite



Gold



Graphite Grey

Colour Accuracy

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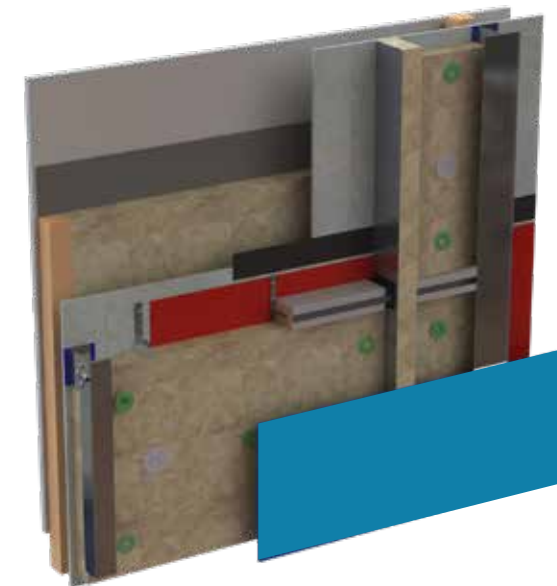
Solid Aluminium Façades: A1 non-combustible rainscreen cladding solution

Solid Aluminium  LUXE
COAT

Solid Aluminium Cladding provides an A1 classified, non-combustible, high impact resistant solution with exceptional durability and mechanical benefits. Aluminium's light weight and high strength-to-weight ratio make it a valuable asset as a recladding façade, while its fire reaction and insulating properties help provide safety and energy efficiency.

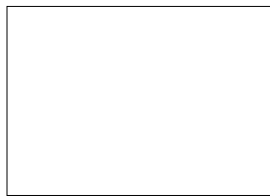


- A1 classified non combustible to BS EN 13501-1
- Lightweight and easy to install
- Custom designed to a range of dimensions and shapes
- Highly durable and impact resistant
- Easy to maintain

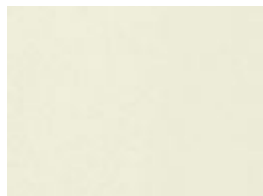


Solid Aluminium Façades: A selection of finishes and colours

The colours shown below are just a sample of the possible RAL, NCS and NCS-s colours. In addition to our out stock range, our products can also be colour matched to almost any RAL colour. (Project size and minimum order may apply).



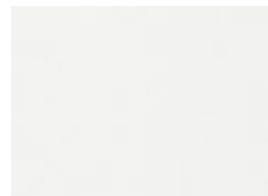
White



Cream



Beige



Light Grey



Platinum Grey



Basalt Grey



Anthracite Grey



Deep Black



Yellow



Orange



Red



Rust Red



Yellow Green



Moss Green



Steel Blue



Ice Silver Metallic



Dark Grey Metallic



Champagne Metallic



Bronze Metallic



Copper Metallic



Gold Metallic

Colour Accuracy

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Our full portfolio range the

Supertech

Render

Brick Slips

Swiss Pearl

Rockpanel

ACM

Solid Aluminium

Stone

Sheathing Boards

Insulation

Membranes

Fixings & Ancillaries

Cavity Barriers

Support Frames

Technical expertise is at the core of our business

Our technical services and certification process are fundamental to our success. Over decades of product and system development we have worked, and continue to work, with industry-leading accreditation bodies to ensure we offer the best products and systems.

We are constantly striving to enhance the technical services we provide to our customers and clients and have been leading the development of technology solutions to support our offering.

We believe it to be on of the most extensive & far-reaching certification & accreditation process in the industry




More than just products

Our in-house fabrication service allows customers to order both building boards and façades to exact sizes, thereby reducing construction cutting time, minimising wastage and improving environmental impact. We are able to cut, shape, drill, slot, bevel, bull nose and finish to most specifications. Machining also enhances the accuracy and consistency of the manufacturing process, improving overall quality.

We are able to supply customers with bespoke sized building boards and facades to meet specific project requirements direct to site. From a supplied panel list we can optimise required panels against standard sheet sizes available to provide the most efficient use of the material.



Thank you for taking the time to review our offsite product guide.
If you require any further information on our products or services, please contact us.

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Technical  0800 488 0531  technicalservices@benx.co.uk  www.benx.co.uk



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