

Insulation & Construction

Solutions for the construction industry

BEWI
www.bewi.com



*Products for
civil engineering,
infrastructure,
foundations,
floors, walls
and roofs.*



BEWI

BEWI is a leading European provider of packaging, components, and building & construction solutions. Through a circular business model, we produce raw materials and end goods, while collecting and recycling used materials into new products.

We have ambitious targets for profitable growth and to decarbonising customer offering and our own operations, supported by innovation, industry partnerships, and our people. With a vision to protect people and goods for a better everyday, we are "leading the change" towards a circular economy.

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Leading the change to a circular economy



Our vision is our reason for being. It is a higher purpose that gives everyone at BEWI a shared objective and sets us apart.

It means taking responsibility and adapting our business to tomorrow's expectations. We are already on our way. Today BEWI collects and recycles several thousand tonnes of insulation and packaging. By managing the entire value chain – from raw materials to finished product and back to raw materials – we can close the loop and lead the change towards a circular economy. Getting there won't be easy. We need to be more committed and innovative than ever before, but we are already well on our way.

Creating value by offering construction solutions in innovative and efficient ways

Today our products protect and insulate everything from fish and vegetables to fragile products. BEWI innovations are used in walls, roofs and floors, infrastructure and civil engineering projects.

Sustainability is our strategic driver. Sustainability doesn't just come from the raw materials we use, but also from product and design development, production processes, use and re-use systems. By combining technology and innovation with production and operational know-how, we will develop new, sustainable areas for our raw materials and products. That's how we will lead the change towards a circular economy.



GreenLine

Made with up to 100% recycled material

Several sustainable solutions

GreenLine is our sustainable product range, made with up to 100% recycled expanded polystyrene (EPS). By transforming collected EPS waste, such as fish boxes, packaging, and other polystyrene products into new EPS beads, GreenLine helps reduce the use of virgin materials while supporting a circular economy.

Different but still the same

Made of post consumer EPS that we collect and recycle. EPS retains its first-rate properties even if it's recycled again and again. This means that the GreenLine range has the same excellent quality as our other products while making a difference for the climate and your sustainability targets.

Here, there & (almost) everywhere

Most of our EPS product range can be manufactured as GreenLine. Its properties are on par with regular EPS.

The road to sustainable alternatives just got shorter.



Broad range

Many of our EPS products are available as GreenLine



Made from waste

We collect used EPS, recycle and reuse it in GreenLine



Let's speed up

By working together, we can adopt a circular economy faster

01

COLLECTION

We collect EPS waste to be recycled.

02

RECYCLING

It's shredded and fed into an extruder – pressure and heat creates a melted, densified foam that becomes rGPPS.

03

A NEW MATERIAL

Our rGPPS granulate is of the highest quality, certified and cost-effective.

04

RECYCLED EPS

At our RAW facilities we use the rGPPS to manufacture recycled EPS with the same properties as virgin material.

Last year BEWI collected nearly

40,000

tonnes of EPS across Europe



GreenLine Insulation Solutions

What makes GreenLine different?

- Made from recycled material rather than virgin EPS.
- Designed to have similar performance and quality to standard EPS insulation products, including thermal insulation and structural properties.
- Helps reduce the carbon footprint of construction projects.
- Supports a circular economy model where used EPS is collected, recycled, and turned into new products.

Providing energy efficient solutions

Insulation & Construction

BEWI has been developing new products in EPS for the construction industry since 1980.

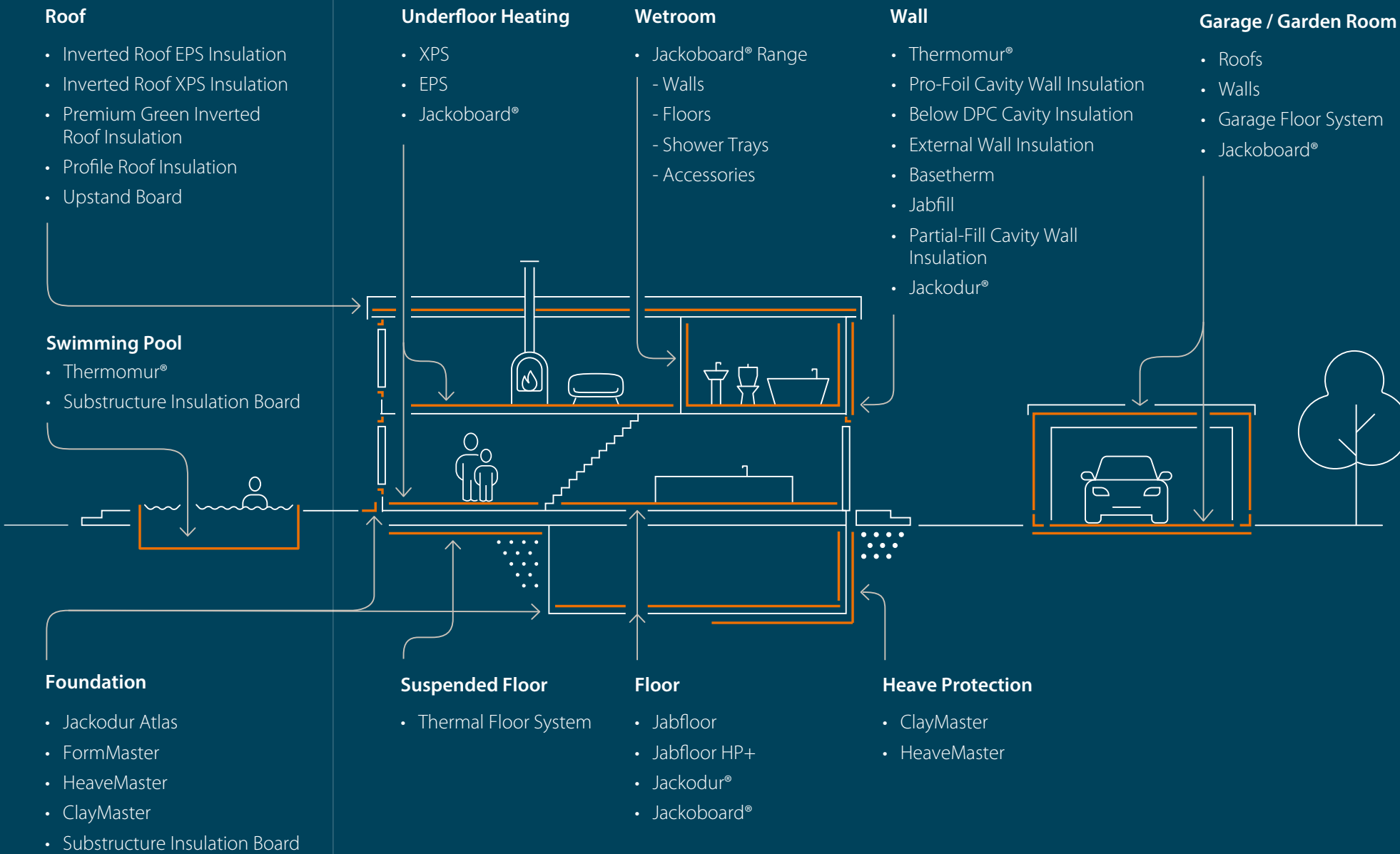
We have a range insulation and construction solutions, offering a comprehensive range of products designed to improve energy efficiency, durability, and sustainability in buildings and infrastructure projects.

Our portfolio includes expanded and extruded polystyrene (EPS and XPS) insulation, foundation and floor systems, insulated concrete formwork (ICF), roof and wall insulation and waterproof construction boards for wet-room applications.

Serving both residential and commercial markets, BEWI's products support modern, energy-efficient construction while incorporating increasing levels of recycled and circular materials.



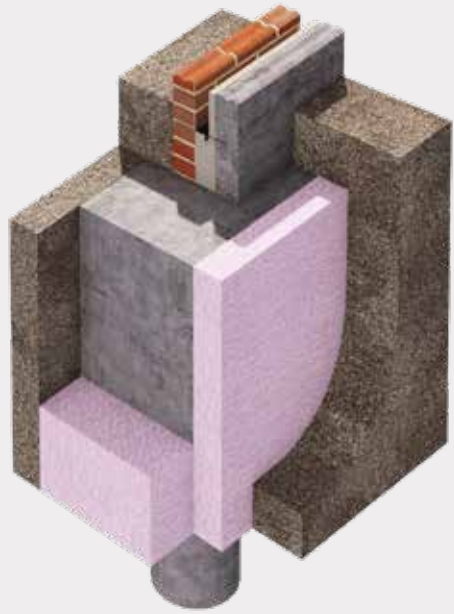
BEWI House – Our Residential Product Range



BEWI ClayMaster

Below ground clay heave protection

Contact us about our *GreenLine* alternative



ClayMaster is a lightweight expanded polystyrene (EPS) board placed around foundations to reduce pressure caused by expanding clay soil (called clay heave).

Clay soils expand when wet and shrink when dry. This movement can push against foundations and damage buildings. ClayMaster acts as a compressible buffer so the soil pressure is absorbed so as not to damage the concrete structure.

For use below concrete ground beams with a maximum depth of 600mm, in piled foundation construction, and at the vertical face of deep trench foundations. For heave protection of ground floor slabs see BEWI HeaveMaster.

ClayMaster has been tested and approved by the British Board of Agrément (BBA) as a compressible fill material to reduce the pressure exerted on concrete foundations from expanding clay soils (clay heave). Certificate number 20/5831.

ClayMaster EPS boards are engineered to resist moisture and deliver reliable performance in below-ground conditions. It is lightweight and is coloured pink to differentiate from standard EPS.

Dimensions

Standard Size: 1200 × 2400mm and 600 × 1200mm
(other sizes available to suit beam dimensions)

Standard Thickness: 50, 75, 100, 150 and 200mm
(other thicknesses available to order)

Key Benefits

- BBA Certified – 20/5831
- Resistant to moisture
- Lightweight
- Durable
- A+ rated in BRE Green Guide to Specification



BEWI HeaveMaster GHP

Engineered Ground Heave Protection

Contact us about our *GreenLine* alternative

BEWI HeaveMaster GHP (Ground Heave Protection) is a compressible EPS cellular void former system placed beneath concrete slabs or ground beams during construction.

It temporarily supports the wet concrete and reinforcement while it cures, but is designed to collapse under upward ground pressure if the soil expands.

BEWI HeaveMaster GHP cellular collapsible void formers are supplied in a range of grades and depths to suit your specification.

They are manufactured in a range of thicknesses to meet the application – Beam, Slab or Insulated Slab – requirement and the soil plasticity and predicted ground movement on the site.

Each void former is engineered to protect the foundations of buildings against the damage caused by the upward pressure of clay or ground heave in a specific situation.

In cases where insulation is also required beneath the slab, HeaveMaster can be utilised to provide combined ground movement protection and insulation from a single product.

Dimensions

Slab Board: 1200 × 1200mm

Beam: 300 – 1200mm widths

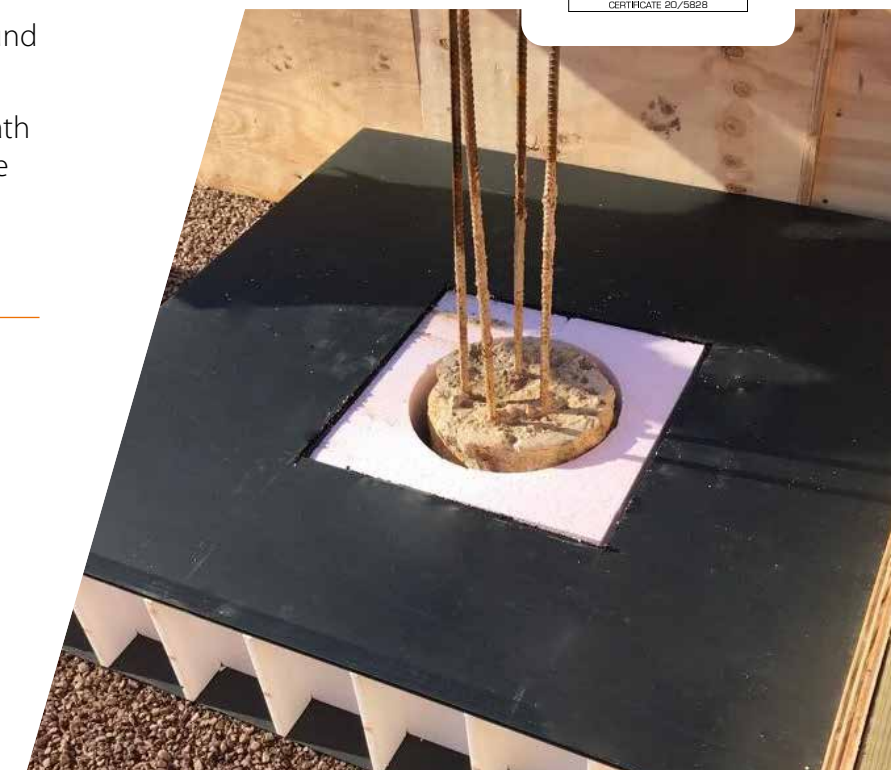
Standard Depths:

Beam	90, 155, 220mm
Slab	95, 160, 225mm
Insulated Slab	87, 152, 217mm*
XD (Extra Deep)	100, 200, 300mm

*Plus the thickness of the insulation

Key Benefits

- BBA Certified – 20/5828
- Protects foundations against upward pressure caused by ground heave
- Meets NHBC Technical Standards
- Board sizes aid a fast, easy installation
- Available with bonded EPS insulation board



BEWI FormMaster Shuttering

A durable, lightweight, permanent formwork



BEWI FormMaster Shuttering offers a permanent formwork solution for casting ground beam foundations and pile caps. It's perfect for shaping the U-profile of ground beams and is also well-suited for applications requiring only side shuttering.

Made from durable polypropylene corrugated sheets they can be supplied in both U and L-shaped profiles or as flat sheets.

Additional components such as corner connectors, straight connectors, tape and a variety of reinforcement spacers are also available.

Key Benefits

- Reduces concrete wastage
- Supplied as flat panels for on-site formwork fabrication or pre-shaped to the desired profile
- Lightweight & easy to install
- Ideal for use with HeaveMaster GHP & ClayMaster
- Can be supplied as a package with all spacers, connectors & tape

Dimensions

Standard Sheet Size: 2400 x 1900mm

Standard Thickness: 8mm

BEWI FillMaster

Lightweight structural fill material

Contact us about our GreenLine alternative

BEWI FillMaster is a lightweight structural fill material used mainly in civil engineering and geotechnical construction. It is made from expanded polystyrene (EPS) and supplied as large blocks or sheets that replace traditional soil or aggregate fill.

EPS has been used as a geotechnical material globally since the 1960's with BEWI FillMaster being used in UK civil engineering applications for over 30 years.

As a manufacturer our team can work with you to tailor a custom grade to meet the specific requirements of your project and avoid over specification.

Applications

- Road embankments
- Road Widening
- Rail Embankments
- Bridge Abutments
- Retaining Walls
- Landscaping & Noise Bunds Culverts
- Temporary Access Solutions
- Floatation

Dimensions

Standard Block Sizes:

2400 x 1200 x 600mm

Supplied as block or cut sheet

Key Benefits

- Excellent compression properties
- High-strength-to-weight ratio
- Resistant to moisture
- Manufactured to performance requirement
- Available containing flame retardant additive
- 100% recyclable



BEWI Sheet Pile Infill

**Infilling the open voids in
an exposed sheet pile wall**

Contact us about our *GreenLine* alternative



**BEWI Sheet Pile Infills
provide a quick and
cost-effective solution to
infilling the open voids in
an exposed sheet pile wall.**

The lightweight expanded polystyrene infills are cut to suit the pile shape and are available in a range of profiles and densities to meet project requirements.

Infills the open pans to reduce the volume of concrete pour and aids removal following construction of the associated concrete retaining wall.

Wall Formers are designed and cut in the factory and supplied to the construction site ready to use.

Key Benefits

- Lightweight & easy to install
- Provides a flat surface for any required membranes
- Aids the removal of sheet piles if required
- Reduces the volume of concrete pour
- Removes the need for backfilling

Dimensions

Sizes: Range of sizes, typically up to 1.2 metre
Available in a range of grades

Shape: Standard and bespoke

BEWI Sacrificial Guide Wall Formers

Formers for piled foundation systems

Contact us about our *GreenLine* alternative

**BEWI Sacrificial Guide Wall
Formers are a time saving
solution for the construction
of piled foundation systems.**

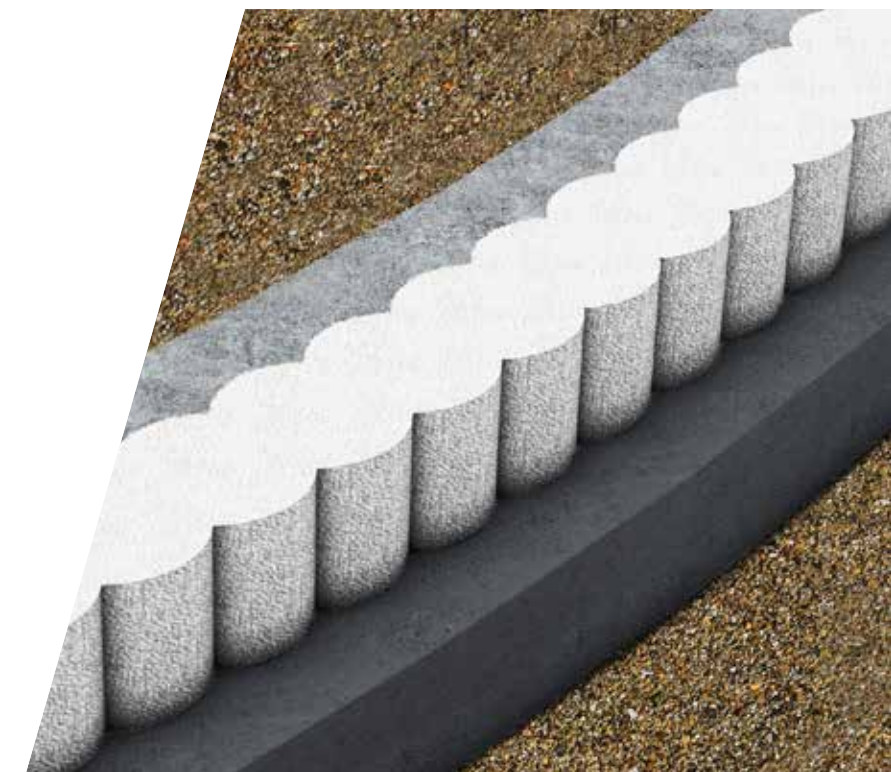
The sacrificial EPS (Expanded Polystyrene) formers are used to create the inner shape of the concrete guide walls and play a key role in producing accurate piles in all types of construction projects.

BEWI can transfer a customer's pile layout plan into a drawing detailing the size, shape and position of each former. Once the design has been approved and ordered by the customer, the formers are CNC cut from large solid blocks of expanded polystyrene.

The Wall Former products are lightweight and can be manually handled in line with manual handling regulations.

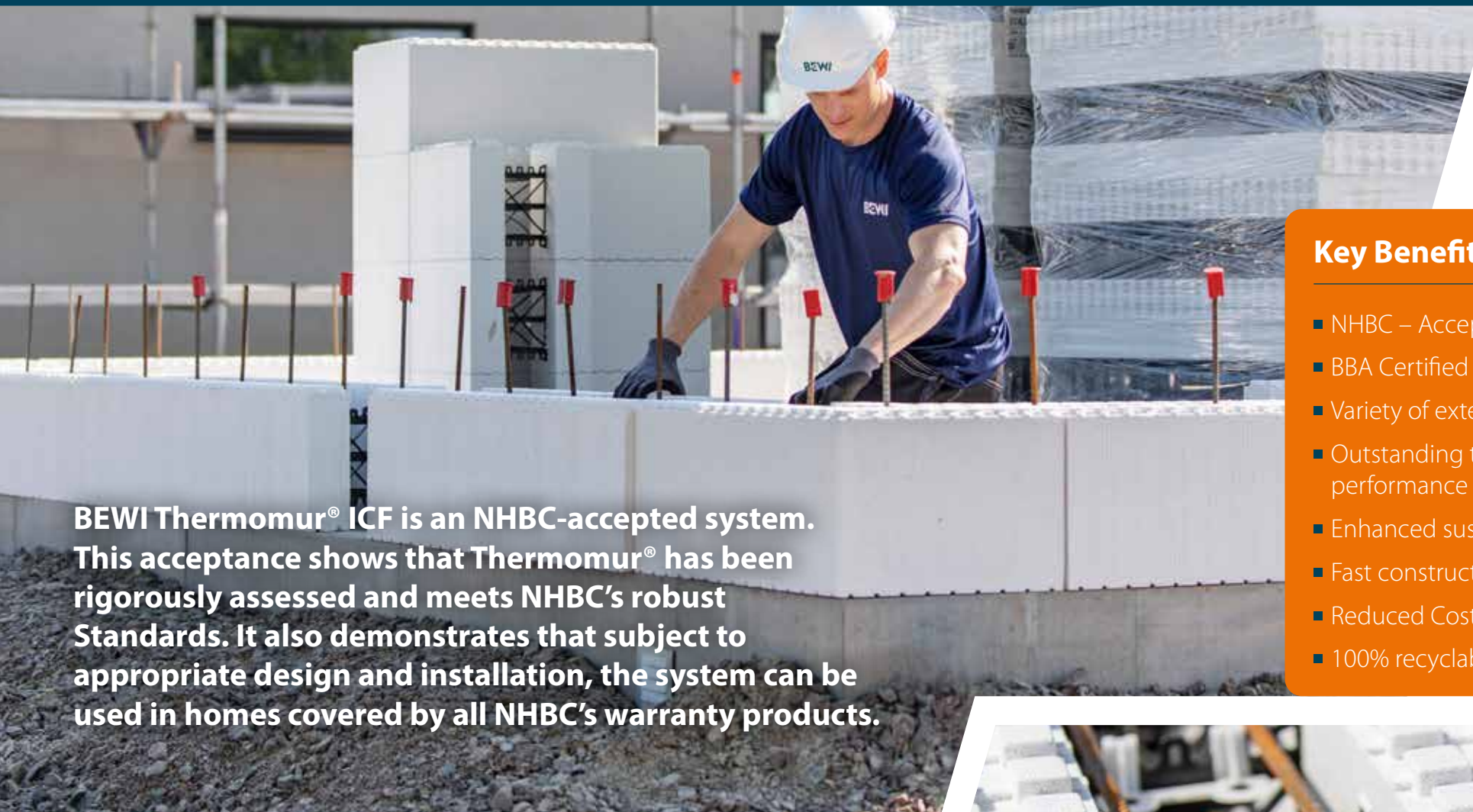
Key Benefits

- Designed to meet the unique requirements of your pile layout plan
- Cost-effective solution
- Designed & cut in the factory
- Fast & simple installation
- Delivered in sections
- Not struck from the wall as the low density EPS allows the piling rig to augur through the formers
- Single-use design
- 100% recyclable



Thermomur®

ICF (Insulated Concrete Formwork) system



BEWI Thermomur® ICF is an NHBC-accepted system. This acceptance shows that Thermomur® has been rigorously assessed and meets NHBC's robust Standards. It also demonstrates that subject to appropriate design and installation, the system can be used in homes covered by all NHBC's warranty products.

Key Benefits

- NHBC – Accepted System
- BBA Certified – 20/5808
- Variety of exterior finishes
- Outstanding thermal performance
- Enhanced sustainable rating
- Fast construction
- Reduced Costs
- 100% recyclable

BEWI Thermomur® an ICF (Insulated Concrete Formwork) system, offers a proven alternative to traditional building methods. As a Modern Method of Construction (MMC) it is a sustainable building system that integrates insulation materials into the concrete formwork.

BEWI Thermomur® can achieve Passive House standards (Passivhaus), offering exceptional thermal insulation, airtightness, and low energy consumption. The build is very fast with less mechanical equipment needed on site. The result is a building with high thermal and acoustic performance for both residential and commercial buildings.



ICF Solutions

With the Thermomur® range, we've crafted a solution that stands as a testament to our dedication to quality and innovation. Our ICF blocks are a manifestation of years of experience and a relentless pursuit of excellence, providing a robust and efficient option for construction projects in the harshest of climates.

ICF Building Solutions can draw upon the expertise of some of the world's most renowned international ICF construction specialists. The Thermomur® ICF building system is composed of moulded blocks of expanded polystyrene (EPS). The lightweight Thermomur® blocks are easy to work with and enable fast construction on-site by stacking them like bricks, reinforcing them, and then filling them with concrete.

To complement our Thermomur® ICF building system blocks, our Jackodur® Atlas foundation system can be utilised for a complete XPS solution.



Jackodur® Atlas

An efficient thermal foundation system for floor slabs & raft foundations

JACKODUR® Atlas is a specialised, high-performance foundation insulation and formwork system made from extruded polystyrene foam (XPS). It is designed to create thermal bridge-free floor slabs for new builds, particularly passive houses, combining durable insulation with built-in formwork to simplify construction.

BEWI Jackodur® Atlas is an NHBC accepted system

This acceptance shows that Jackodur® Atlas has been rigorously assessed and meets NHBC's robust Standards. It also demonstrates that subject to appropriate design and installation, the system can be used in homes covered by all NHBC's warranty products.



Key Benefits

- NHBC – Accepted System
- BBA Certified – 20/5812
- Installation can be done by the general contractor
- Faster, less complicated ground preparation
- Simple, clear instructions
- Flat slab design creating lower ground pressure
- Complete over site slab offers greater internal design flexibility
- Eliminates thermal bridging
- Thermal mass of slab within the building envelope
- Installation not restricted by weather conditions
- 100% recyclable

Jackodur Atlas is designed as a dual-purpose system that functions both as permanent shuttering (formwork) and as thermal insulation for floor slabs, helping to streamline construction while reducing time and labour costs. Its interlocking tongue-and-groove system creates a continuous insulating layer, effectively eliminating thermal bridges at the floor slab junction and improving overall energy efficiency.

The system is manufactured from durable, moisture-resistant XPS (extruded polystyrene), offering high compressive strength suitable for load-bearing foundations. It is also highly customizable, with components supplied pre-cut and numbered to match specific site layouts, which minimizes material waste and simplifies installation. In terms of performance, Jackodur Atlas meets demanding energy-efficiency standards, including those required for Passive House construction.

Certified

The Jackodur® Atlas system is BBA certified and supported by a European Technical Assessment (ETA) for use as insulation beneath concrete slabs. A comprehensive Environmental Product Declaration (EPD) confirms its environmental performance across its entire lifecycle, from manufacture and transport through to use and recyclability. Jackodur® Atlas is also certified by the Passive House Institute, reflecting its suitability for energy-efficient and low-carbon building projects.



BEWI Thermal Floor System

Thermal Floor System for suspended floors

Contact us about our *GreenLine* alternative

The BEWI Thermal Floor System is a structural high-performance, lightweight, and fast-installing alternative to traditional suspended concrete block-and-beam floors.

It uses EPS (expanded polystyrene) panels paired with concrete beams, designed to reduce heat loss and meet Part L building compliance. The system is then finished with a structural top sheet and concrete topping.



Key Benefits

- BBA Certified – 20/5829
- Fast & easy installation
- Achieves specified U-Values
- Outstanding Psi Values assist with Part L Compliance
- Reduces depth of required excavation & spoil removal
- Improves Health & Safety on site
- Zero waste left on site
- 100% recyclable

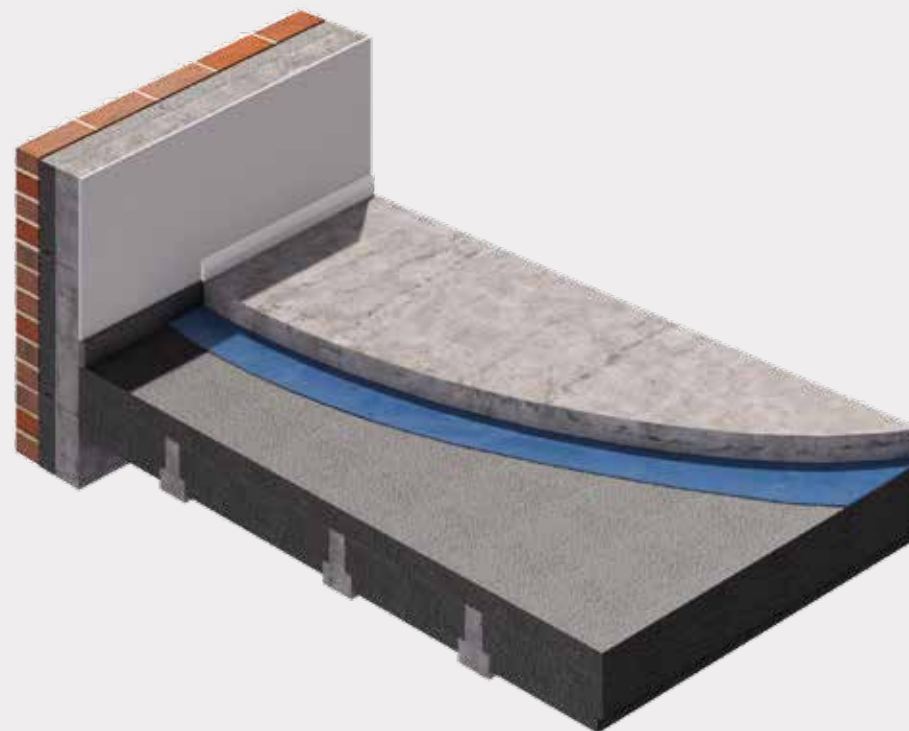
This system delivers superior thermal performance, providing high-quality insulation for suspended ground floors in both residential and commercial projects. It also enables faster and safer installation, as the lightweight EPS panels can be easily cut on-site with a hand saw, reducing the risks associated with handling heavier materials like concrete blocks.

In addition to its practical benefits, the system helps reduce cold bridging by maintaining consistent insulation across the entire floor surface, minimising heat loss. It also supports sustainability goals, as BEWI offers collection and recycling of EPS waste. The system is BBA certified, ensuring reliability and compliance, and is suitable for a wide range of applications, including garages and living areas.

Efficient Construction with Integrated Insulation

The BEWI Thermal Floor System works by first laying pre-stressed concrete beams to carry the structural loads of the floor. BEWI insulation panels made from expanded polystyrene (EPS) are then fitted between and around the beams and an EPS top sheet is laid across the top.

Once the beams and insulation panels are in place, a structural concrete topping is poured over the system to form the finished floor slab. This creates a strong, solid, and well-insulated suspended floor that can be installed more quickly and efficiently than traditional block-and-beam floor constructions.



BEWI Jabfloor (including HP & HP+)

High-Performance insulation board for ground bearing & suspended floors

Contact us about our *GreenLine* alternative



BEWI Jabfloor (HP & HP+) insulation is for use in ground bearing and suspended floor constructions for both new and existing domestic and commercial buildings.

The application and thermal performance targets will determine the grade and type of Jabfloor required for your project.

Typical floor constructions incorporating Jabfloor, Jabfloor HP or Jabfloor HP+ include below-ground supported slabs and rafts, installations beneath screed or timber board finishes, and use with suspended concrete planks, suspended beam-and-block systems, and suspended timber floors. Additionally, Jabfloor can be applied for perimeter-only insulation and in basement settings, providing versatile insulation solutions for various structural requirements.

Key Benefits

- Available in a range of grades & thermal conductivities
- BBA Certified*
- Compliant with Building Regulations
- Easy to handle & install
- Flood resilient
- BRE Green Guide Rating A+
- Available with flame retardant additive
- 100% recyclable

*Certain grades & applications

Common Applications

- Below ground supported slab
- Above slab below chipboard
- Above slab below screed
- Precast suspended concrete
- Cold Store

Dimensions & Performance

Standard Size: 2400 × 1200mm

Standard Thickness:

25, 30, 40, 50, 60, 75, 100, 120, 150 and 200mm

Thermal Conductivity:

Jabfloor 0.034W/mK – 0.038W/mK

Jabfloor HP 0.032W/mK

Jabfloor HP+ 0.030W/mK



BEWI Substructure Insulation Board

Low water absorption properties

Contact us about our *GreenLine* alternative

BEWI Substructure Insulation Boards are manufactured using low water absorption EPS bead technology, offering exceptional performance.

This makes them highly suited for demanding below-ground applications, particularly in basement walls and floors, where moisture resistance and long-term performance are essential.

This makes BEWI boards particularly well-suited for basement walls and floors, where resistance to damp conditions is critical. In addition to their moisture-resistant qualities, the boards are lightweight, easy to handle, and simple to install, contributing to faster construction times and reduced labour costs.

Their robust composition also provides high compressive strength, enabling them to withstand the loads typically encountered in substructure applications without compromising performance. As a result, BEWI Substructure Insulation Boards offer a durable, efficient, and practical insulation solution for projects requiring dependable performance below ground level.

Dimensions & Performance

Standard Size: 1200 x 1200mm
(with 15mm rebated edges)

Board Coverage: 1.44m²

Standard Thickness: 50mm – 240mm
(in 5 mm increments)

Thermal Conductivity (declared):

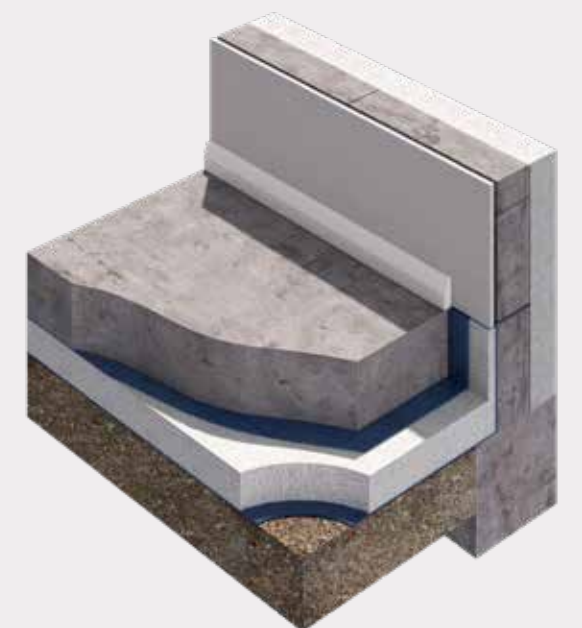
200 grade 0.033W/mK

200+ grade 0.031W/mK

300 and 500 grades 0.033W/mK

Key Benefits

- Resistant to the effects of freeze/thaw
- Available in a range of grades
- Easy to handle & install
- Lightweight & durable
- Flood resilient
- Resistant to moisture
- 100% recyclable



BEWI Pro-Foil Cavity Wall

High-performance Partial-Fill & Full-Fill Cavity Wall insulation with improved thermal resistance

Contact us about our *GreenLine* alternative



BEWI Pro-Foil Cavity Wall board is a high-performance EPS board with a laminated air cushioned film and a reflective aluminium foil-facing. This provides a superior thermal resistance that lowers U-values enabling a reduction in cavity wall thickness.

The board also provides a higher vapour resistance and a rainwater barrier. It can be installed below DPC and contributes to the reduction of the thermal bridge at the junction of the ground floor and the external wall.



Key Benefits

- KIWA Certificate – BAW 22 258 P A UK
- Declared Thermal Conductivity (λ_D) 0.030W/mK
- Suitable for partial-fill (25mm or 50mm residual cavity) or full-fill (10mm residual cavity)
- Lightweight & easy to install
- Acts as cavity rainwater barrier
- Durable & rot-proof
- Permanent insulation for the lifetime of the building
- Can be installed below DPC level
- 100% recyclable

Thermal Performance

A U-Value of 0.18W/m²K can typically be achieved with a 105mm thickness of BEWI Jabfill HP based on a common cavity wall construction using a range of materials for both inner and outer leaf.

BEWI Pro-Foil is designed to be used in cavity wall construction. It combines the improved thermal conductivity of EPS and low emissivity of a foil (laminated of bubble foil and aluminium with reflective surface) to reduce U-values and therefore the building footprint can be reduced.

It also provides improved vapour resistance properties and acts as a cavity rain barrier.

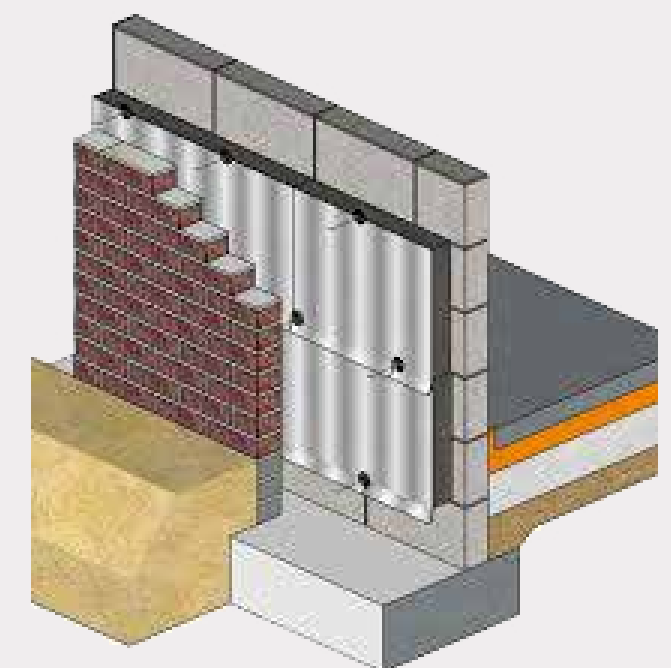
How it works?

Heat transfer is a combination of conduction, convection and radiation. Pro-Foil Cavity Wall not only slows down conductive and convective heat flow, but its reflective surface also acts as a radiant barrier to prevent further heat loss. For optimum effectiveness, this reflective layer must face the air gap.

Dimensions

Standard Size: 1200 × 450mm

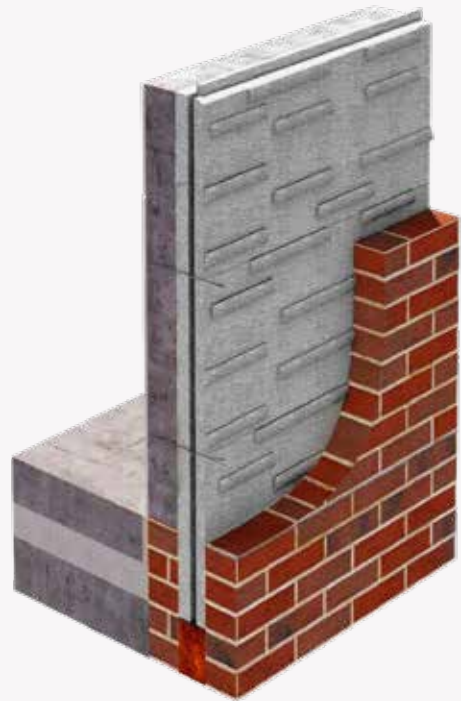
Standard Thickness: 55, 105 and 145mm



BEWI Jabfill HP

Full-fill cavity wall insulation system

Contact us about our *GreenLine* alternative



BEWI Jabfill HP is a full fill cavity wall insulation system manufactured using high-performance (HP) expanded polystyrene.

The insulation boards have a fluted face and a tongued and grooved edge profile which is fully-interlocking; the insulation fills the cavity and does not require special clips or wall ties.

Features tongue-and-groove on all four edges. The external face has a series of 5mm moulded drips, and the bottom external board edge has a continuous angle fillet drip which overlaps the top of the board below when installed. This design feature helps to shed any rainwater ingress away from the lateral joints.

Key Benefits

- High-Performance Expanded Polystyrene
- Lightweight & easy to install
- Can be installed below DPC level
- Durable & rot-proof
- Flood resilient
- Permanent insulation for the life of the building
- 100% recyclable

Thermal Performance

A U-Value of 0.18W/m²K can typically be achieved with a 150mm thickness of BEWI Jabfill HP based on a common cavity wall construction using a range of materials for both inner and outer leaf.

Dimensions & Performance

Standard Size:

1200 × 450mm, 476 × 1219mm

Actual (including tongues and bottom edge detail)

Standard Thickness:

100, 125 and 150mm

Thermal Conductivity:

Jabfill HP70E 0.032W/mK

BEWI Partial-Fill Cavity Wall Insulation

Contact us about our *GreenLine* alternative

BEWI Partial-Fill cavity wall insulation is designed to be incorporated into new masonry walls during construction.

The insulation is lightweight and easy to handle and is retained against the required leaf by clips on the wall ties.

Thermal Performance

A U-Value of 0.23W/m²K can typically be achieved with a 100mm thickness of BEWI Partial-Fill cavity wall insulation HP 70 based on a common cavity wall construction using a range of materials for both inner and outer leaf.

Dimensions & Performance

Standard Size:

1200 × 450mm

Standard Thickness:

25, 40, 50, 60, 75, 100, 125 and 150mm

Other sizes are available to order

Thermal Conductivity:

EPS 70 (white) 0.038W/mK

EPS HP70 (grey) 0.032W/mK

Key Benefits

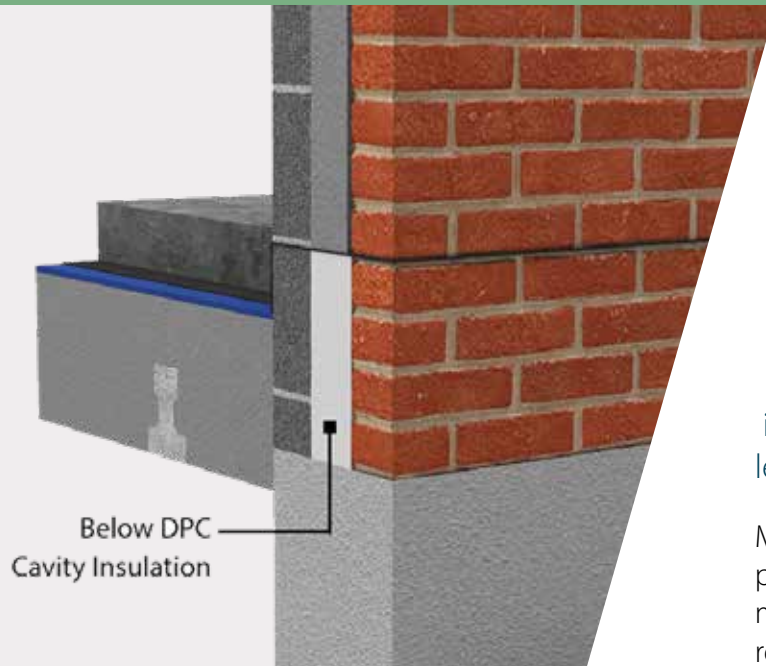
- Easy to install
- Lightweight & easy to handle
- Resistant to moisture
- Durable & rot-proof
- Maintains the cavity
- EPS has an A+ rating in the BRE Green Guide to Specification
- Permanent insulation for the lifetime of the building
- 100% recyclable



Below DPC Cavity Insulation

Insulation for cavity walls below Damp Proof Course level

Contact us about our *GreenLine* alternative



BEWI Below DPC (Damp Proof Course) Cavity Insulation is a lightweight, moisture-resistant Expanded Polystyrene (EPS) board designed to bridge the gap between floor and wall insulation.

Installed below the damp-proof course (DPC), it reduces cold bridging, thermal loss at ground level, and helps meet Part L building regulations.

Manufactured from EPS 70 or EPS 70 HP (high-performance), with options for flame retardant material, it aids the compliance with Part L1 regulations and improves PSI values.

Dimensions & Performance

Standard Sizes:

1200 x 450mm, 1200 x 600mm

Standard Thickness:

50, 70, 90, 110 and 140mm

Thermal Conductivity:

Below DPC Cavity Insulation Standard

0.038W/mK

(Non Flame Retardant – Reaction to Fire Class F)

Below DPC Cavity Insulation HP+

0.030W/mK

(Non Flame Retardant – Reaction to Fire Class F)

Below DPC Cavity Insulation Standard

0.038W/mK

(Flame Retardant – Reaction to Fire Class E)

Below DPC Cavity Insulation HP+

0.030W/mK

(Flame Retardant – Reaction to Fire Class E)

Key Benefits

- Supplied in EPS 70E grade (with flame retardant) or EPS 70 (without flame retardant)
- Extends cavity insulation below floor slab level
- Resistant to ground moisture penetration
- Unaffected by air infiltration
- Lightweight & easy to handle & install
- Improves Psi value
- Links floor & wall insulation
- Provides perimeter insulation to floors
- 100% recyclable

BEWI External Wall Insulation – EPS

Contact us about our *GreenLine* alternative

BEWI EPS EWI is a lightweight, durable Expanded Polystyrene (EPS) external wall insulation designed for building thermal performance.

It offers high moisture resistance, prevents cold bridging, is compatible with various renders and claddings. These boards are either bonded or mechanically fixed to the exterior.

Installation & Compliance

BEWI EWI is a component in an external wall insulation system and installation is to be completed by an approved installer. Installation of EWI systems must meet the requirements of the Building Regulations and any other applicable regulatory requirements.

Dimensions & Performance

Standard Size:

1200 x 600mm

Standard Thickness:

From 20 – 200mm

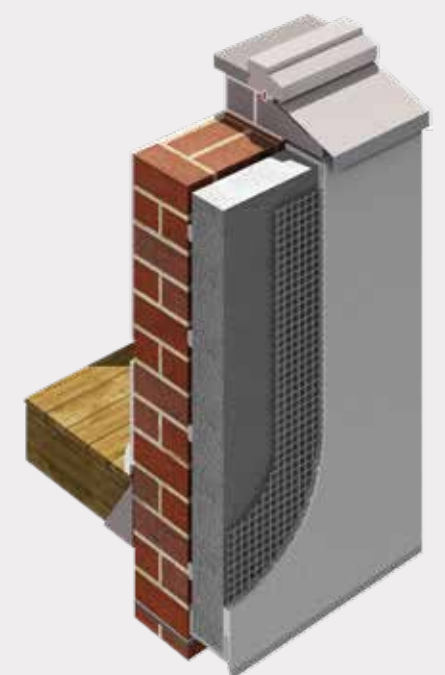
Thermal Conductivity:

EWI 70E (white) 0.038W/mK

EWI HP+70E (grey) 0.030W/mK

Key Benefits

- Available in a range of Lambda values
- Off-cut collection
- Achieves an A+ rating in the BRE Green Guide to Specification
- Lightweight & easy to handle
- Flood resilient & durable
- Can be cut to fit with a sharp knife
- Helps to achieve a high quality rendered surface
- Insulates for the lifetime of the building
- Reaction to Fire Class E
- 100% recyclable



BEWI External Wall Insulation – Mineral Wool



BEWI Mineral Wool EWI is a non-combustible, high-density stone wool insulation board designed for external wall systems.

It provides superior fire resistance (Class A1), excellent acoustic insulation, and high breathability, making it ideal for high-rise buildings and retrofit projects needing to meet strict safety and energy standards.

Compatible with various render and cladding systems, including brick slips and render systems.

Installation & Compliance

BEWI Mineral Wool EWI is a component in an external wall insulation system and installation is to be completed by an approved installer. Installation of EWI systems must meet the requirements of the Building Regulations and any other applicable regulatory requirements.

Dimensions & Performance

Standard Size: 1200 x 600mm

Standard Thickness: From 60 – 230mm

Thermal Conductivity: 0.036W/mK

Tensile Strength: $\geq 7.5\text{kPa}$

Key Benefits

- Easy & quick application
- High insulation performance
- Excellent mechanical properties
- Dimensionally stable
- Helps to achieve a high quality rendered surface
- Insulates for the life of the building
- Reaction to Fire Class A1 (non-combustible)
- Helps reduce sound transmission

BEWI Basetherm Impact-resistant base board

Contact us about our *GreenLine* alternative

BEWI Basetherm is a high-performance, high-density (200 Grade) expanded polystyrene (EPS) board designed for insulating external walls below the damp-proof course (DPC).

It serves as a durable, moisture-resistant, and impact-proof base board for External Wall Insulation (EWI) systems, preventing moisture infiltration and thermal bridging.

BEWI Basetherm can be used with EWI EPS or Mineral Wool (up to 11m).

Installation & Compliance

BEWI Basetherm is a component in an external wall insulation system and installation is to be completed by an approved installer. Installation of EWI systems must meet the requirements of the Building Regulations and any other applicable regulatory requirements.

Dimensions & Performance

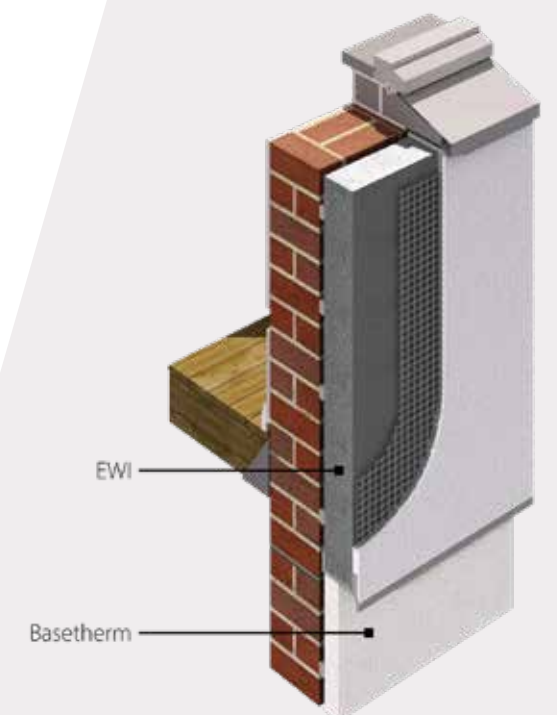
Standard Size: 1200 x 1200mm

Standard Thickness: 50 or 100mm

Thermal Conductivity: 0.034W/mK

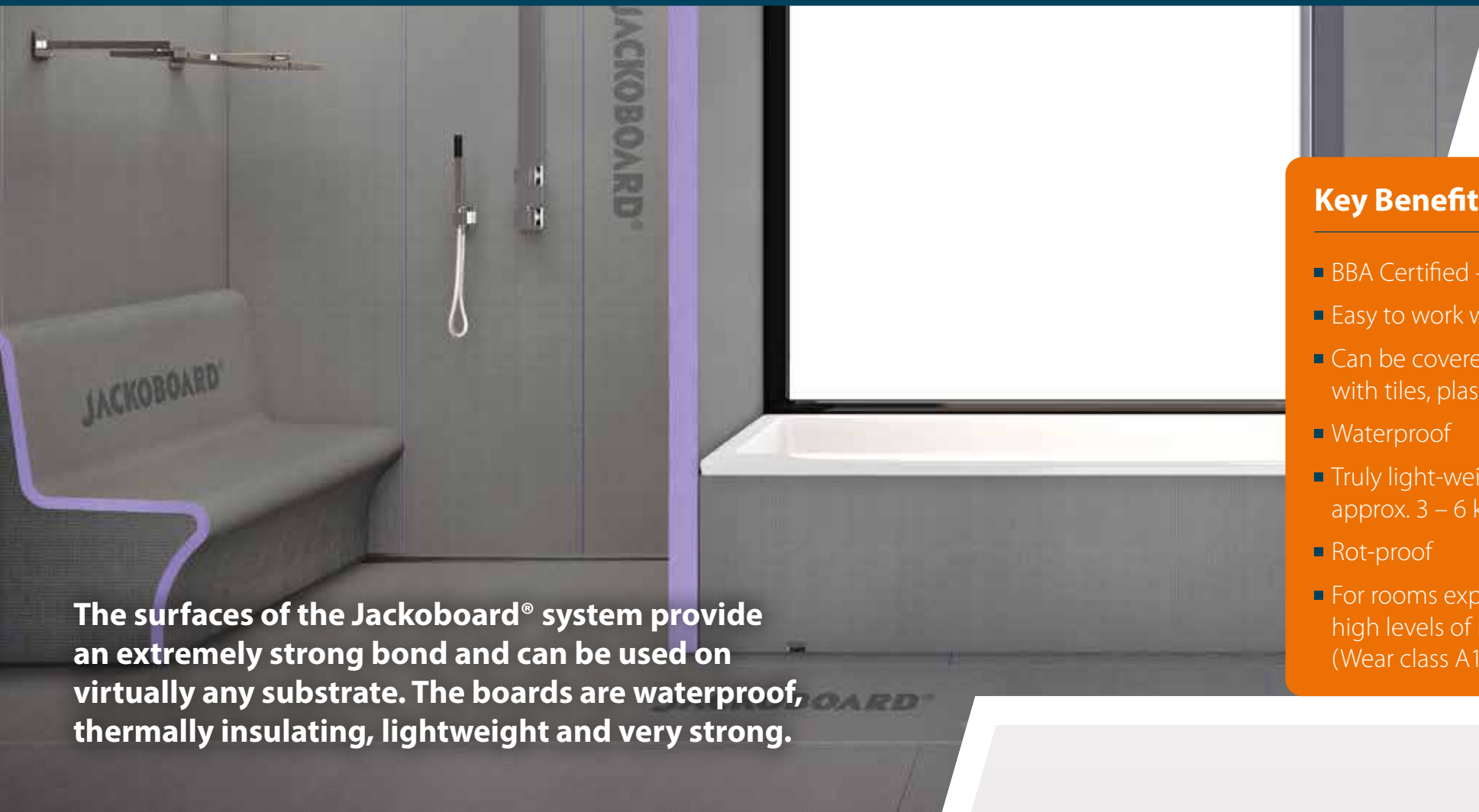
Key Benefits

- Flood resilient & durable
- Achieves an A+ rating in the BRE Green Guide
- Lightweight & easy to handle
- Easily cut to fit with a sharp knife
- Collection & recycling of offcuts
- 100% recyclable



Jackoboard®

The construction board system for creative bathroom design



The surfaces of the Jackoboard® system provide an extremely strong bond and can be used on virtually any substrate. The boards are waterproof, thermally insulating, lightweight and very strong.

Key Benefits

- BBA Certified – 16/5312
- Easy to work with
- Can be covered immediately with tiles, plaster* or render*
- Waterproof
- Truly light-weight approx. 3 – 6 kg/m²
- Rot-proof
- For rooms exposed to high levels of moisture (Wear class A1 and A2)

Exceptional Qualities

One of the key advantages of these boards is their extruded polystyrene core that provides excellent insulation against thermal changes, ensuring that the tiles stay in place for longer periods. Moreover, this core also imparts strength to the boards, making them resistant to bending and breakage, even when subjected to heavy loads.

Another significant benefit of these boards is their special coating on both sides that offers exceptional waterproofing properties, making them impervious to moisture and water damage. This waterproofing ensures that the tiles remain firmly in place without any risk of warping due to exposure to moisture.

Furthermore, these boards are incredibly lightweight, making them easy to handle and install, even in hard-to-reach areas. Additionally, their unique composition allows them to be cut and shaped easily, enabling you to achieve the desired shape and size for your tiling projects.

Dimensions & Performance

Size: 1200 x 600mm

Thickness: 4, 6, 10, 12, 20, 30, 40, 50 and 60mm

Size: 2400 x 600mm

Thickness: 10, 12, 20, 30, 40, 50, 60 and 80mm

Size: 2600 x 900mm

Thickness: 12.5mm

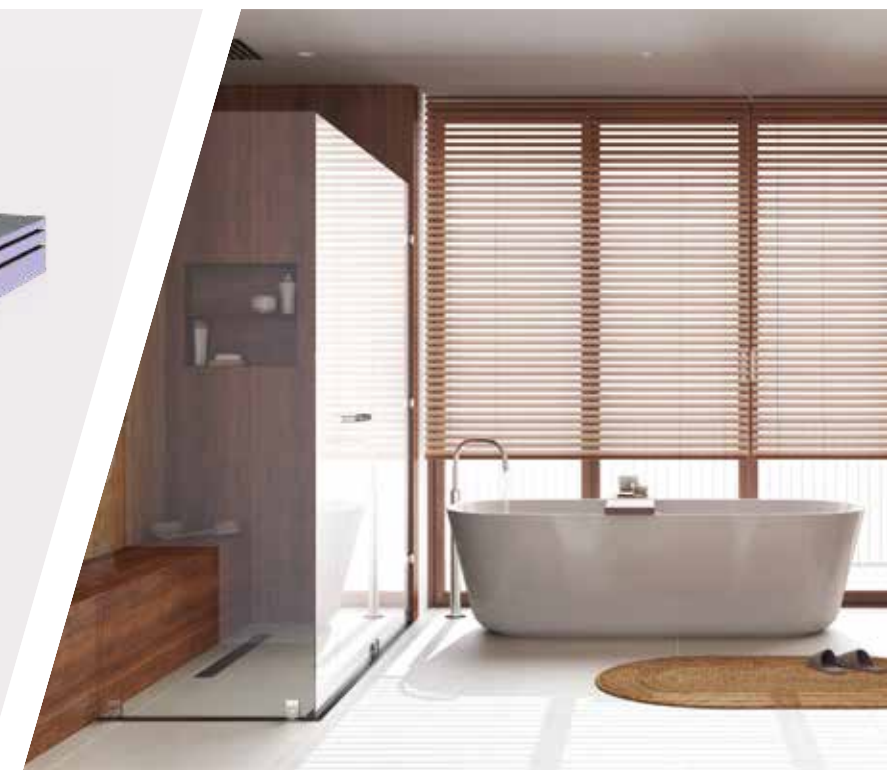
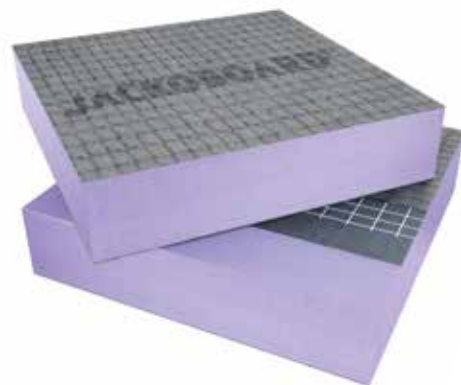
Thermal Conductivity: 0.034W/mK

Compressive Strength: >300kPa



Thanks to their extruded polystyrene foam core and the special coating on both sides, the Jackoboard® construction boards are the ideal base for tiles, plaster* or render*

The surfaces of the Jackoboard® system provide a strong primer and can be used on virtually any substrate. At the same time, they are waterproof, thermally insulating, truly light-weight and easy to install.



**not covered by BBA certification*

Jackoboard® Accessories

Construction board system accessories for creative bathroom design



Key Benefits

- Waterproof
- Thermally insulating
- Truly light-weight
- Easy to install

Product Sectors

- Construction board system
- Bathroom furniture self assembly set
- Steam & wetroom seating kits
- Shower elements
- Fixing & Sealing Systems

Bench Kits & Niches

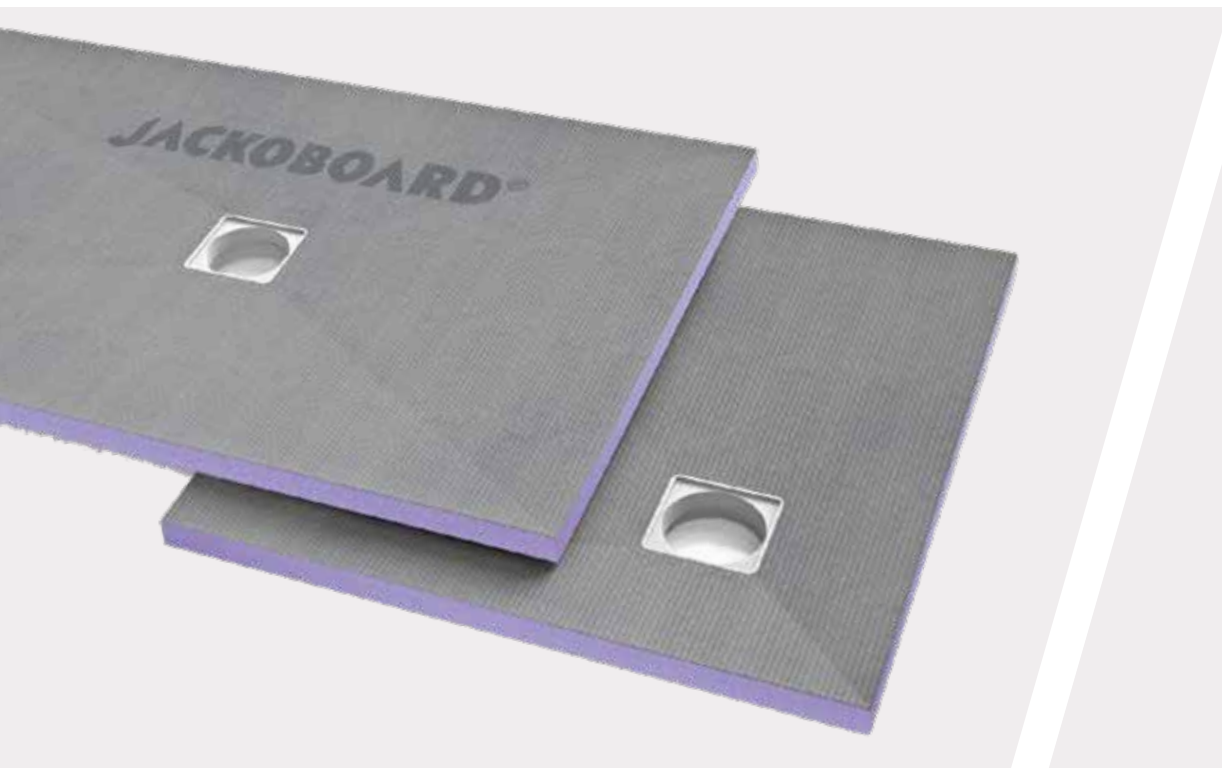
- **Bench Kits:** Flat packed bench kits designed for fast installation in wetrooms and bathrooms, creating stylish tiled seating areas with waterproof and thermally insulating properties.
- **Niches:** Flat packed waterproof wall niches providing a sleek and practical recessed storage solution.

Shower Systems & Trays

- **Shower Trays:** Pre-formed, waterproof shower trays such as the Aqua, Aqua Flat, Aqua Reno, and Aqua Line ranges, available with central or offset drains.
- **Drainage Kits:** Horizontal and vertical drain systems with high-quality stainless steel grates and fittings to suit different installation needs and floor types.
- **Shower Drain Spares:** Replacement parts for the drain systems, including reducers and spare grates.

Waterproofing & Installation

- **Waterproof Sealing Kits:** Kits that include primer, joint tape, and liquid membrane to provide a complete waterproof system for Jackoboard® surfaces.
- **Primer:** A liquid primer designed to prime timber and plasterboard surfaces. The primer is not required for priming Jackoboard.



Jackoboard® Lignin

**Crafted entirely from bio-based
& recycled raw materials**



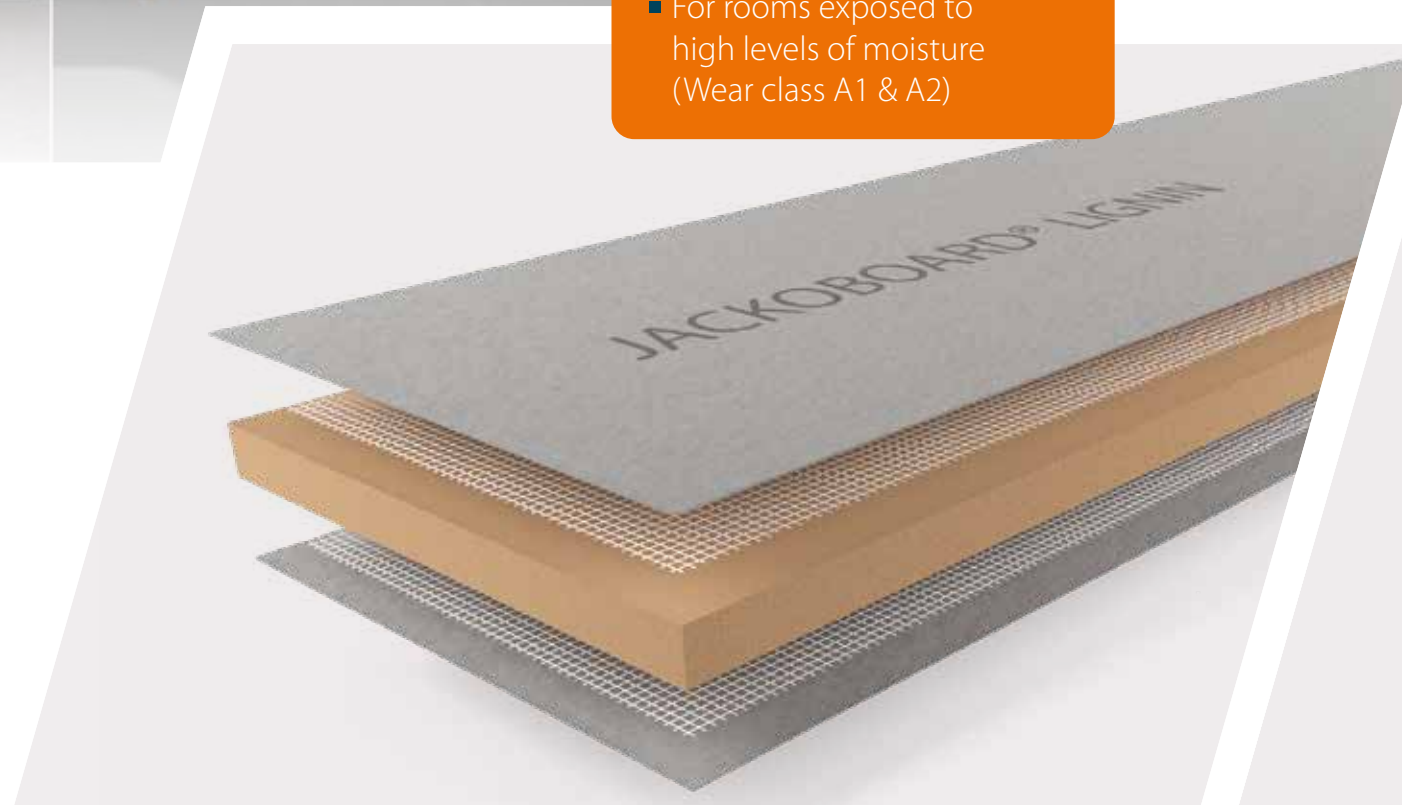
The new Jackoboard® Lignin product generation sets new standards in environmentally conscious construction.

Its innovative core, made from extruded lignin polymer foam, is produced exclusively from the bio-based raw material lignin and recycled material. This creates a sustainable construction board that is perfectly suited for interior construction and renovation projects.

With a CO₂ neutral core material, Jackoboard® Lignin makes an important contribution to reducing CO₂ emissions. This construction board is the perfect choice for anyone prioritising top quality, innovation, and sustainability in interior construction and renovation.

Key Benefits

- Extruded lignin polymer foam, core made of bio-based & recycled raw materials
- Easy to work with
- Waterproof
- Pressure-resistant & dimensionally stable
- Can be covered immediately with tiles, render or plaster
- Truly light-weight approx. 3 – 6 kg/m²
- Thermally insulating
- Rot-proof
- For rooms exposed to high levels of moisture (Wear class A1 & A2)



Lignin: Nature's strength

The core of the construction board contains the biopolymer lignin. Lignin has long been underutilised as a sustainable raw material. It is abundantly produced as a by product of the paper industry during the breakdown of cellulose.

Lignin is a complex organic polymer predominantly found in the cell walls of plants. It plays a vital role in forming the supporting tissue that provides plants their rigidity and structural strength.

In addition to lignin, the construction board core contains only recycled material. The use of recycled materials conserves valuable resources and significantly reduces the CO₂ footprint of our products.

Outstanding Features

The new Jackoboard® Lignin construction board sets standards for environmentally conscious building, combining sustainability with top product quality. As a durable and waterproof board, it excels in tile installation, interior construction, and renovation projects. Particularly in rooms with high moisture exposure, Jackoboard® Lignin fully showcases its advantages.

Those who value ecological building materials, quality-oriented construction, and long-term reliable solutions will find Jackoboard® Lignin to be a responsible choice for modern, sustainable construction projects.



BEWI Premium Inverted Roof Insulation

EPS Inverted Roof Insulation

Contact us about our *GreenLine* alternative



BEWI Inverted Roof Insulation is a unique innovative closed cell expanded polystyrene (EPS) with low water absorption properties.

Key Benefits

- KIWA Certified – BAR 19 098 S A UK
- Suitable for use on flat roofs with zero pitch & slopes up to 10°
- Resistant to the effects of freeze/thaw
- High compressive strengths available – 200, 300, 500 & 600 grade & 200 Premium+ to suit all applications
- 100% recyclable

Product Specification

BEWI supplies insulation boards in a range of grades suitable for all flat roof applications.

Inverted Roof EPS Insulation boards in 200, 300 and 200+ grades have adequate resistance to the loads associated with light maintenance traffic on roofs, and to pedestrian foot traffic on balconies and roof terraces.

Inverted Roof EPS Insulation in 500 and 600 grade meets higher loading requirements in applications such as car parks and podiums.

Where paving slabs are to be placed over the insulation on spacer pads the point loads should be calculated to an equivalent uniformly distributed load (See datasheet for example).

EPS is compatible with and can be laid directly onto hot melt and bitumen based weatherproof membranes. See installation details for advice on other membrane types.

Dimensions & Performance

Standard Size: 1200 x 1200mm (with 15mm rebated edges)

Board Coverage: 1.44 m²

Thickness: 50mm up to 240mm (in 5mm increments)

Thermal Conductivity:
0.031W/mK – 0.039W/mK (dependent on grade and finish)

The insulation boards are loose laid over the weatherproofing, there is no requirement to adhere or mechanically fix the boards.

BEWI Filter Membrane is laid over the insulation. Lastly, gravel ballast and/or paving slabs are used to secure the insulation to the deck.



Jackodur EVO 300 & PLUS 300

XPS Inverted Roof Insulation



Jackodur® EVO 300 & PLUS 300 are high-performance extruded polystyrene insulation products, engineered to provide superior thermal performance.

The insulation boards are loose laid over the weatherproofing, there is no requirement to adhere or mechanically fix the boards. BEWI Filter Membrane (WFRL) is laid over the insulation. Finally, a suitable finish is applied to secure the insulation to the deck.

XPS is compatible with and can be laid directly onto hot melt and bitumen based weatherproofing membranes.

Key Benefits

- BBA Certified – 21/5944
- Installed quickly & securely in a single-layer
- Suitable for zero fall roofs & roof terraces
- Applicable to new & existing buildings
- High compressive strength
- Resistant to the effects of freeze/thaw

Dimensions & Performance

Jackodur EVO 300

Standard Size: 1250 x 600mm (with 15mm rebated edge)

Board Coverage: 0.75m²

Thickness: 40 – 400mm

Thermal Conductivity:

40 – 80mm thickness 0.035W/mK

100 – 400mm thickness 0.034W/mK

Jackodur PLUS 300

Standard Size: 1250 x 600mm (with 15mm rebated edge)

Board Coverage: 0.75m²

Thickness: 80 – 320mm

Thermal Conductivity:

50 – 80mm thickness 0.029W/mK

100 – 320mm thickness 0.028W/mK

BEWI Upright Boards

Thermal insulation flat roof upstands

BEWI Upright Boards are designed to deliver thermal insulation for upstands in flat roof constructions, commonly used in inverted roof systems. Their primary role is to insulate parapet upstands and minimise cold bridging, helping to maintain the thermal integrity of the building's internal envelope.

Manufactured from mineral wool insulation, factory bonded to an external-grade, high-impact fibre-cement facing board, BEWI Upright Boards ensure durability. They are engineered to provide a robust, weather-resistant, and impact-resistant finish.

Key Benefits

- Low thermal conductivity helps provide a thermal break at the base of upstands & perimeter walls of a flat roof
- Compatible with most flat roof waterproofing systems
- Impact, weather resistant, facing board
- Euroclass A2-s1,d0 for buildings over 11m high

Application Fields

BEWI Upright Boards provide a non-combustible, impact and weather resistant thermal insulation for use on low level inverted roof parapet upstands, including to and across compartment walls.

Dimensions

Standard Size: 1200 x 600mm

Thickness: 56mm



Technical Services

**Need help specifying?
Our technical team is ready to help**



Need Guidance?

Tell us what you need, and we'll tailor a solution for your business.

Contact us today for more information.

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Sales: +44 870 600 3666

www.bewi.com/uk

Technical Services

BEWI provides support for:

- **U-value calculations**
- **CAD details**
- **NBS specifications**
- **Product guidance**
- **PSi values**

Our Technical Services Team

Our in-house Technical Services Team provides expert guidance and support across our full range of products and solutions. With decades of hands-on industry knowledge, the team is dedicated to helping you make informed decisions at every stage of your project.

Backed by over 35 years of insulation and construction experience, we offer free, reliable technical advice to construction professionals. Whether you need clarification on product selection, regulatory compliance, or energy efficiency requirements, our specialists are on hand to help.

The Technical Services help desk is staffed from **8.30am to 5.00pm, Monday to Friday** ensuring timely and practical support when you need it most.



BEWI
for a better everyday

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