

Transform tomorrow, today with Eco-brick

Introducing **Eco-brick** by wienerberger – the evolutionary building solution that paves the way for a sustainable future without compromise.

WALL SOLUTIONS



**Do more
with less**

An Eco-brick is 35 mm
narrower, without
compromising durability,
strength or stability



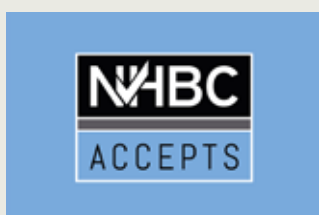
wienerberger UK & Ireland is building for what's next, empowering the construction industry to create a sustainable future. As a united group of specialist businesses, we deliver innovative, high-quality building products, systems, and solutions for the entire building envelope, including walls, roofs, heating, and water management.

Our extensive portfolio, including bricks, cladding, roof tiles, solar systems, ventilation, membranes, rainwater systems, plastic piping, plumbing, and underfloor heating, is enriched by expert technical services and unwavering customer support. We dedicate ourselves to building enduring partnerships, supporting exceptional careers, and placing sustainability at the heart of everything we do.

Driven by foresight, collaboration, and a passion for progress, we listen to our customers' challenges and deliver solutions that stand the test of time, supporting them in creating safer, smarter, and more sustainable communities for generations to come.

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bit.ly/NHBC-WB

NHBC Accepts is a recognition of an innovative system that has been extensively assessed by a third party to meet robust NHBC Standards.

The urgency of sustainable architecture

A shift is underway in our industry, an urgency underscored by the relentless march of climate change and the evolving dynamics of legislation. Part L Building Regulations are set in place and the Future Homes Standard is on the horizon. These changes are clear indicators that the status quo is no longer acceptable, even if they are taking longer than expected to come into force.

The Future Homes Standard is an important development in our quest for a sustainable future. However, its timeline remains uncertain, and active involvement from professionals like you is crucial to shape it effectively.

Implementation may still be a few years away. But why wait for the ink to dry on new standards when the call to action is clear and present? Your clients demand not just aesthetics and functionality within budget and timelines, but an added layer—sustainability.

No longer a nice-to-have, sustainability is a must-have. If sustainability isn't a priority for your clients, perhaps it is a value that is important to you personally, or your practice is pushing for it to be a top consideration in every project you take on to give you a competitive advantage.

The challenge is to incorporate sustainability effectively amidst the constraints you face daily. We shouldn't be asking, "Can we create and build beautiful, functional, and sustainable buildings?" Instead, we should be asking, "How quickly can we adapt our practices to ensure we do?"

Change can be daunting, but consider that our global climate is changing at an unprecedented rate. The environmental impact of the built environment is significant. Yourselves as builders and architects together with wienerberger as building product manufacturer are both in a unique position to mitigate this to the best of our abilities. We need to focus on two things: reducing the embodied carbon emissions of new buildings and improving the operational efficiency of existing ones. That's where Eco-brick comes in...



What is Eco-brick?

A slim-line brick that offers more wall thermal performance with increased insulation & less upfront and embodied carbon

Eco-brick is the perfect choice for environmentally aware housebuilders and specifiers who must achieve the uplift to standards in Part L of the building regulations. It enables you to achieve a reduction in upfront embodied carbon per square metre of brickwork.

The Eco-brick system offers all the performance and aesthetics of a standard format brick system, its slim-line profile offers an impressive 37.5mm of additional cavity space which when used for extra insulation will result in lower U values or, will give the option to reduce the overall wall footprint to provide additional internal living space.

Eco-brick system comes with its own components and is available in a wide range of colours and has been used successfully in Europe for over a decade.

Having received NHBC Accepts certification, and with wienerberger on hand to provide on-site support, Eco-brick is ready to be adopted across the UK, by housebuilders and specifiers who want a competitive edge.

more insulation or
living space

37.5mm



Benefits in brief



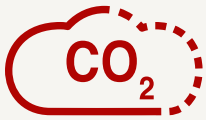
Up to 31% reduction in upfront embodied carbon.



36% slimmer profile allows increased insulation.



Up to 37% reduction in transport journeys.



Up to 5 tonnes of CO₂ saved through reduction in transportation.



Up to 36% reduction in mortar and water requirements.



36% lighter in weight.



Recognition of an innovative system that has been extensively assessed by a third party to meet robust NHBC standards.



Eco-brick has been tried, tested and used successfully in Europe for over a decade.



On-site support and service options available.

PLEASE NOTE | All measurements are based on Eco-bricks produced in our Warnham factory compared to their equivalent in standard English size. All calculations are based on per square metre of brickwork. Modelling is based on a 3 bedroom house (8,000 bricks) and an estate comprising of 100 houses. Transportation is based on an average delivery of 114km.

All calculations used are available upon request by emailing wbukmarketing@wienerberger.com

Why Eco-brick is the right choice

Eco-brick stands apart as an evolutionary alternative for innovative housebuilders and specifiers.

A first of its kind in the UK, Eco-brick offers a sustainable building solution to forward thinking housebuilders who are wanting to meet the Government's target to deliver 1.5million new homes during the term of this parliament, as well as new regulatory and legislative requirements including the Future Homes Standard.

Eco-brick offers the industry a paradigm shift towards better insulated building stock, improved energy efficiency and reduced upfront carbon emissions.

The changing face of homes

At wienerberger, we adopt a 'Fabric First' approach across our building products and materials and are continuously investing in product development to ensure we can help housebuilders meet the changing shape of our homes and communities. The use of Eco-brick whether singularly or with our clay Porotherm blocks offers the potential to lower U values.

What are U values?

U values measure how effective a home's fabric is at preventing heat transference between the inside and outside of the home. The lower the U value the better, as this indicates more thermally resistant wall constructions.

More insulation or living space

A **36% slimmer profile** offers increased insulation. This provides the opportunity for potential savings on energy bills by adding an additional 37.5mm of insulation or allows potential increase in living space via a reduction in the wall footprint. Using this additional space for thicker insulation will help to deliver walls with better insulating performance. This in turn will improve the building's overall energy efficiency and create the opportunity for improved EPC ratings and lower operational energy demand and bills for homeowners.

Easy to build with

Eco-bricks are easier to handle as they are **36% lighter in weight**. They are laid using traditional techniques with minimal awareness training required, making them easy to build with. They also take up less room when stored on site.

Eco-bricks also have the potential to reduce the risk of Repetitive Strain Injury when used long term. Upfront embodied carbon reduced

Less raw material and energy is used in manufacturing which results in a 31% reduction in upfront embodied carbon per square metre of brickwork.

Less mortar means less water

There are potential cost savings for housebuilders when building with Eco-brick as it requires up to 36% less mortar due to its narrower profile. A reduction in mortar also generates a reduction in on-site water requirements.

Fewer journeys = fewer emissions

Slimmer brick means more bricks per load and a this can lead to a potential 37% reduction in the number of HGV journeys required.

This reduction will have a knock on effect on emissions. Up to 5 tonnes of CO₂ could be saved, thereby reducing housebuilders' environmental impact (calculation based on a site of 100 houses).

In addition, fewer HGV deliveries has social benefits too, including reducing noise nuisance, air pollution and safety risks for communities.

Eco-brick has all the properties of a standard clay brick including strength, durability and the ability to deliver a quality build with longevity.

The Eco-brick range

Eco-bricks are available in a number of formats, manufactured here in the UK and imported from Europe. They are available in a range of beautiful colours to meet the aesthetic needs of your projects.



Warnham Red*



Chartham Multi*



Red Orange Blend*

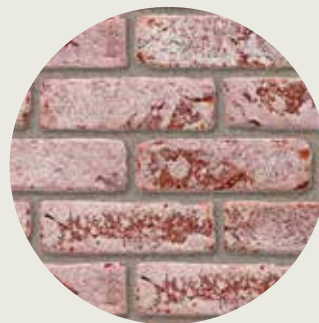


Pampas

COMING SOON



Haywood Red



Jado Red



Pelham Antique



Muria Yellow

| Product name | Type | Production factory | Dispatch location | Size tolerance | | Durability | Active soluble salts | Compressive strength (N/mm ²) | Water absorption (%) | Pack quantity | Individual dry brick weight (kg) |
|------------------|------|--------------------|-------------------|----------------|-------|------------|----------------------|---|----------------------|---------------|----------------------------------|
| | | | | Mean | Range | | | | | | |
| Warnham Red | S | Warnham | Warnham | T2 | R1 | F2 | S2 | 12 | 15 | 800 | 1.53 |
| Chartham Multi | S | Warnham | Warnham | T2 | R1 | F2 | S2 | 12 | 15 | 800 | 1.53 |
| Red Orange Blend | S | Warnham | Warnham | T2 | R1 | F2 | S2 | 12 | 15 | 800 | 1.53 |
| Pampas | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.48 |
| Haywood Red | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.49 |
| Jado Red | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.49 |
| Pelham Antique | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.48 |
| Muria Yellow | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 17 | 904 | 1.47 |

S = Stock

*The panels shown are standard facing bricks and may have slight variations in them.


Helios White

Clarus Cream

Nila Cream

Langdale

Oud Romaans

Saturn Grey

Remo Grey

Bowland

Kassandra

Olde Cheshire

| Product name | Type | Production factory | Dispatch location | Size tolerance | | Durability | Active soluble salts | Compressive strength (N/mm ²) | Water absorption (%) | Pack quantity | Individual dry brick weight (kg) |
|---------------|------|--------------------|-------------------|----------------|-------|------------|----------------------|---|----------------------|---------------|----------------------------------|
| | | | | Mean | Range | | | | | | |
| Helios White | S | Kortemark | Import depots | T1 | R1 | F2 | S2 | 25 | 17 | 880 | 1.48 |
| Clarus Cream | S | Peruwetz | Import depots | T1 | R1 | F2 | S2 | 25 | 17 | 840 | 1.54 |
| Nila Cream | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 17 | 904 | 1.53 |
| Langdale | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 17 | 904 | 1.53 |
| Oud Romaans | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.48 |
| Saturn Grey | S | Peruwetz | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 840 | 1.48 |
| Remo Grey | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.47 |
| Bowland | S | Lanaken | Import depots | T1 | R1 | F2 | S2 | 25 | 14 | 904 | 1.47 |
| Kassandra | S | Beerse | Import depots | T1 | R1 | F2 | S2 | 12 | 15 | 798 | 1.49 |
| Olde Cheshire | S | Beerse | Import depots | T1 | R1 | F2 | S2 | 12 | 15 | 798 | 1.17 |

S = Stock

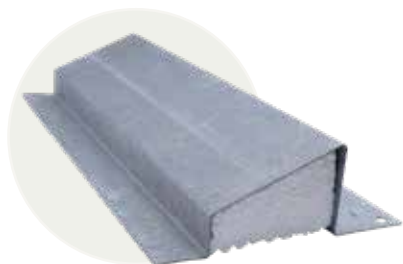


Haywood Red Eco-brick used on a project in Beveren, Belgium

Eco-brick components & accessories

The Eco-brick comes with a range of its own components specially designed to work with the reduced brick width of 65mm. To ensure optimum performance, compatibility, and compliance, it is important that all associated products are clearly specified for use with the Eco-brick system.

When ordering materials, always inform your supplier that the products will be used with Eco-brick.



Lintels



Air bricks



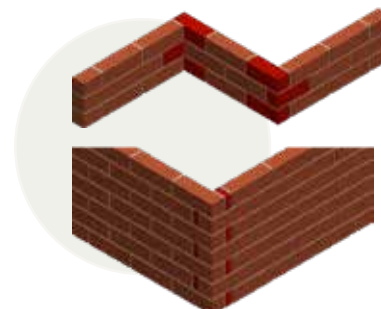
Cavity trays



Periscopes



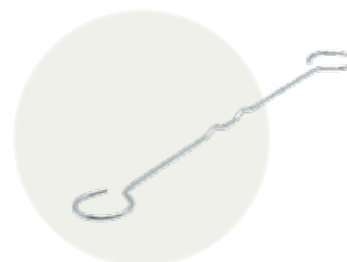
Corner bricks



DPC rolls



Weep vents



Wall ties

| Component | Typical suppliers | Requirement |
|---|--|---|
| Eco-brick (including corner units where required) | wienerberger | Supplied via standard wienerberger distribution |
| Wall ties - masonry | wienerberger | Specified for Eco-brick use Supplied via standard wienerberger distribution |
| Wall ties - timber frame (with applicator) | wienerberger | Specified for Eco-brick use Supplied via standard wienerberger distribution |
| Damp Proof Course (75 mm) | wienerberger or your preferred supplier | Must be suitable for Eco-brick and meet NHBC standards |
| Underfloor ventilation / air bricks | Glidevale Protect or your preferred supplier | Must be suitable for Eco-brick and meet NHBC standards |
| Lintels | Birtley, Catnic, IG, Keystone | Must be suitable for Eco-brick and meet NHBC standards |
| Weep vents | Glidevale Protect or your preferred supplier | Must be suitable for Eco-brick and meet NHBC standards |
| Cavity closures | Glidevale Protect or other | Must be suitable for Eco-brick and meet NHBC standards |
| Roof abutment cavity trays with lead flashing | Glidevale Protect or your preferred supplier | Must be suitable for Eco-brick and meet NHBC standards |
| Cavity Trays | Glidevale Protect or your preferred supplier | Must be suitable for Eco-brick and meet NHBC standards |

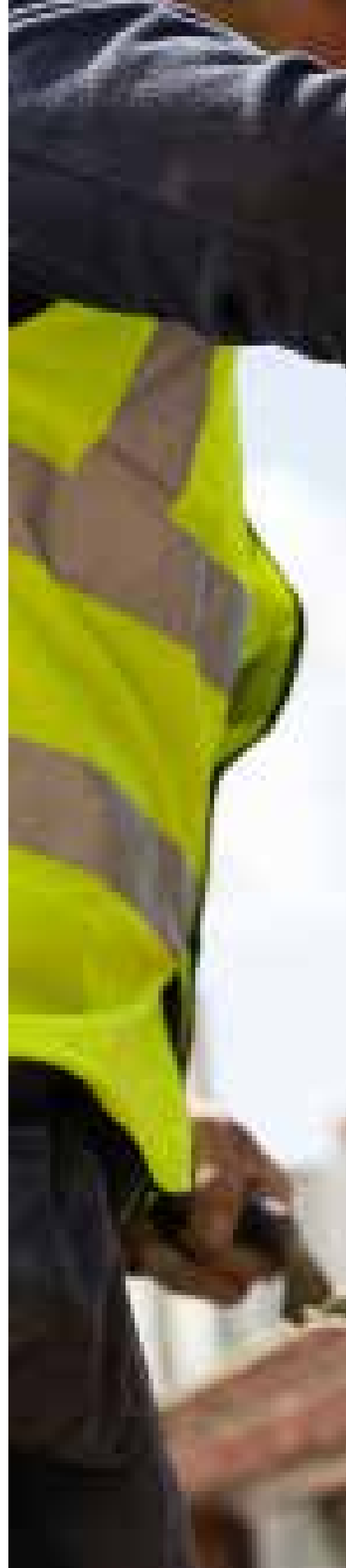
Here to support you

Our unrivalled product training and on-site construction site start-up, helps you introduce a new product with confidence.

Technical Services from wienerberger include ongoing support with questions and advice specific to the product, accessories, ancillary materials, methods, etc.

We'll also supply you with a whole range of information and advice including;

- High quality BIM Objects
- Housepack information
- Full suite of Eco-brick construction details
- Awareness training provided pre and on-site on use of Eco-brick
- Site start-up attendance by wienerberger
- Staged monitoring and inspections to ensure compliance with WallSpec/ HomeSpec
- Close working relationship with Site Management
- Direct contact with wienerberger for advice and assistance throughout construction of building envelope
- Provision of 15 years WallSpec/HomeSpec warranty upon final sign off
- All services provided free of charge.





Design services

Specialist design, technical expertise.

wienerberger's Design Services team offers specialist design and technical expertise, providing effective and helpful advice to achieve successful brickwork.

The services offered range from guidance on the most appropriate product selection for particular projects and applications through to final product specification including current building standards and codes of practice, special shaped bricks, bond patterns, movement joints and brickwork detailing.

A comprehensive knowledge of special shaped bricks combined with the use of CAD software enables us to assist in detailing customer requirements where wienerberger bricks have been specified.

For more information contact Design Services at wbukdesignservices@wienerberger.com





Let your walls show their true colours

A wide range of timeless and contemporary shades of colour ensures we have the right one for your project.



This image is for illustration purposes only. For the full range of colour and size formats please visit our website or contact your wienerberger representative.



Requesting a sample

Interested in a product?

Get a sample delivered to your door

Simply visit **wienerberger.co.uk** and select the product you're interested in. Complete the form and leave the rest to us.

You will receive a confirmation email and your samples will be sent out to you as soon as possible by our customer support team.



Looking for some inspiration?



Chartham Multi



Chartham Multi



Chartham Multi



Chartham Multi



Chartham Multi



Chartham Multi



Oud Romaans
European build

PLEASE NOTE | These images are illustrative only and have either been built in Europe or using the standard UK size version of the brick and are marked accordingly



Pampas
European build



Pelham Antique
UK standard



Pampas
European build



Pampas
European build



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