Be Constructive Ltd, External Solid Wall Insulation Customer Brochure.

*Insulating homes and lowering energy bills*
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Be Constructive is one of the leading solid wall insulation providers in the southeast of England. With a long track record in offering insulation services to the commercial sector, the past few years has seen them take that expertise and deliver it to domestic homes and multi storey flats across the region.

In 2013 Be Constructive teamed up with TheGreenAge, a leading environmental consultancy and energy saving advice portal for homes and small businesses. Together the partnership has rolled out a rapidly increasing number of external wall insulation solutions and can not only help with retrofit but also new build projects.

**External Wall Insulation – Background**

Insulating solid walls with external wall insulation (EWI) help reduce most of the 35% of heat loss that occurs in this area of a property. Solid wall insulation is a fantastic solution that can insulate older properties and those that don't have the post 1930’s cavity walls.

Wall insulation has a greater energy efficiency impact on the property than brand new A-rated double-glazing or a new condensing gas boiler.

Be Constructive uses the integrated Kreisel external solid wall insulation solution, which will improve the thermal performance of walls, so not only do they feel warm to touch but it should reduce condensation and the potential for mould build-up due to insufficient heating in the property.

The u-value (measurement of heat loss – the lower the number the better) of a typical 220mm solid brick wall is between 1.9 to 2.2W/m²K – applying 100mm of the Kreisel expanded polystyrene (EPS) solution with mechanical fixings, reinforcing adhesive and a silicate bring down the u-value of the walls to around 0.27W/m²K (better than current building regulations for new builds - 0.28W/m²K)

The 25 year guaranteed system will not only help waterproof your walls but will make the home nice and cosy in the winter and cool and dry in the summer – improving the quality of life for you and your family.

**How is external solid wall insulation installed?**

External wall insulation is installed by applying a layer of EPS to the outside of the exposed walls of your home. The material is initially stuck to the walls with concrete adhesive and then reinforced by mechanical fixings and plastic caps. The system is further reinforced by a layer of adhesive and reinforcement mesh, and finished off by silicate render, which is waterproof and can be coloured depending on the customer’s choice.

The Kriesel system is an incredibly durable solution, lasting both the test of time and weather, whilst still providing superb insulating performance.
Customer Installation Examples

West London – 4 Bedroom semi-detached property (expected annual energy bill saving £250-£300)

Be Constructive insulated this medium sized semi-detached family home before Christmas 2013. The property had 3 exposed solid brick walls – the front, side (above garage) and the back. As this installation was completed in the midst of a cool December, the family already benefited from a warmer environment due to a better insulated home.

EPS insulation boards being applied to the front of the property.

EPS insulation boards being applied to the side of the property.

Carefully working around fixtures and fixings – cables, pipes and soil pipes.

Extending window sills to ensure no penetration due to run-off areas.
The team insulated this fantastic detached property based in central St. Albans, Hertfordshire – not only was the solid wall insulation providing a more energy efficient home, it was paramount to make the installed air source heat pump be cost effective (to run). The property already had some insulation at the front of the property, which meant the Kreisel solution was only applied to the side and back walls, insulating over 60% of exposed wall area.
Customer Feedback

**Richard Hertfordshire** – Be Constructive team are hard working, well organised, polite, friendly and ultimately did a good job with a good final finish. They accommodated small changes and responded to our suggestions.

**Paula & Gregg (Ealing)** – We had solid wall insulation installed to the back of a mid-terrace Victorian house in London. We were pleased with the completed job by Be Constructive. Kuba was particularly very helpful in explaining the process and attentive in visiting the site regularly.
throughout the week. His team was quiet and efficient therefore minimising disruption to us and our neighbours. The job took a couple of days longer than expected, but this was due to bad weather and the team worked on Saturday to make up the time. The site was left clean and tidy on completion.

Mustaq - I was really impressed with Be Constructive’s professionalism and attention to detail. My property was previously leaking energy, but with the external solid wall insulation installed, I now have a nice and warm, cosy home. The site and office teams were very helpful in choosing colours and talking through various options of the installation process. I was massively impressed with their wire cutters that cut the insulation boards and literally left no mess behind! Highly recommended.

External Solid Wall FAQs

Q: How does the solid wall insulation look around windows and doors?

A: The Kreisel insulation system, like most EWI systems, will thicken the external walls by 120-130mm. Where your existing windows are in line with the walls, our insulation will take the finished surface beyond the existing window line and we will install a profile, which will extend the window sills to provide an aesthetically pleasing and blended finish.

Where you have concrete sills we will replicate the existing sill lines so that the finish is aesthetically pleasing – using suitable and complementary materials determined by site installation conditions.

Photos showing how the insulation blends with existing windows and door openings
Q: How will the external solid wall insulation work with my existing roof line.

A: If your existing roof line finishes 150mm or more beyond the walls, then you shouldn’t have any need to modify the existing roof profile.

Where your existing roof line finishes close to the wall, our insulation will take the finished surface beyond the existing roof line. In order to achieve a smooth and aesthetically pleasing finish we will install a profile, which will blend the new rendered elevation with the existing roof detail to meet the existing solid wall insulation standards.

Alternatively we can extend the roof rafters, but this is subject to a separate survey and the price will vary on the type of roof that you have.

*Photos showing some of our recent roof line finishes:*

Q: Will you make any alteration to the DPC (damp proof course layer)?

A: Our standard solution will finish the line of the insulation at the height of the damp proof course (the DPC layer), which is from the ground up at a range of 100mm to 300mm above ground level. The reason for this is to ensure that moisture cannot be drawn into to the fabric of the insulation and to ensure we do not compromise the existing damp proof course layer.

We can, in addition, allow for a layer of coloured silicate render coat to be applied from the bottom edge of the insulation to ground level. A more expensive mosaic render is also available on request.

*Photos showing how the DPC layer can be finished to the rest of the property:*

Q: What sort of finishes can you offer?
A: There are a range of finishes available for externally insulated walls, if you do not go for our simple white finish. As you can see below the same silicon-silicate render is also available in hundreds of different colours. We can also provide other types of finishes including stenciling, and pebble dash as well as a brick look.

A list of some of the render coloured finishes on offer:

![Render Coloured Finishes](image)

Final Word – System Guarantee

Be Constructive, in collaboration with Kreisel systems, offers customers a **25 year durability guarantee**, subject to conditions of use and maintenance.

Any other questions? We would be pleased to help you out!

**Email:** EWI@TheGreenAge.co.uk  
**Telephone:** 0208 1440897  
**Address:** 87 Charterhouse Street, London, EC1M 6HJ