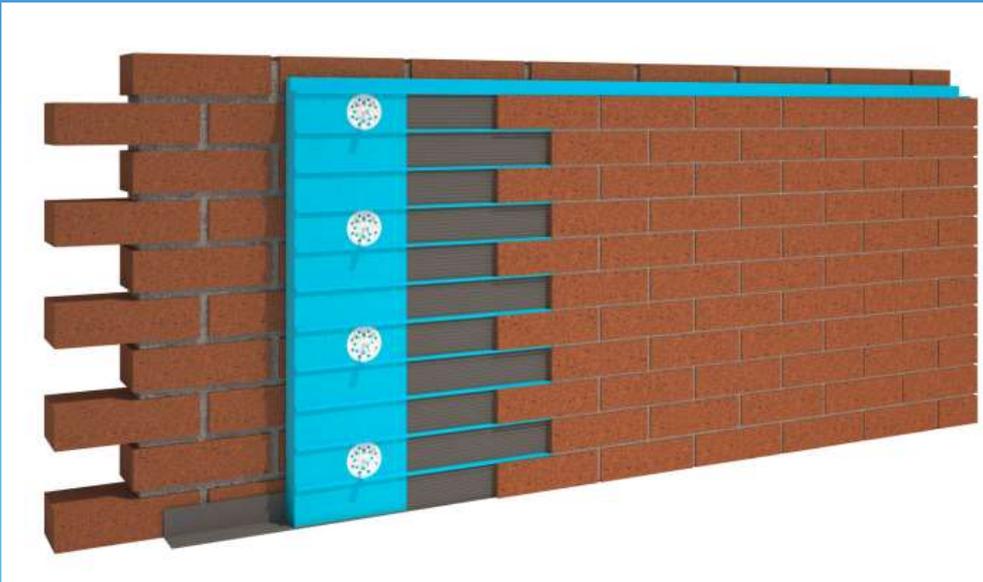


CANDIWALL

INSULATED BRICK SLIP SYSTEM



Versatile

Easy to use

Unique Adhesive System

XPS Insulation

Moisture resistant

Accepts Manufactured or Cut Brick Slips

65mm or 50mm gauge available

Interior or Exterior use

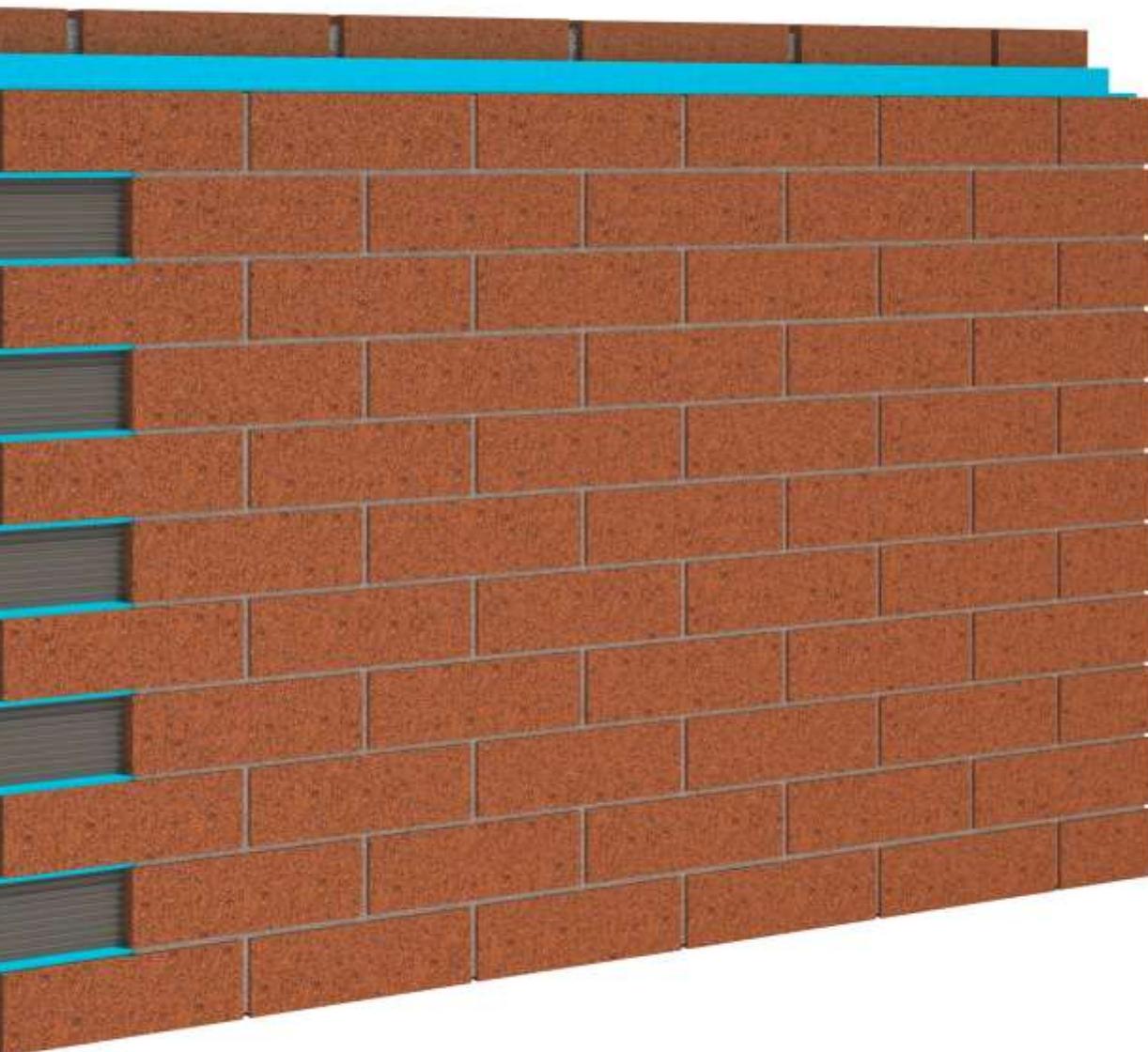
BBA Certificated



CONTENTS

CANDIWALL INSULATED BRICK SLIP SYSTEM





Contents

- 4 What's Important about Candiwall
- 5 The System
- 6 Candiwall Details
- 7 Candiwall Technical Information
- 8 How Candiwall Works
- 10 Candiwall Gallery
- 11 Exclusive Candiwall Brick Slips
- 19 Candiwall Accreditation



Welcome to Candiwall.

You will see from the information given in this brochure that the Candiwall Insulated brick slip system is easy to use, and has many advantages over the competition.

Here are just some of the important points that make Candiwall so interesting:-

- Extruded Polystyrene Board has very, very low water absorption. This means that the thermal insulation values are maintained and the transference of damp is virtually eliminated.
- Lap jointed boards mean that thermal performance is maintained across the entire façade where Candiwall is used.
- No “secondary” layer to the insulation board. This eliminates the risk of delamination leading to catastrophic system failure.
- No need for taping joints between one board and another thus speeding up installation. This makes it easy to use and saves money.
- Specially formulated adhesive allows slips and boards to be installed even in damp conditions.
- Thermal conductivity of 0.035 W/mK
- Available in 65mm standard track or 50mm track to order.
- Thicknesses from 30mm to 120mm available – 30mm board with 65mm track is held in UK stock holding. Other thicknesses and track sizes are available direct from the factory.
- Will accept manufactured or cut Brick Slips up to 25mm thick. This means you can use almost any brick with Candiwall. We offer a brick cutting service to cut your own bricks in to slips should this be required.
- BBA Certified.
- 1250mm x 600mm Board size is easy to handle.
- Full technical installation and handling training available.
- There is a network of trained, professional installers enabling work to be undertaken in many areas of the UK.



Candiwall is an extruded polystyrene brick cladding system that enables you to use real clay brick slips to create an insulated brick façade. You will find it suitable for new build, renovation, refurbishment, and modular off-site construction projects. In fact, you can use it in a very wide variety of projects.

In simple terms, the Candiwall system comprises a unique and patented extruded polystyrene insulation board (XPS) specially prepared to accept brick slips. Grooves, or tracks as they are commonly known, are formed in the factory on to the face of the board, making the installation of slips both quick and easy. No special skills are required to use the system, which means that you can save money by not having to employ hard to find and expensive brick-layers to create a fabulous façade.

Candiwall can be attached to masonry, timber frame, lightweight steel frame, SIPS and many other substrates and build types. If you would like to discuss your project, why not get in touch and we will help all we can.

The system comprises Patented Candiwall XPS Boards; Specially formulated Candiwall Adhesive along with mechanical fixings either for masonry or timber substrates.



THE SYSTEM

CANDIWALL INSULATED BRICK SLIP SYSTEM

DETAILS

CANDIWALL INSULATED BRICK SLIP SYSTEM



Everything you need... all in one place.

Whether your project is commercial, domestic, new-build, renovation or refurbishment, Candiwall has all you need, all in one place.

You can buy the full system complete with our own range of brick slips, or you can buy just the Candiwall XPS Board, Candiwall Adhesive and fixings. If this isn't quite right for you, we can even offer mainland UK customers a brick cutting service. This gives you ultimate flexibility in that you can achieve virtually any brick finish you like. Whatever

level of purchase you make you can rest assured that the finished job will be indistinguishable from a solid brick wall.

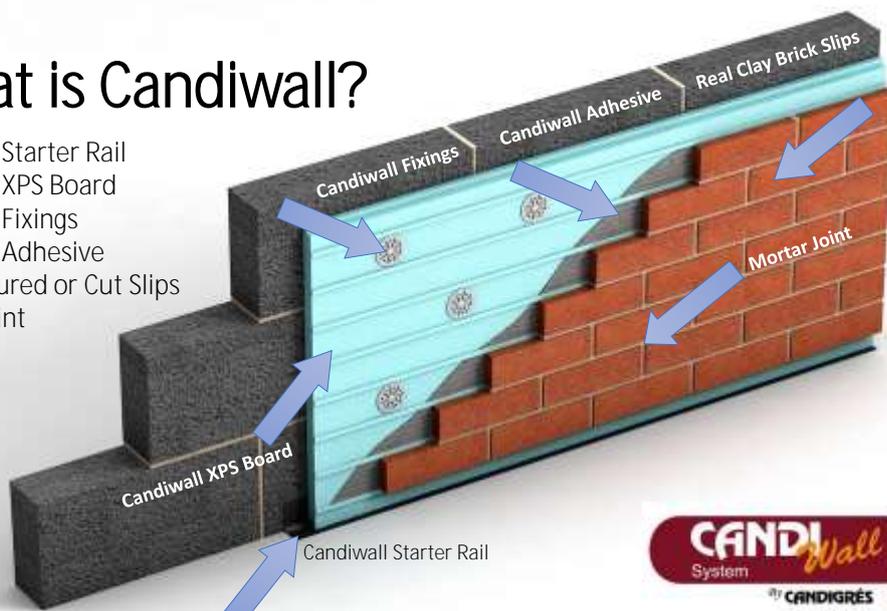
The whole Candiwall range of brick slips can be seen on the Brick Slips pages of this brochure and in more detail on our website. There is plenty of choice on offer... reds, greys, buffs and browns, textured or smooth finishes. Details are on pages.....



Our BBA certificate is also downloadable from our website.

What is Candiwall?

1. Candiwall Starter Rail
2. Candiwall XPS Board
3. Candiwall Fixings
4. Candiwall Adhesive
5. Manufactured or Cut Slips
6. Mortar Joint



Thicknesses available:-

30mm; 40mm; 50mm; 60mm; 80mm; 100mm; 120mm

Thermal Performance:-

Candiwall is an extruded polystyrene product with excellent thermal performance. It has a very low water absorption rate which means that thermal performance is retained much longer than some other materials.

Thickness	Conductivity W/mK	Thermal Resistance
30mm	0.034	0.588
40mm	0.034	0.882
50mm	0.035	1.143
60mm	0.035	1.714
80mm	0.035	2.222
100mm	0.036	2.632
120mm	0.038	3.158

Candiwall XPS Board Size — All board thicknesses

1250mm wide x 600mm high

Track Sizes— All board thicknesses

Standard UK track is 65mm—will accept standard UK sized slips 65mm high
50mm Narrow track format is available on special order.

Please refer to the Candiwall Board Technical Data Sheet on our website.

Adhesive — All board thicknesses

Wet applied specially formulated adhesive. This enables adhesive application in damp conditions. Please refer to the two adhesive Technical Data Sheets available on our website for more detail.

Mechanical Fixings — All board thicknesses

- Spikes and nylon sleeves for masonry
- Screws and nylon sleeves for Timber, SIPS, Metal Frame and other substrates.

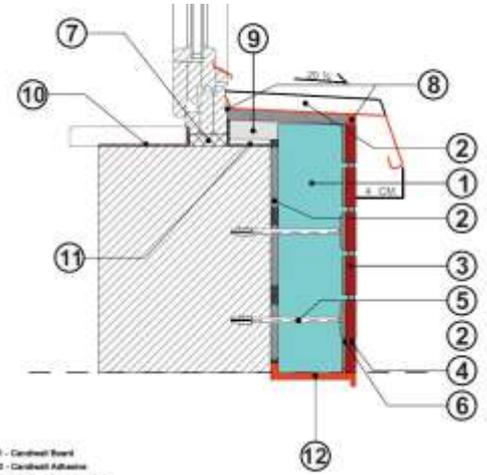
Please refer to the fixings Technical Data Sheet on our website for details.

TECHNICAL

CANDIWALL INSULATED BRICK SLIP SYSTEM

HOW IT WORKS

CANDIWALL INSULATED BRICK SLIP SYSTEM



- 1 - Candiwall Board
- 2 - Candiwall Adhesive
- 3 - Candiwall Brick Slip/Tile
- 4 - Candiwall Dred
- 5 - Candiwall Plaster Slava
- 6 - Horizontal Siding
- 7 - Polyethylene Foam
- 8 - Expandable Stripe for Noise Blocking
- 9 - Thermal Insulation for Window Sill
- 10 - Steam-Tight Plaster Sheet
- 11 - Steam Permeable Plastic Sheet
- 12 - Candiwall Starter Track

SUBSTRATE TYPE		CANDIWALL	
CONCRETE AND COMMON BRICKS	75 (ST)		CONCRETE Detail of the solution for a steel sheet window sill DATE: _____ Scale: 1:1
CONCRETE AND HOLLOW BRICKS	100 - 110 (ST)		

Like all great ideas, it's all very straight forward. The beauty of the Candiwall System lies in an easy to use format that beats the competition hands down. In six easy stages it is possible to create an insulated facade that, when completed, looks and feels like precision brickwork.

When you decide to use Candiwall there are installation options available. You can engage a specialist installer, or if you are a construction professional, we can train you or a team of your own operatives in how to attach Candiwall to all main substrate types. Perhaps you are an enthusiastic self-builder with an aptitude for practical matters, again we can train you and help you through the installation process. In the Download Section of our website, you will find an installation manual that explains in fine detail what needs to be done to create a great job.



There are 6 (or 7) basic steps all of which are explained in our free, downloadable Installation Manual.

This sequence shown here relates to the renovation of a previously rendered facade.



You will find more detail on how to do all this when you visit our website and download the Installation Manual from the Technical Download page.

HOW IT WORKS

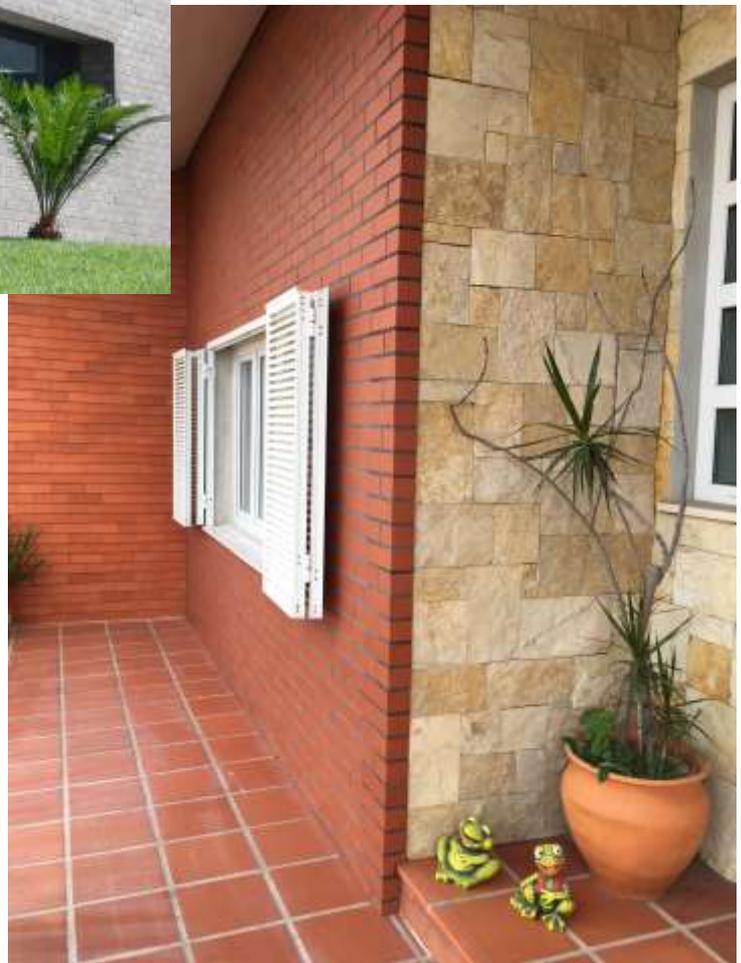
CANDIWALL INSULATED BRICK SLIP SYSTEM

GALLERY

CANDIWALL INSULATED BRICK SLIP SYSTEM

Whether your project is Commercial, Housing, Self-Build, Renovation, single build, multiple build, modular, off-site or just a DIY make-over, Candiwall is a great way to give you a lasting façade that is natural, durable and could save you money.

Here are just a few examples of jobs that have been completed using Candiwall.





GALLERY

CANDIWALL INSULATED BRICK SLIP SYSTEM

GALLERY

CANDIWALL INSULATED BRICK SLIP SYSTEM





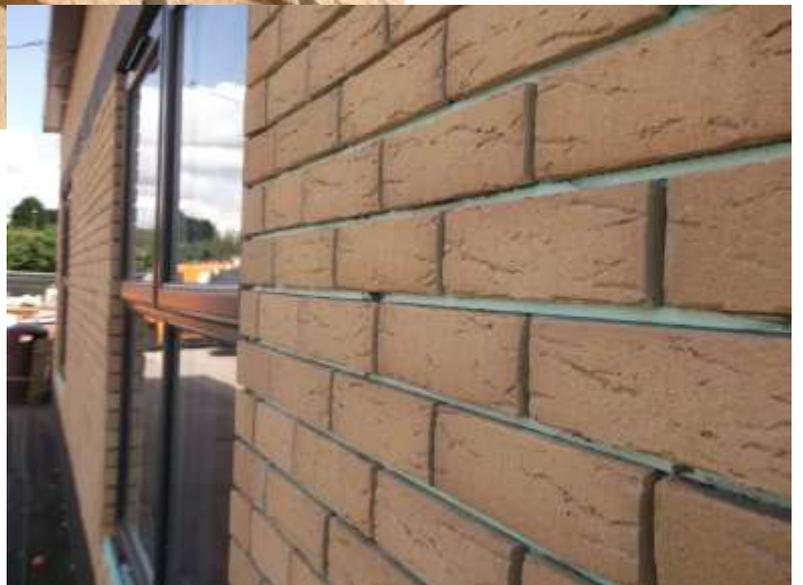
GALLERY

CANDIWALL INSULATED BRICK SLIP SYSTEM

GALLERY



CANDIWALL INSULATED BRICK SLIP SYSTEM





By **CANDIGRÉS**



CANDIWALL INSULATED BRICK SLIP SYSTEM WHAT'S INCLUDED

For each square meter that you order you will receive:-

- 1.3 Candiwall Boards 1250mm x 600mm
- 6kgs of Candiwall Adhesive (supplied in 25kg bags)
- 10 Mechanical fixings suitable either for masonry or timber — please tell us which ones you need.
- 1 Candiwall Routing tool *per order.*

Optional extras

- Starter Rail
- Pointing Mortar

BRICK SLIPS

CANDIWALL INSULATED BRICK SLIP SYSTEM

Exclusive to Candiwall

The Forest Range



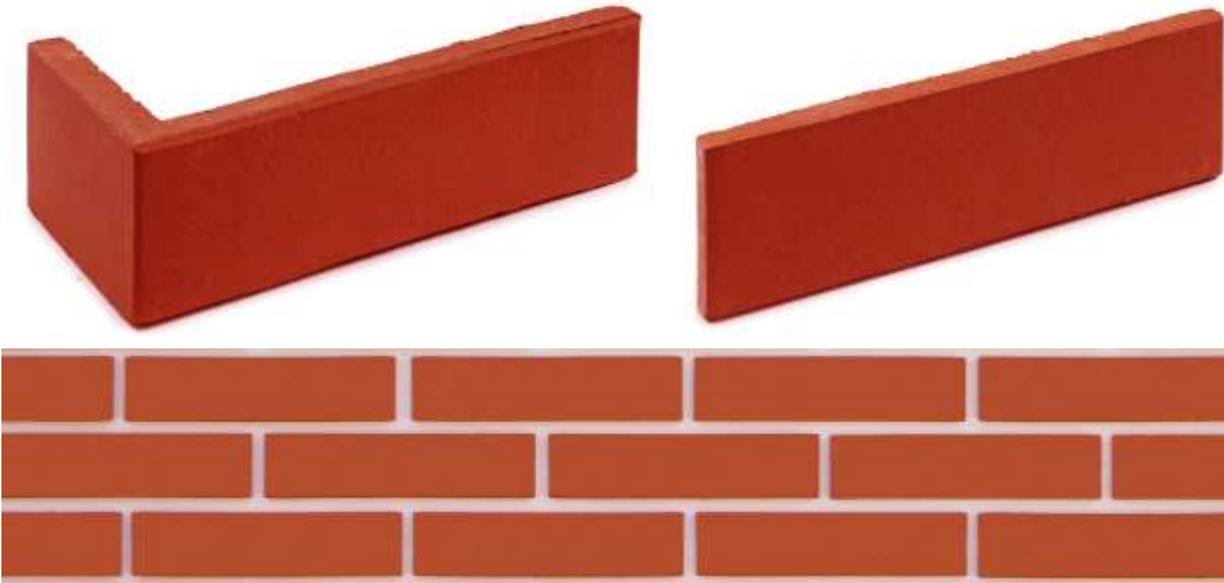
The Forest Range of Brick Slips is made exclusively for Candiwall. These purpose made, high quality brick slips are fired at 1100°C using natural clays and no pigments. You can choose from smooth and textured finishes and a wide options of colours.

All slips are available in two sizes 220mm x 14mm x 65mm high or, for a more contemporary feel, 220mm x 14mm x 50mm high.

Candiwall is of course also made to 65mm or 50m gauge to suit.

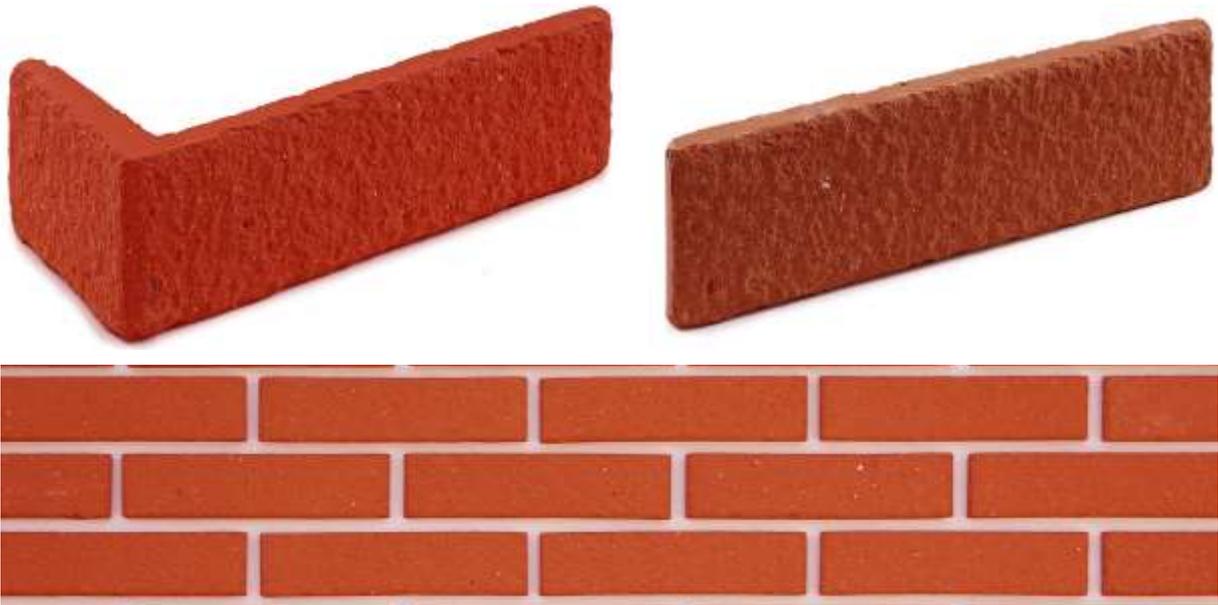
50mm slips are available for special order only.

The Sherwood Smooth Red



The Sherwood Smooth Red has a warm ambience with a contemporary, smooth finish. Clean, crisp, sharp lines give an attractive feel that looks great in conjunction with other contemporary construction materials. It can be used very effectively for interior projects as well as out-side.

The Dallington Red



One of our most popular choices, the Dallington Red offers a warmth of colour and a rustic textured finish that lends itself to most build types. Whether your project is contemporary architecture or of a more traditional or classical nature, the Dallington Red has proved to be very popular.

BRICK SLIPS

CANDIWALL INSULATED BRICK SLIP SYSTEM

The Burnham Smooth Buff



The Burnham has a great, modern feel to it with a subtle mix of slightly varying shades and a smooth contemporary surface. Excellent in contrasting areas and adding accents to other colours, it works well with almost any other colour of brickwork.

The Brightstone Buff



This Textured buff / cream slip is a great choice for those who want to create a stunning light coloured facade. The textured finish gives a contrast of light and shade, reflecting light in differing angles to give a very interesting change to normal flat walls.

The St. Leonards Multi Smooth



The St Leonards Multi Smooth is a buff/ brown mix that is contemporary in style. Great for interior and exterior settings, the smooth clean lines are stylish and versatile giving a modern appearance that is definitely on trend. The smooth texture gives a very modern feel that works well in any situation.

The New Forest Mixture

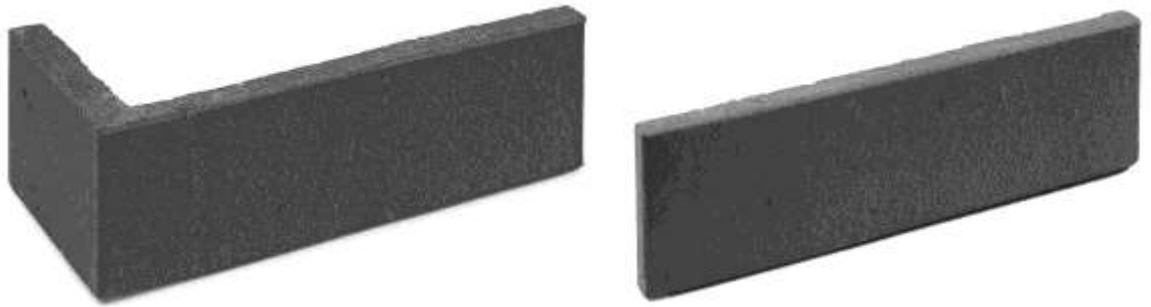


The New Forest Mixture is an attractive blend of brown and buff colours with a textured finish. Buff colours can give that earthy, natural look that could be just right for you. Some of our customers tell us that that buff bricks offer a pleasing, contemporary look for an interior setting too.

BRICK SLIPS

CANDIWALL INSULATED BRICK SLIP SYSTEM

The Glenmore Smooth Grey



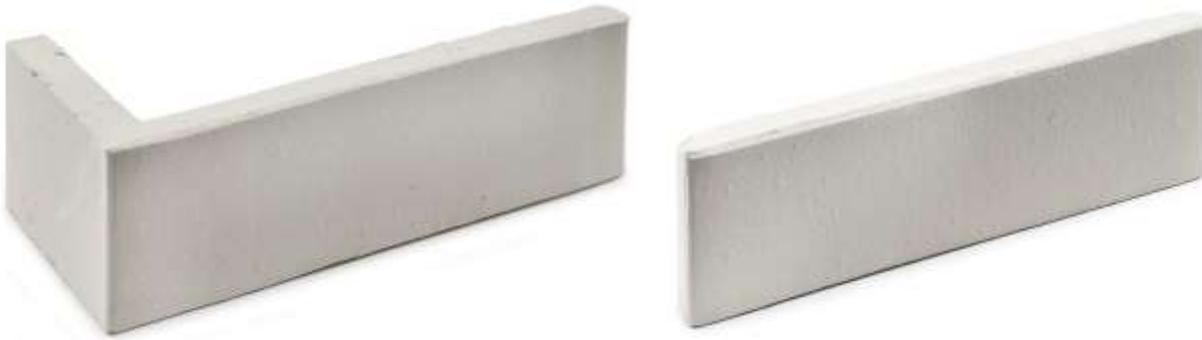
The Glenmore is a contemporary mid grey and right on trend. The smooth face and sharp lines of the Glenmore are so attractive, that it is fast becoming the first choice for many Interior Designers and Architects.

The Grizedale Grey



With a mid grey colour that is so much in demand, this style of brick slip is becoming is very popular. The texture of the Grizedale accentuates the light and shade that is so enviable in exterior locations and gives an interesting finish when used inside. When pointed with a contrasting mortar, the facade can certainly give you that Wow Factor.

The Argyll Smooth White



The Argyll Smooth White is a truly great smooth white brick. Not at all shiny like a tile, a truly great choice for interior and exterior applications. The Argyll will grace any setting giving a smooth, clean finish that is so desirable in contemporary living.

The Caledonian White



The Caledonian White is an attractive alternative to smooth white tiles. This aesthetically pleasing white brick will create attractive finishes for both interior and exterior applications. The specially created sand-blasted texture is contemporary and subtle as it refracts light in all directions giving a very desirable clean look with just that bit of wow factor.

BRICK SLIPS

CANDIWALL INSULATED BRICK SLIP SYSTEM

Frequently Asked Questions



In this section, we are pleased to help you answer some of the questions that may be in your mind as you make your product selection and work out how best to use Candiwall. Please do bear in mind that no two builds are exactly the same . Custom solutions are often available and of course we will be pleased to help you on a personal basis, either on our technical help line or better still, with a site based consultation. You can also get in touch with us on the phone or by sending us an e-mail to sales@candiwall.net not forgetting to attach any drawings you may wish to discuss.

What makes Candiwall unique?

Candiwall is a fully integrated Brick Slip Carrier System made from Extruded Polystyrene (XPS) and includes all requisite mechanical fixings and comes complete with a uniquely formulated specialised adhesive. It has no plastic carrier sheet which eliminates a potential failure risk. It is very easy to use and has excellent thermal performance with almost no water absorption, which means that once installed, Candiwall will continue to perform at the optimum level for the life of the building.

Where can I use it?

Pretty much anywhere. Candiwall can be used successfully both internally and externally on commercial or residential projects of all types. New Builds, Refurbishments and Renovations using Timber Frames, SIPs, Steel Frames or Masonry construction methods, Candiwall is a versatile and easy to use system that works well in many situations.

Does it have BBA Certification?

Yes – for masonry applications. Certificate number 16/5317 available online at www.candiwall.net

What is the maximum height for safe use?

Candiwall is certificated for use on buildings up to but not exceeding 18 meters in height. We do not recommend that it be used above this limit. It is further recommended that the designer refers to the relevant test data for further guidance on wind-load resistance for exposed locations. Details available on request.

The system has been successfully tested for fire performance and further information is available within these FAQs.

Has Candiwall been tested for fire performance?

Yes it has, and it has a certificate which can be downloaded on our website www.candiwall.net/downloads It achieves Classification B-s1-d0. The classification was carried out in accordance with clause 11 of EN-13501-1 + A1 2009 Sept 2009 The test was carried out using 120mm Candiwall attached to a timber substrate using both 65mm high and 50mm high fully pointed brick slips from the standard Candiwall range.

Is Candiwall a pre-fabricated panel?

No, it comes as kit of parts which is site installed using a specially formulated adhesive and mechanical fixings. A full installation manual is available on-line to help, but if you would like to use a registered installer, do please get in touch and we will give you names of skilled tradesmen happy to work in your local area.

What about thermal performance?

Candiwall is made from Extruded Polystyrene which has a thermal conductivity of 0.034W/mK or 0.035W/mK depending on thickness of material, giving an R value of 0.588(m²)/W at 30mm thickness and 3.158 (m²K)/W at 120mm thickness. Please be aware that as Candiwall is virtually impervious to water this performance does not deteriorate over time, unlike some other materials. Further details can be found in our online brochure or in the relevant downloads on our website www.candiwall.net

How is Candiwall Installed?

Using a straight forward step by step method, Candiwall can be installed on to a variety of substrates. Brief details are available in our online brochure with further, full details in our installation manual again available on line at www.candiwall.net/downloads If you would prefer a “hands-on” approach to learning we offer regular training courses held at our facilities in East Sussex, or perhaps an on site “tool-box” talk or a CPD style presentation might suit you best. If you would like one of these “face to face” options, just let us know and we will help all we can.

Can I see a sample?

Of course. General samples are roughly “A4” size and are made from 25mm Candiwall. An example of a slip is adhered to the board just so you can see how it all works. Don't forget that we have full information on our website www.candiwall.net as well.

How many slips do I need?

Because Candiwall is available in two track heights there are two answers to this question. If you are using special order **50mm high gauge** you will need **76 slips per m² and 17 corner slips per lin mtr.** If you are using the more popular **65mm high standard UK gauge height** you will need **60 slips per m² and 14 corner slips per lin mtr.** This all assumes that the slips are standard size 215mm or 220mm long.

What are your normal delivery times?

Most orders are delivered by pallet carrier. UK stock deliveries are usually made within 2 weeks from receipt of payment. Special orders can take up to 6 weeks if the material has to be made. If you are ordering brick slips as well as Candiwall items then it may be possible to deliver all the goods at the same time on one of our own vehicles. Please get in touch to discuss any special requirements such as tail lift deliveries.

Is there a need for a cavity in the wall design?

The Candiwall BBA certification is based on application to masonry without a cavity. As part of our continuous product development programme, we are looking at the necessity for a cavity in the wall design. It is our intention is to carry out an additional product test for application without a cavity on a timber frame on the basis that existing tests and inherent product design render XPS virtually impervious to water. All existing weathertightness tests successfully demonstrate that Candiwall will withstand water ingress and a cavity is not necessarily required.

However certain warranty providers, eg NHBC and others currently insist on the inclusion of a cavity to allow drainage in the event of water ingress from poor detailing/ installation at interfaces or in the event of interstitial condensation. The designer should therefore satisfy themselves that the system and preferred method of wall construction is acceptable to the project-specific warranty provider.

How long will it last?

The BBA certificate gives an expected life of at least 30 years. (The longest possible under current BBA tests) Candiwall was subjected to a rigorous accelerated aging test and showed no signs of deterioration.

Again, as part of our on-going product development, independent tests are being carried out to further verify this result.

Any such lifetime warranty assumes good building design, good site workmanship during installation and reasonable levels of building maintenance.

What about matching slips and the bricks I want?

This is where Candiwall can really help, you are not locked in to any specific brick slip. So long as the slip you are want is 50mm or 65mm high, you can use pretty much anything you like. Candiwall will accept manufactured or cut slips. This means that if you are adding an extension to an existing property, so long as a matching brick can be obtained, even if it is not available as a slip, it can be cut and used with ease with the Candiwall System.

Can I get everything I need from one place?

Yes, you can. We offer Candiwall starter rails, bagged pointing mortars in the most popular colours, Pointing Guns, Pointing Bags. Just let us know what you need and we will help, if we can - even down to special length fixings if required. Don't forget that you get a routing tool with each order.

How do I get a price?

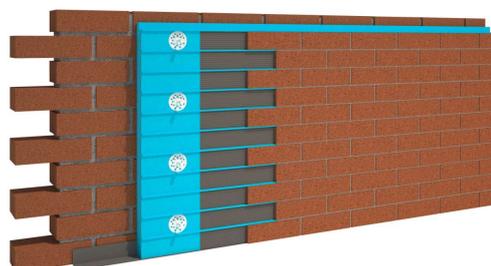
By getting in touch with us by e-mail sales@candiwall.net We will need to know the overall area in m², the thickness of board you intend to use, the substrate you are fixing to; e.g. timber frame, SIPS, steel frame or masonry. We will also need the site address and any special delivery requirements. If you would like a quote for Candiwall slips – we will also need to know how many 90 degree corner slips you will need.

How is it supplied to site & where do you deliver?

Products come to site in a co-ordinated delivery. Candiwall boards, adhesive and fixings all come shrink-wrapped on pallets. Please let us know if you need a mechanical offload delivery or whether you have “on site” mechanical off-loading capability. We generally deliver to the UK mainland but can deliver to pretty much anywhere.

Why should I use Candiwall?

- Unique, specially formulated adhesive system that allows application in damp conditions and a wide temperature range. Speeds application – saves money.
- Easy to handle board size of 1250mm x 600mm.
- Lap jointed XPS boards - No need to use sticky tape to join boards together on site.
- BBA Accreditation for masonry applications
- Available in standard 65mm or 50mm gauge (50mm gauge to special order)
- Candiwall XPS is virtually impervious to water – no loss of insulation performance over time and transference of damp is eliminated.
- No secondary plastic applied track to take slips. This eliminates the risk of adhesive failure of the facing material and aids adhesion of slips to the Candiwall XPS board.
- Thermal conductivity of 0.035W/mK
- Thicknesses from 25mm to 120mm available. 25mm board with 65mm gauge available from UK stock.
- Accepts manufactured or cut slips up to 25mm thick at 65mm or 50mm high.
- Full technical back-up available through website downloads and site visits, if required.



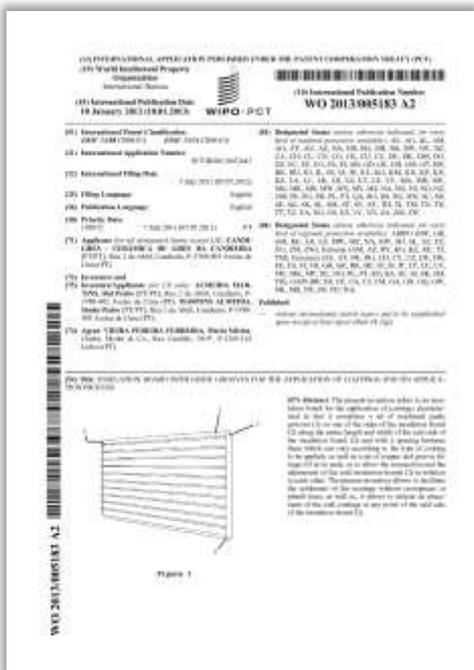


Candiwall carries BBA Accreditation for fixing to masonry substrates. With continual research and development it is envisaged that the scope of the BBA accreditation will expand over the coming years to encompass fixing to timber frame and steel frame structures.

Full BBA Certificate available on request.

Fire test certificate giving the Candiwall System a fire classification of Bs1 d0 when installed in accordance with our recommendations and fully pointed. This classification is one of limited smoke production and no falling droplets of flame.

Full test report available on application.

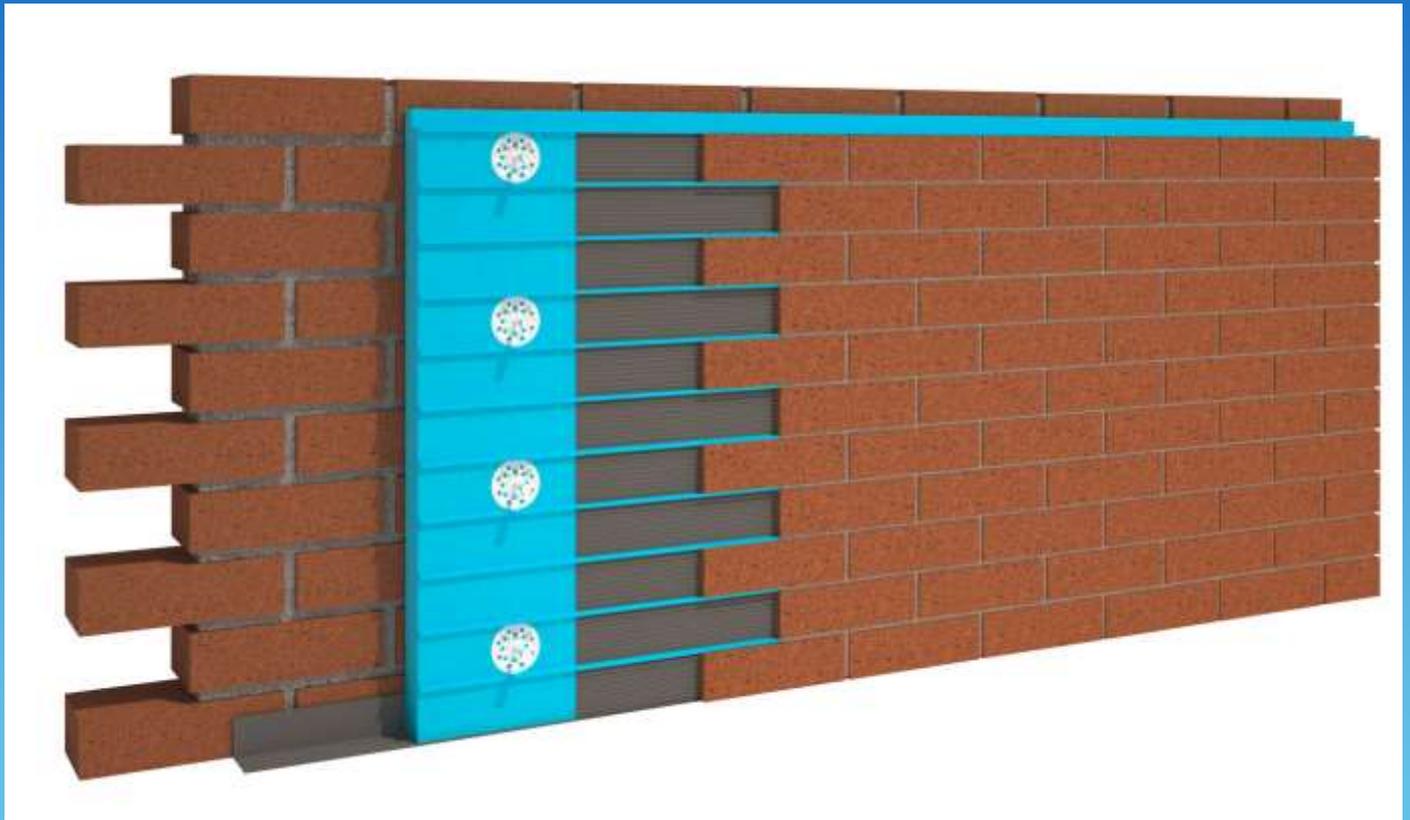


Patented product with the World Intellectual Property Organisation.

Full patent report available on request.

ACCREDITATION

CANDIWALL INSULATED BRICK SLIP SYSTEM



CANDIWALL

INSULATED BRICK SLIP SYSTEM

DKM Brick Cladding Ltd

Unit 18—20 Bluebell Business Estate

Lewes Road

Sheffield Park

Uckfield

East Sussex TN22 3HQ

Tel: 01825 723404

E: sales@candiwall.net

www.candiwall.net

