NATURAL STONE CLADDING RANGE
CREATE A BEAUTIFUL NATURAL STONE WALL FINISH WITH LBS Z-STONE & STONE VENEER.
• Quick and easy to install. No specialist skill required.
• Extremely cost-effective compared to traditional stone masonry.
• Minimal wastage. No mess, no fuss.
• Available in a wide range of natural stone finishes.
• Suitable for both interior and exterior application.
NATURAL STONE CLADDING RANGE

CONTENTS

Z-Stone Cladding 04
Penrhyn Bangor Blue Slate Z-Stone 06
Black Slate Z-Stone 08
Blue Diamond Z-Stone 09
Nordic Stone Z-Stone 10
Quartz Z-Stone 11
Granite Z-Stone 12
Multi-Coloured Slate Z-Stone 13
Scandinavian Mix & Icelandic Grey 14
Contemporary Z-Stone 16
Stone Veneer Range 18
Z-Stone Fitting Instructions 20
Stone Veneer Fitting Instructions 22

Installation video guide at LBSproducts.com
THE BEAUTY AND CHARACTER OF NATURAL STONE WILL ENHANCE YOUR HOME

Z-Stone is available in a range of natural slate and stone finishes across two formats: Regular and Sky Panel. Suitable for both internal and external use. (45-50mm thick)

<table>
<thead>
<tr>
<th>REGULAR / SKY PANEL</th>
<th>Range available with and without fixing clips, see page 5 for details.</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Penrhyn Bangor Blue Slate</td>
<td></td>
</tr>
<tr>
<td>(Available in Sky Panel only)</td>
<td></td>
</tr>
<tr>
<td>• Black Slate</td>
<td></td>
</tr>
<tr>
<td>• Quartz</td>
<td></td>
</tr>
<tr>
<td>• Scandinavian Mix</td>
<td></td>
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<tr>
<td>• Blue Diamond</td>
<td></td>
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<td>• Nordic Stone</td>
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<td>• Granite</td>
<td></td>
</tr>
<tr>
<td>• Icelandic Grey</td>
<td></td>
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<tr>
<td>• Multi Slate</td>
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</tr>
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Thinner and lighter, our Contemporary Z-Stone is perfect for use in bathrooms, wet rooms or for feature walls. (20-25mm thick)

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<tr>
<th>CONTEMPORARY RANGE</th>
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<tbody>
<tr>
<td>• Forest Marble (Honed)</td>
</tr>
<tr>
<td>• Forest Marble (Riven)</td>
</tr>
<tr>
<td>• Black Slate (Thin)</td>
</tr>
<tr>
<td>• Black Slate (Thick)</td>
</tr>
<tr>
<td>• Rustic Slate (Riven)</td>
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<td>• Blue Diamond (Thick)</td>
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stone® is available in 3 formats:

- Regular Panel
- Sky Panel
- Contemporary

Regular Panel format allows every piece to be butted together to form an interior corner if required.

Sky Panel format allows every piece to be butted together to form an interior corner if required. It also has a built-in clip for added fixing security. NB: The Sky Panel format must be used above heights of 3 metres.

Contemporary format uses single size pieces in addition to separate long and short corners. Only 20mm thick. For interior use.

SUITABILITY:
- Exterior design feature
- Chimney breasts/fireplaces
- Water features
- Front porch areas
- Timber frame construction

ACCESSORIES:
- LBS adhesive (15kg bag covers 3m²)
- Magnesium Board
- Sealer
- Colour Enhancer
- Cement Away Cleaner *

CLEANING:
- Do not use hydrochloric acid as it can cause minerals present in the stone to react.

MAINTENANCE:
- None required, however, in areas of high traffic we offer a range of sealers and cleaners if required.

Installation video guide at LBSproducts.com
PENRHYN BANGOR BLUE Z-STONE

AVAILABLE IN SKY PANEL ONLY (45-50mm thick)

PENRHYN BANGOR BLUE is universally regarded as being the best quality slate in the world. It is quarried from slate deposits in North Wales that were formed 600 million years ago and is the traditional slate that has been used in Ireland for many centuries.

Bangor blue slate has a distinctive purple heather blue colour, and it can be seen on many of the country’s landmark buildings. This stone is synonymous with quality architecture and building, and is highly sought after all over the world.
The Penrhyn Z-Stone panel combines real pieces of Bangor Blue slate quarried in Wales with the convenience and cost saving of a ‘ready to fit’ panel. Bangor Blue Z-Stone can be used to create a warm timeless look that melts into the surrounding landscape, or it can be teamed with modern materials to create a contemporary design.

Each Sky Panel has an in-built clip that provides an extra fixing point.

NB - x12 stainless steel screws and x12 wall plugs per m² will be provided with LBS Penrhyn Z-Stone Cladding in Sky Panel only.
BLACK SLATE Z-STONE

AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

SIMILAR IN APPEARANCE TO IRISH BASALT, BLACK SLATE Z STONE IS ONE OF THE MOST POPULAR CHOICES IN THE LBS RANGE.

ITS WARM GREY AND CHARCOAL TONES MAKE IT A FIRM FAVOURITE ADAPTABLE TO ANY BUILD, MODERN OR TRADITIONAL. FROM A SMALL FEATURE WALL, TO A LARGE COMMERCIAL BUILDING, BLACK SLATE CAN BE ADAPTED TO SUIT ANY DESIGN.
BLUE DIAMOND
Z-STONE
AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

ONE OF THE MOST ATTRACTIVE STONES IN THE RANGE; BLUE DIAMOND COMBINES STEELY BLUES, SHIMMERING GREYS AND OCHRE TONES TO CREATE A NATURAL STONE PANEL WITH BAGS OF CHARACTER. ITS LIGHT NEUTRAL COLOURS AND ACCENTS OF BROWN MAKE IT THE PERFECT CHOICE FOR AN INTERNAL WALL OR FIREPLACE. USED EXTERNALLY THE CHUNKIER STONE PIECES GIVE A VERY NATURAL FINISH AND AS THE STONE WEATHERS OVER TIME IT WILL MELLOW TO CREATE A FINISH REMINISCENT OF DONEGAL SLATE.
NORDIC Z-STONE

AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

SIMILAR TO SCANDANAVIAN STONE, NORDIC STONE IS ONE OF THE LIGHTER COLOURED PANELS IN THE Z –STONE RANGE. WITH ITS COOL MIX OF GREYS, GREENS, AND WARM BEIGES IT OFFERS SOMETHING LIGHT IN COLOUR BUT MORE CONTEMPORARY AND UNUSUAL THAN CLASSIC QUARTZ OR GRANITE. IT IS LIGHT ENOUGH TO USE INSIDE THE HOME AND IS A POPULAR CHOICE FOR CHIMNEY BREASTS OR FEATURE WALLS.
QUARTZ Z-STONE

AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

THE BLEND OF NATURAL CREAM, BEIGE AND YELLOW IN OUR QUARTZ Z-STONE ADDS INSTANT WARMTH AND CHARM TO ANY SCHEME OR BUILDING. ARCHITECTS FAVOUR THE FLEXIBILITY OF THIS NATURAL PRODUCT, WHICH CAN BE USED TO ENHANCE BOTH TRADITIONAL AND MODERN SCHEMES. THE RICHNESS OF THE COLOURS WILL ENHANCE ANY HOME INSIDE OR OUT.
COMMONLY ASSOCIATED WITH QUALITY AND PRESTIGE, GRANITE REMAINS THE CORNERSTONE OF LUXURY BUILDING AND DESIGN. THE INSTANTLY RECOGNISABLE AND HIGHLY ATTRACTIVE TEXTURED FINISH OF THIS NATURAL STONE, MAKES IT IDEAL FOR TRADITIONAL SCHEMES. SIMILAR IN APPEARANCE TO MOURNE GRANITE ITS WARM YELLOWS AND CREAMS MAKE IT PERFECT FOR USE INDOORS. A TIMELESS STONE THAT WILL ENHANCE ANY BUILD.
MULTI-SLATE
Z-STONE

AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

A DESIGNER’S DELIGHT, THIS BEAUTIFUL STONE CATCHES THE LIGHT TO REVEAL AN ARRAY OF GREY, RED, AND PURPLE SLATE. A VERY WARM AND NATURAL CHOICE OF Z-STONE, IT IS EQUALLY AT HOME IN BOTH RURAL AND URBAN SETTINGS. ITS RANGE OF COLOURS OPEN UP OPPORTUNITIES WITHIN THE HOME, TO CREATE A MOOD THAT SUITS YOUR DESIGN, WHETHER IT’S A COSY AMBIENCE YOU WANT, OR SOMETHING CHIC AND MODERN.
SCANDINAVIAN MIX
Z-STONE
AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

SAY HELLO TO THE SCANDINAVIAN MIX. ON-TREND, THIS SHADE IS A MIX OF GREEN, GREY & BLACKS. A RANGE OF BENEFITS AND PERFECT FOR EXTENSIONS, FIREPLACES, PORCHES AND OTHER DISTINCTIVE PARTS OF YOUR HOME.

ICELANDIC GREY
Z-STONE
AVAILABLE IN REGULAR OR SKY PANEL ONLY (45-50mm thick)

OUR ICELANDIC GREY Z STONE IS A CONTEMPORARY COLOUR. NATURALLY ATTRACTIVE, THIS WILL ADD SOME DEFINITION AND CHARACTER TO YOUR SPACE. THE SUBTLE COLOUR WILL COMPLIMENT MANY ARCHITECTURAL STYLES.
LBS natural stone products add texture and contrast to enhance any home.
THE CONTEMPORARY RANGE OF Z-STONE IS MADE FROM NATURAL SLATE AND STONE PIECES BONDED TOGETHER WITH A POLYMER RESIN. THESE NEW PANELS ARE A LIGHTWEIGHT ALTERNATIVE TO THE STANDARD CONCRETE BACKED Z-STONE. THEY ARE IDEALLY SUITED FOR INTERIOR USE, IN AREAS SUCH AS WET-ROOMS.

*Contemporary Z-Stone is NOT to be fitted on the inside of a fireplace.
CONTEMPORARY Z-STONE

Forest Marble (Honed)
A bold combination of blacks and whites, honed to a smooth polished finish.

Forest Marble (Riven)
A riven variation of the Forest Marble pattern with a more rugged textured appeal.

Rustic Slate (Riven)
A traditional combination of thick deep reddish rock and grey pieces combined to give a natural baked style.

Black Slate (Thick)
Strips of Black Slate with a split face finish to give a natural, simple, but distinctive look.

Black Slate (Thin)
Thin pieces of black slate are stacked on this panel to give an eye catching appeal.

Blue Diamond (Thick)
Fresh and modern, these thin pieces of light steely blue/grey and ochre tones have been fixed in a staggered design providing a modern finish.

Panels are 600mmx150mm (20mm nominal thickness), with long and short corners to suit.
CREATE A BEAUTIFUL NATURAL STONE WALL FINISH WITH LBS STONE VENEER.

At only 30mm thick, these individually pre-cut natural stone pieces can be fitted and shaped as required to give a finish very similar to traditional masonry. The benefit over traditional quarry stone is that there will be very little wastage and there is no additional foundation required.

The stone can be fitted relatively quickly in either a dry build or grouted finish. Although not essential, it is recommended that stone veneer is fitted by a tradesman with some experience of fitting similar products.

BENEFITS

• Cost saving on labour and material compared with traditional masonry
• Made from natural stone only 30mm thick – no need for special sills
• Achieve your desired look from 4 stunning colour options - no lines
• No additional fixings over heights of 3m
• Fixed external corners available
• Maintenance free
BLUE DIAMOND
STONE VENIER

One of the most loved stone mixes in the LBS range - Blue Diamond combines a mix of steely blue grey and ochre stones.

The Blue Diamond stone veneer pieces have an attractive cleaved face that give them a very natural ‘traditional masonry’ look. The mix of stones allows the house builder to create their own desired finish.

JERUSALEM SANDSTONE
STONE VENIER

With warm golds and yells, Jerusalem Sandstone is the ideal choice for rustic and traditional farmhouse style properties. Full of warmth and character it is perfect for use inside.

The natural split face of the Jerusalem Sandstone veneer gives a very natural hewn finish that is hard to discern from traditional stone masonry once fitted.

BLACK LIMESTONE
STONE VENIER

The neutral greys and graphites of Black Limestone Veneer are the perfect base for any house design. The stone will add a natural warmth to the build without overwhelming it.

Black Limestone can be used for traditional style builds or can be teamed with more modern materials and structures to bring it right up to date.

DONEGAL MIX
STONE VENIER

The light and dark tones of the Donegal Mix is a beautiful earthy mix. They are sold in a mix of random sizes around 30mm thick. They can be fitted in any pattern and larger pieces can be cut and dressed to suit. This veneer will make a great cladding option for old stone cottages or adding an old stone look to a new building.

Dimensions (nominal)
Stone Veneer is sold in pallet lots of 10 sqm. Each pallet contains a mix of rectangular/square pieces varying between 350 x 210mm and 150 x 80mm. Corners are sold separately.
FITTING INSTRUCTIONS FOR Z-STONE

1. The Z-Stone system comprises of: 2 panels at 600 x 220mm & 2 panels 325 x 220mm. Note: 4 x pieces per box. These can be used in most situations to achieve the desired finish. For special applications, i.e. curved or radial walling, please contact the LBS Technical Team.

1.2 Z-Stone will not require a foundation, as it is a self-supporting unit.

1.3 It is best to apply Z-Stone to a concrete block wall free from any coatings, i.e. Gypsum, loose plaster, paint, dust or debris. NB it is recommended if the outer leaf of blockwork needs to be waterproofed, then a scud plaster followed by a scratch coat (with waterproofing agent) be applied prior to the Z-Stone being fitted. The wall must be deemed sound to support weight in excess of 90kg per m². All new-build concrete substrates containing mortar must be constructed a minimum of 7 weeks prior to fitting Z-Stone cladding.

1.4 Always start by nailing a level timber batten along bottom of wall. Position this at a measurement that allows any cuts to be put in below batten when removed. You should usually leave the batten in place for a minimum of 48 hours.

1.5 First coat wall with LBS adhesive, using a notched trowel.

1.6 The use of pre made corners are required unless fitting to a straight wall. These can be used for all external corner applications, window and door returns. Z-Stone pre-made corners should be fitted first and you should alternate the long and short legs to give a broken bond effect so as not to show any joints within the vertical course of the Z-Stone. If a reduced size of unit has to be cut to finish the wall, always cut the Z shape joint, as this will give a seamless finish. (Straight cut joints will show when wall is completed). NB - It is good practice when fitting to use a mini cutting disc to remove any excess cement overspill from the panel edge to give a tighter joint, when fitted. Please exercise due care when using a mini cutter. *For Contemporary Z-Stone panel fit in broken-bond format as per traditional tiling methods.

1.7 The rear of the Z-Stone panel must also be coated with LBS adhesive, taking care not to spill over the edges, as this will cause adhesive staining when dry. Always tap into place with rubber mallet to insure sound contact between the panel and wall, and displace any trapped air pockets. There is no need to put any adhesive into the joints, as this is a dry joint product.

1.8 When the wall is over 3m high, you must use Sky Panel which has in-built stainless steel fixing clips. This offers additional support to the LBS adhesive. NB - LBS adhesive must always be used in conjunction with the in-built clip fixing system.

1.9 To secure the in-built clips, fold out from the reverse side of the panel. An 8-10mm hole must be drilled into the substrate and then secured with the stainless steel fixing screws and wall plugs supplied by LBS. NB - only 1 mech fixing per Z-Stone panel is required.

1.10 When fitting Z-Stone onto a timber frame construction, you must ensure that appropriate backing support is used. This must be guaranteed to support each Z-Stone product, weighing in excess of 90kg. This backing must be non-reactive to LBS adhesive to guarantee a secure bond.

Z-Stone must not be placed directly onto gypsum-based products, plasterboard, plywood or painted surfaces. In these instances, it is necessary to fix a cement-based board onto the wall. LBS strongly recommend that you seek advice from a qualified engineer prior to commencing any such work.
Where reveal detail is required at windows and door openings, all block work must be recessed by a minimum of 50mm, to allow for the return of Z-Stone back into the frames. Always check prior to fitting, so as the window and door openings will not be obstructed. Expansion tape is available to neatly close off any remaining gaps to give a neat and weatherproof finish.

Z-Stone may not be returned on the underside of a window or door heads. To achieve a finish here, use special width Keystone Lintel, or alternatively finish with slate reveal unit or rubbed-up plaster detail. Contact LBS Technical Support if you require any guidance.

When calculating area to be covered by Z-Stone, measure width by height and always add 10% to allow for waste and cutting.

NB - 90° corners are necessary with each project. (Unless just covering a straight wall for example).

**Please note:** When using LBS adhesive allow one bag (15kg) of adhesive for 3m² and the adhesive must be applied generously on both the back of the panel and the wall surface.

**Stainless steel clips which are integral to the Z-Stone Sky Panel are required at heights above 3m**

**ARCHITECTURAL RESOURCES**

LBS has a team of technical sales professionals based throughout the country. We also have an in-house technical support team, whose job it is to provide help and support to any project.

We can provide site specific fixing specifications for any project upon request. In addition, our website offers an architectural resource section, which includes suggested NBS specifications, data sheets, CAD drawings and other valuable resources.

Our experienced team of professionals are fully up-to-date on current building regulations (in both the Republic of Ireland and the UK), and are on hand to provide help and assistance, whether with pre-specification or after sales support.
PRODUCT OVERVIEW:
**LBS Stone Veneer** is a 100% natural stone cladding system, cut to 30mm nominal thickness to give the exact look of ‘full thickness’ stone. Suitable for interior and exterior projects, Stone Veneer is light and easy to install and offers a cost saving on labour and material compared with traditional masonry. Available in 4 beautiful colours: Blue Diamond, Jerusalem Sandstone, Black Limestone and Donegal Mix. Stone Veneer is sold per m² and each pallet contains 10m² which contains a mix of rectangular/square pieces varying between 350 x 210mm and 150 x 80mm.

*Corner pieces are sold separately.

ESTIMATING MATERIALS:

**Stone**
To estimate the quantity of Stone Veneer you need simply multiply the height x width of the area to be covered. Then subtract any openings such as doors and windows. This is the total surface area for which you will need flat stone. Good practice would be to allow 10% for wastage.

**Corners**
To estimate how many corners you will need simply measure the vertical external corners i.e. the window and door jambs that will require corner stone. Please note that it is advisable to allow some extra time for cutting and trimming. Corners are sold by the metre.

**Adhesive**
We recommend LBS adhesive for the installation of Stone Veneer. To determine the quantity of adhesive needed, allow one bag per 3m² of flat stone. Multiply the total linear length of corners by 0.2 to give you additional bags required for corner stone.

*Please note additional adhesive may be required depending on the stone type and quantity.

PREPARATION OF THE SURFACE:

**New Block Surfaces**
Ensure new block surfaces are clean and free from dirt and dust prior to installation. We recommend applying a scratch coat with a water sealer for chimney stacks to minimise water penetration.

**Existing Surfaces**
Existing plastered or dashed surfaces must be cleaned back to its original surface by sandblasting, water blasting, acid etching or wire brushing. Alternatively a metal lath could be attached using corrosive resistant concrete nails with a coating of adhesive fully applied over the metal lath.

**Uneven / Rough Surfaces**
For any uneven or rough surface, it is recommended to scratch coat to level the surface. The contractor must be content the surface will be solid and not loose so as to support the weight of the Stone Veneer.
FITTING INSTRUCTIONS

Step 1 - Pre Application
• Before applying, lay out a small area of stone in front of your project area to give yourself a sense for the variety of shapes and sizes and create an outline design.
• Arrange the pieces so they fit and look complimentary next to one another. It is useful to take photographs at this stage to refer back to and use a numbered sequence L to R.
• Try to avoid fitting similar size pieces together in the one area.
• First coat the wall with LBS adhesive using a notched trowel.

Step 2 - Install Corners First
• Start at the corners and work towards the centre of the wall.
• Be sure to alternate long and short returns on corner pieces.
• Take a clean stone and slightly dampen the back, this will remove any dirt and will prevent moisture loss from adhesive.
• Apply a coat of adhesive approx. 10mm to the entire back of the flats and corners.
• Press the stone onto the wall rotating slightly to force some of the adhesive to squeeze out slightly.
• Any adhesive forced out should be removed before the adhesive is allowed to set. Adhesive joints are better off narrow but should be consistent.
• Fill large gaps with small stones and evaluate your work as you go along.
• Cut and trim the stones if you need particular size stones to fill the gaps.

Step 3 - Fitting Stones & Grouting Joints
• Fill all the gaps between the stones with grout and/or sand cement/lime to slightly above the desired finish depth. The grout will tighten and seal up the area around the stone.
• Let the grout dry until it is firm but not solid. You want to be able to push on it without leaving fingerprints, but don’t let the grout dry too much or it will be very difficult to strike.
• Strike the grout to achieve the desired finish look.
• Use your striking stick to scrape along the joints until the grout has a clean, even look to it.

Step 4 - Sweeping the Stone
• Finally, use your medium bristled brush to sweep the dust off the stone.
Additional copies of this brochure or any other LBS publication are available on request.

Please send a scaled hard copy of your plans or a PDF file to info@LBSproducts.com and we will quantify your drawings free of charge.

We offer a nationwide service through our distribution centres in Lisburn and Athy. For further information, please contact a member of our sales team using the details below.

Installation video guide at LBSproducts.com

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