

C/SIB | | (47) | Ng2 | |
July 2010



BritLock[®] Slate

Interlocking Recycled Slate

Made
in the
UK's first
carbon
neutral
roofing
factory

BritLock[®] Slate



BritLock is a fully interlocking slate with a thin leading edge made from 80% recycled slate waste, sourced from within the UK. Made in the UK roofing industry's first carbon neutral factory this is a highly sustainable roofing product.

In addition its lightweight design saves energy in production, transportation and installation.





Design Benefits



Design that reduces material, labour & weight

At Sandtoft we believe that natural roofing materials shouldn't cost the earth. Through innovative design; material and installation costs can be reduced while maintaining the aesthetic qualities of a natural roof covering.

BritLock has been approved by planning authorities across the country precisely because it is made from natural slate - and as such it will weather naturally and sit beautifully in the landscape in just the same way as slate does. Yet the innovation that BritLock brings to the roof can yield important cost savings for any project.

BritLock can be laid at pitches as low as 17.5° and is therefore ideal for both housing and commercial properties. It is also well suited to refurbishment work due to its lightweight design.

In contrast to a double lapped slate, using an interlocking slate design can offer many benefits. Not only does the employment of an interlock negate the need for double lapping in order to produce a weathertight roof, it also reduces the amount of material laid on the roof thus speeding up completion times and saving significant labour and scaffolding costs. The interlocks are designed to provide high levels of performance against wind driven rain.

BritLock® Slate

Technical Data



BritLock®

Technical Data

Minimum roof pitch*

Headlap (minimum)

Headlap (maximum)

Batten spacing at max. gauge

Batten spacing at min. gauge

Size of tile

Covering capacity at max gauge

Cover width

Profile depth

Hanging length

Weight as laid

Weight per 1,000

Weight per slate

Weight per crate

(including crate and packaging)

Quantity per crate

Battens per m²

Batten size -

Up to 450 mm rafter centres

Up to 600 mm rafter centres

Nail size/type for slates

BRE Green Guide rating

Roof

17.5° @ 120 mm headlap

22.5° @ 75 mm headlap

75 mm

120 mm

285 mm

240 mm

360 x 340 mm

13.9 slates per m² (at 120 mm headlap)

11.7 slates per m² (at 75 mm headlap)

300 mm

11 mm

354 mm

19.5 kg per m² (at 120 mm headlap)

16.4 kg per m² (at 75 mm headlap)

1.4 tonnes

1.4 kg

0.7 tonnes

500

4.2 m (at 120 mm headlap)

3.5 m (at 75 mm headlap)

38 x 25 mm

50 x 25 mm

38 x 2.95 mm aluminium ring shank nail

A

Classification

Type

interlocking

riven slate

Material

80% recycled slate

Fixing

single lap,

cross bond

Composition

Manufactured using 80% recycled UK natural slate. All slate raw material is crushed and graded waste, generated from the quarrying of natural slates. No asbestos or other fibres, and no cement, is used. The tiles are moulded under high pressure in a variety of mould patterns to give the random appearance of natural slate.

Guarantees

Durability guarantee 30 years

Roof SPEC guarantee 15 years (See P11)

All Sandtoft roof slates are included in the National Federation of Roofing Contractors' co-partnership guarantee scheme which offers a 10 year guarantee for materials and workmanship along with insolvency insurance cover.

Note: Unless otherwise stated, data is based on slates laid at minimum headlap.

* Maximum rafter length at 17.5° is 9 metres or 6 metres depending upon site exposure.

Rainwater must not discharge onto a 17.5° roof from upper roofs or gutters etc.

At roof pitches from 17.5° to 22° the new Sandtoft low pitch concealed slate ventilator must be used.



BritLock achieves a BRE Green Guide rating of 'A'

BritLock - Graphite

Standards

There is no British or European Standard to cover reconstituted slate products, but Sandtoft BritLock will meet the relevant performance requirements of BS 5534:2003, the British Standard for slating and tiling.

Quality

BS EN ISO 9001: Quality management systems

Sandtoft BritLock has been awarded British Board of Agrément Certificate No. 97/3351

Environmental
ISO 14001: 2004

Design & fixing

BS 5534: Code of practice for slating and tiling
BS 8000-6: Workmanship on building sites
BS 5250: Control of condensation

Fire resistance

BS 476: Part 3: 2004: EXT SAA



In use

The contractor must work in accordance with BS 8000-6 and fix all slates in accordance with BS 5534. Our Fixing SPEC service, together with installation guides for slates and systems, are available for download from our website www.sandtoft.com or contact Technical Services for assistance on 0844 9395 999.

Maintenance

Extremely low maintenance. Only periodic removal of debris or growth required if in high-risk areas.

Packaging and storage

Supplied shrink wrapped in crates. Download Safe Stacking recommendations from our website www.sandtoft.com or contact Customer Support for assistance on 0844 9395 900.

Health & safety

Adhere to current health and safety rules at all times. Download COSHH sheets from our website www.sandtoft.com or contact Customer Support for assistance on 0844 9395 900.

Colours



Graphite



Heather Blue



Lakeland Green

In order to maintain the shading differences found in natural slate, BritLock should be taken from several crates and mixed at random on the roof.

BritLock[®] Slate

The BritLock roof system

Profile Ridge system



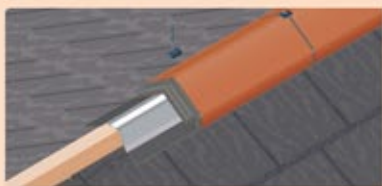
Components

Each pack has sufficient components (excluding ridges) for 2.7 metres of ridge. For use with 457mm Duracoat legged angle ridges and 305mm clay half round ridges.

Profile mono ridge system components

Each pack has sufficient components (excluding ridges) for 2.7 metres of ridge. For use with 457mm Duracoat legged angle mono ridges and 305mm clay half round mono ridges.

RollRidge system



Components

Each pack has sufficient components (excluding ridges) for 5.0 metres of ridge. For use with 457mm Duracoat legged angle ridges and 305mm clay half round ridges.

Eaves ventilation system



Components

The Sandtoft eaves ventilation system is available in 6 metre packs. Systems are available in 10mm and 25mm.



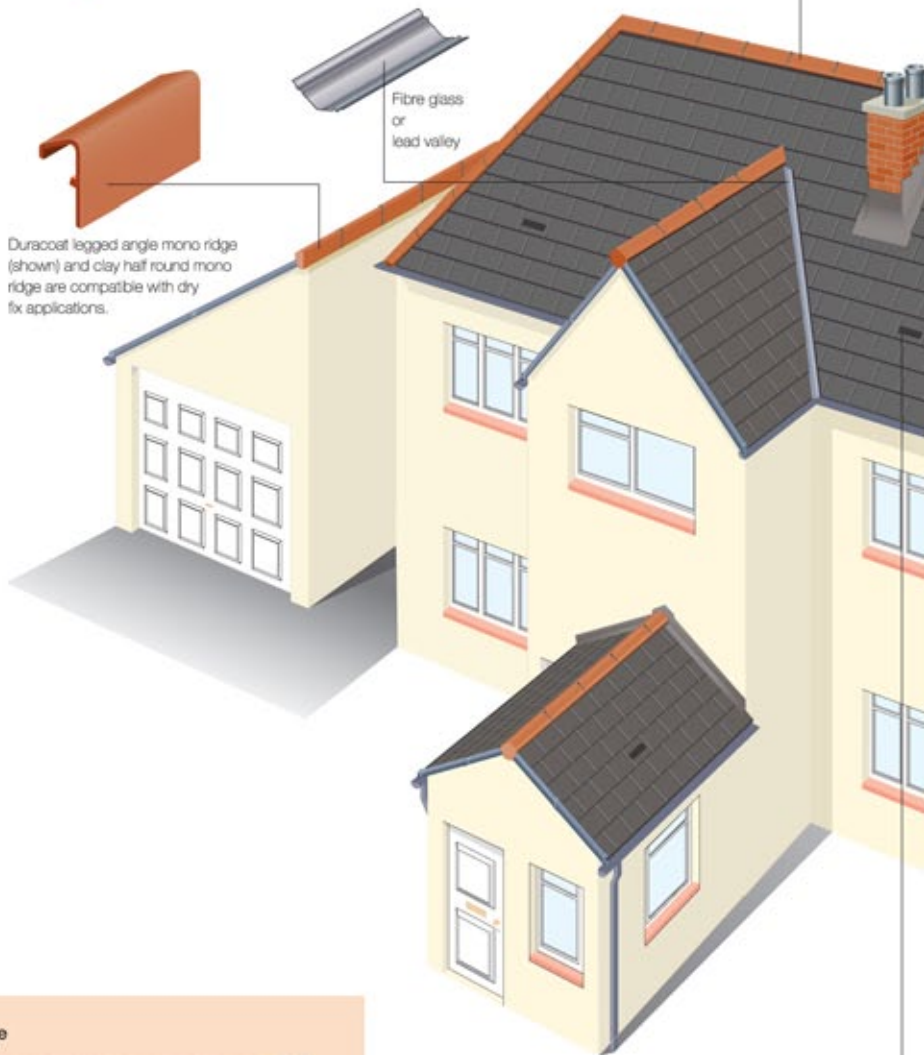
Duracoat legged angle ridge (shown) and clay half round ridge are compatible with dry fix applications. Clay angle option is also available (wet bedded only).



Duracoat legged angle mono ridge (shown) and clay half round mono ridge are compatible with dry fix applications.



Fibre glass or lead valley



Slate Verge



Components

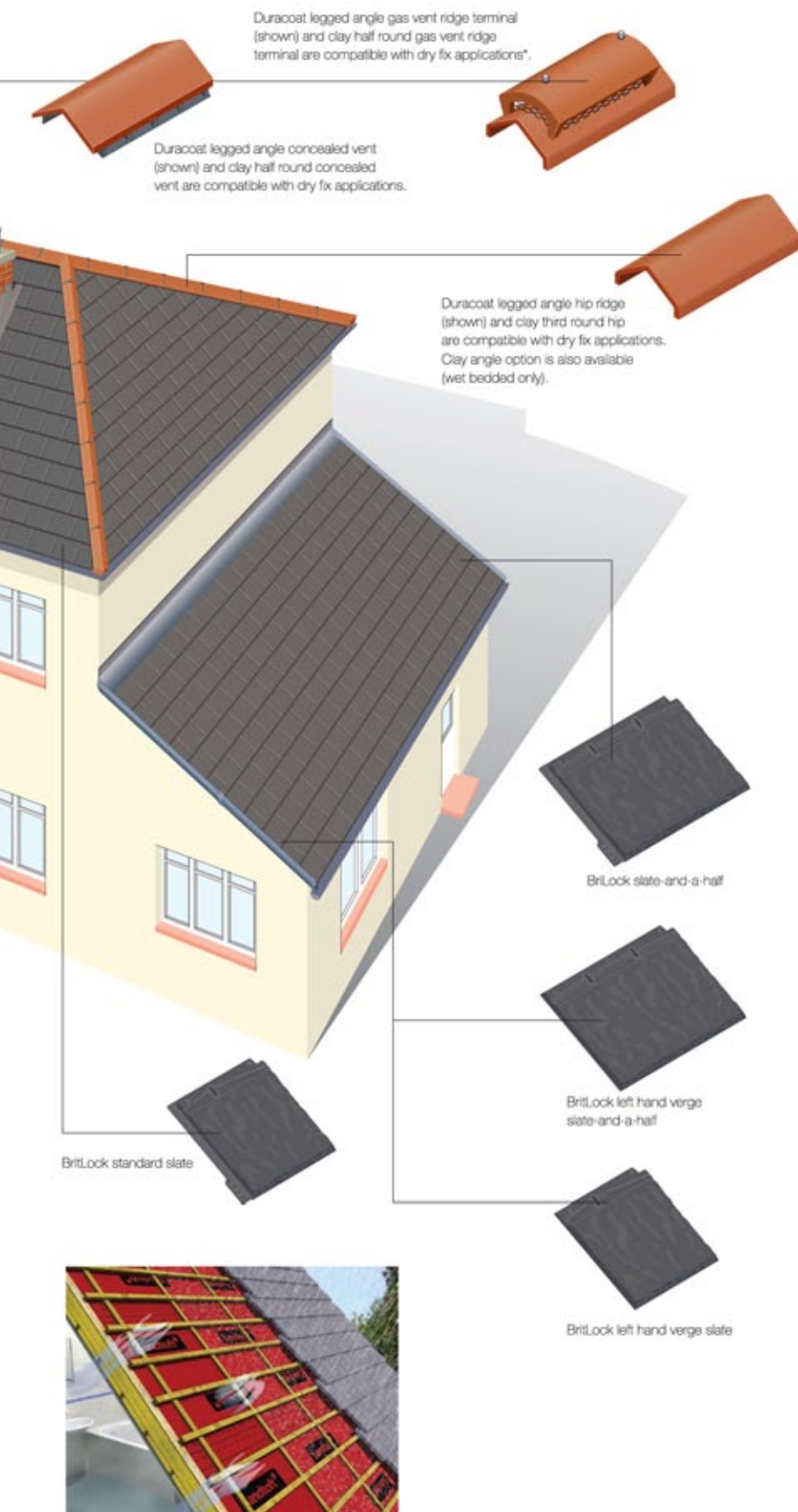
The Sandtoft Slate Verge system is available in 2.4m lengths and is suitable for use with BritLock Slates and BritSlates. The system is easy to fit and provides a neat and mortar-less finish at roof verges.

A connector and left and right hand eaves top ends are available.

Block end ridges are used to finish the verges at the ridge.



Concealed slate ventilator
360 x 300 mm
(NEW: low pitch version also available
for roof pitches down to 17.5°)



Koratech® Classic & Koratech® Classic Super

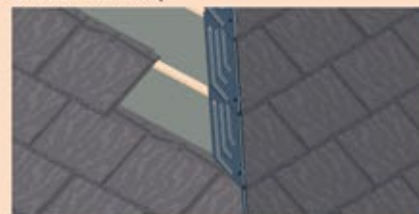
Vapour permeable membranes suitable for both warm and cold roof designs on any roof shape and building type.

Koraflex



Koraflex is an aluminium roll, fully coated with a butyl adhesive backing for superior adhesion. It is an ideal replacement for lead for weatherproofing roof junctions such as side and top abutments around chimneys and dormers. Available in two widths 320mm and 450mm and two standard colours grey and red. See separate brochure.

Britlock Mitred Hip



Components

BritLock Mitred Hip provides a neat and secure detail without the need for hip tiles. Slates, slate-and-a-half slates or double slates are cut to form a neat junction. The hip soaker units provide an effective weatherproof junction. The hip slates are secured using the clips and screws provided. Also each cut slate is drilled at the tail and fixed to the batten using a screw with a sealing washer and cap.

Roll Hip system



Components

Each pack has sufficient components (excluding hip tiles and trays) for 5.0 metres of hip. For use with 457mm Duracoat legged angle ridges and 305mm clay third round ridges.

Abutment ventilation system



Components

The Sandtoft Rollvent top abutment ventilation system comes in 3 metre rolls and is suitable for all profiles. Copper fixing clips are included.

BritLock[®] Slate

Environment



BritLock - Graphite



BritLock - Graphite

100% Green Commitment

Choosing the BritLock means choosing the products of a truly eco-conscious company. At Sandtoft, we are passionate about reducing our impact on the environment and providing the construction industry with greener building materials. Our UK manufacturing processes are audited to environmental standard ISO 14001, but on top of this, we have taken radical steps to reduce our CO₂ emissions.

Significantly, we have switched our entire UK operation to 100 percent renewable electricity and executed a relentless environmental plan across our entire operation, which has enabled the slate plant in West Yorkshire to become the first of our roof tile factories to become carbon neutral, and the first roof tile plant in the UK with no CO₂ emissions attributed to the site's activities.

BritLock is one of the most sustainable roofing products on the market. The interlocking design of the slates reduces weight which saves energy during transportation and installation. In addition, each slate is made from 80 per cent recycled natural slate which is sourced from within the UK, as opposed to the majority of natural slate

products which are imported from overseas. As our manufacturing process for this product is entirely electrically powered, the switch to 100 per cent green electricity has eliminated the CO₂ generated during the manufacturing process, making this innovative slate one of the greenest roofing products available.

We are also reducing our landfill waste, working towards becoming a zero landfill business. The vast majority of our waste is already recycled back into the manufacturing process.

BritLock® Slate

Service & Support



BritLock - Graphite



BritLock - Graphite

Quality products with complete support

To ensure total peace-of-mind, Sandtoft offers a range of support and guarantee packages that encompass design, specification and installation.

Customer Support

Pricing, orders and general enquiries

Tel 0844 9395 900

Fax 0844 9395 950
info@sandtoft.co.uk
www.sandtoft.com

Technical Services

Full range of technical services
Tel 0844 9395 999
Fax 0844 9395 950
technical@sandtoft.co.uk

Despatch Team

Delivery and vehicle information
Tel 0844 9395 955
Fax 0844 9395 950
orders@sandtoft.co.uk

Sandtoft Training and Assessment Centre (STAC)

Tel 0844 9395 900

Durability Guarantee

The roof is the single most exposed element of the building envelope – and as such, it needs to be as durable as it is beautiful. At Sandtoft, we are committed to providing the highest quality roofing solutions, and we are willing to provide the guarantees that will offer you peace-of-mind when investing in our products. All of our recycled slates are guaranteed to last at least 30 years (subject to the standard terms of the guarantee), but we go beyond simple durability guarantees.

Roof SPEC Guarantee

Sandtoft can also provide a comprehensive design specification for your roof; a design specification that we will guarantee for 15 years under our Roof SPEC guarantee system. With Roof SPEC you can be assured that your roof is designed to comply with all of the relevant building standards and best practices, and is guaranteed to remain weathertight for 15 years.

Fixing Specifications

Sandtoft also offers the Fixing SPEC comprehensive fixing specification service – designed to ensure your roof is fixed correctly and securely in accordance with the relevant British Standards. Using BRE BREV data, our postcode-based system provides quick and accurate fixing recommendations to suit your project's geographical position and design specifics. Fixing SPEC is available through our website at www.sandtoft.com – simply fill in your project details and we'll do the rest.

CAD Library

To help save you time, we also offer a vast online library of CAD details through our website, in DWG, DXF and JPEG formats.

Installation

Detailed installation guides and systems video guides are available from our website or contact **Customer Support on 0844 9395 900.**



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BritLock®
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Product colours shown in this brochure are as accurate as the printing process will allow.
Product samples are available upon request.
At Sandtoft we are continually innovating and improving our product range.
We reserve the right to change product specifications without notice.

This brochure is printed on 100% recycled FSC certified paper.

