

Bradstone

Reconstituted stone roofing portfolio

Bradstone roofing

An overview

The Bradstone roofing range offers the authentic look and feel of highly aesthetic natural stone roofing coupled with the high performance, long life and low maintenance qualities of modern materials.

Over the centuries, mankind has constructed and built dwellings from the most abundant materials to hand. In many areas of the country that material was stone, which was sourced from small local quarries.

In these modern day times, Bradstone roofing is the perfect choice to replicate the characteristic look, both on new developments, or on refurbishment projects.

On new housing, our roofing helps a dwelling blend in with its surroundings, especially in conservation planning areas.

On refurbishment projects, Bradstone roofing replaces natural stone slate seamlessly and is able to offer the same profiles including diminishing courses, especially as all of our slates have been cast from moulds taken from the original stone.

For retail and other commercial developments, not only does Bradstone roofing blend in, but it is also used to provide character where required, and help create a striking environment.

Our promise






Easy availability and a full range of roofing accessories to complement the slates, Bradstone roofing complies with modern construction practice making Bradstone the first choice for specifiers in this arena.

The Responsible Source™

Importantly, sustainability has been placed at the heart of our business. We are a Gold Leaf founding member of the UK Green Building Council and all our products produced in the UK are certified under the BES6001 Framework for the Responsible Sourcing of Construction Products as 'VERY GOOD'.

Furthermore, all of our roofing products contain greater than 45% secondary aggregate in accordance with BREEAM guidelines.

We also offer a full technical support and advice service to help our clients from project concept through to completion. Contact us for more information on how Bradstone roofing can add value to your project.

04-05	Conservation	
06-07	Cotswold	
08-09	Old Quarried	
10-11	Crofters	
12	Ventilation solutions	





Guide to symbols

We have placed the following symbols on each product page to help you quickly identify the key features of our products.



BREEAM

All Bradstone roofing products are rated as 'VERY GOOD' under the BES6001 Framework for the Responsible Sourcing of Construction Products.



NBS

Indicates that National Building Specification details can be supplied for this product

Conservation

Technical data information

www.aggregate.com/conservation



Visually authentic, cost-effective slates, specifically developed to meet stringent demands of conservation planning areas.

- Readily available, highly acceptable reconstructed stone alternative to natural stone slates
- Supplied in a full but rationalised range of diminishing lengths and random widths for an authentic appearance
- The slates' ease of laying and ready availability reduce time and costs associated with second-hand material
- Slates are twice holed to facilitate nailing where appropriate
- Slates B to J are ribbed to ensure speed of laying, under eaves (A) are to be nailed and under ridge (M) hung by nails on last course
- Suitable for roofs down to a minimum pitch of 30°
- Conservation range consists of main slates, under ridge and eaves slates with matching accessories including ridge, hip and ventilation units.



Natural Weathered



Main slate



Slate vent



Hip unit



Ridge unit



Swept valley slip slates

Conservation

Product data

Length (mm)	200	254	279	305	330	350	406	457	508	606	600
	Under ridge	Main slates	Main slates	Main slates	Main slates	Main slates	Main slates	Main slates	Main slates	Under eaves	Under eaves
Numbers	M1-5	J1-6	H1-6	G1-6	F1-6	E1-6	D1-7	C1-8	B1-7	A1	A4
Width (mm)	100, 125, 150, 200, 250	150, 175, 200, 225, 250, 275, 300	175, 200, 225, 250, 275, 300	175, 200, 225, 250, 275, 300	175, 200, 225, 250, 275, 300	175, 200, 225, 275, 325, 350	200, 250, 275, 300, 325, 350, 375	200, 250, 275, 300, 325, 350, 375, 400, 425, 450	225, 250, 325, 375, 400, 425, 450	400	250
Sets	40	68	60	60	88	36	24	20	80	80	See below
M ² /pack	6.26 with A1's	8.38	8.77	9.59	10.38	7.56	7.67	8.61	9.47	6.26 with M's	N/A

Each slate is identified by a letter and number, the letter indicates the slate length and the number its width. Please see table above. The main slates (B to J) forming the bulk of the roof are supplied and laid to a double-lap in eight lengths, reducing from eaves to ridge. There are between six and eight different widths in each length. Equal quantities from the full range of widths are supplied in each particular length. The length of rafter determines the number of course in each slate length supplied. Use A4 slate for shorter rafters i.e. dormers and porches.

Ridge units - For roof pitches up to 35°, a 110° (internal angle) ridge unit is available in 600mm lengths. For roof pitches above 35°, a 90° (internal angle) ridge unit is available in 450 and 600mm lengths.

Hip units - available in 450 and 600mm lengths. Ridge vent unit - available in 450mm lengths. Gas flue ridge unit - available in 450mm lengths. Slate vent - Slate size is 406mm (l) x 375mm (w) (slate D7).

⊖ No standard pack. Supplied as required.

For full technical details and accessories, please refer to the Conservation technical data sheet which is available to download at www.aggregate.com

Conservation in application





Highly detailed slates resembling indigenous Cotswold natural stone.

- Readily available, highly acceptable reconstructed stone alternative to natural stone slates
- Supplied in a full but rationalised range of diminishing lengths and random widths for an authentic appearance
- The slates' ease of laying and ready availability reduce time and costs associated with second-hand material
- Slates are twice holed to facilitate nailing where appropriate
- Slates 1 to 28 are nibbed to ensure speed of laying under eaves (29) to be nailed and under ridge (30-33) hung by nails on last course
- Suitable for roofs down to a minimum pitch of 30°
- Cotswold range consists of main slates, under ridge and eaves slates with matching accessories including ridge, hip and ventilation units.



Weathered Buff



Natural Weathered



Main slate



Slate vent



Hip unit



Ridge unit



Swept valley slip slates

Cotswold

Product data

Length (mm)	200 Under ridge	300 Main slates	350 Main slates	400 Main slates	450 Main slates	500 Main slates	550 Main slates	350 Under eaves
Numbers	30-33	1-5	6-9	10-13	14-18	19-23	24-28	29
Width (mm)	100, 175, 225, 350	200, 250, 275, 350, 400	225, 275, 325, 400	250, 300, 350, 450	225, 300, 325, 400, 500	225, 275, 300, 400, 500	250, 300, 350, 425, 500	400
Sets	45	60	60	36	26	28	22	84
M ² /pack	7.85 with No 29's	10.64	10.3	7.79	8.2	9.26	8.84	7.85 with 30-33's

Each slate is numbered and the slate number (see table above) indicates its size. The main slates (1-28) forming the bulk of the roof are supplied and laid to a double-lap in six lengths, reducing from eaves to ridge. There are between four or five different widths in each length. Equal quantities from the full range of widths are supplied in each particular length. The length of rafter determines the number of course in each slate length supplied.

Ridge units - For roof pitches up to 35°, a 110° (internal angle) ridge unit is available in 600mm lengths. For roof pitches above 35°, a 90° (internal angle) ridge unit is available in 450 and 600mm lengths.

Hip units - available in 450 and 600mm lengths. Ridge vent unit - available in 450mm lengths. Gas flue ridge unit - available in 450mm lengths. Slate vent - Slate size is 450mm (l) x 500mm (w) (Slate No. 18)

For full technical details and accessories, please refer to the Cotswold technical data sheet which is available to download at www.aggregate.com

Cotswold in application



Old Quarried

Technical data information
www.aggregate.com/oldquarried

FSC PLUS



This natural stone-effect slate has the characteristics of substantial square cut roofing.

- Readily available, highly acceptable reconstructed stone alternative to natural stone slates
- Simple range of diminishing courses and random widths which give the finished roof the heavy stone appearance
- Available in unique Lichen Green shade for heritage and conservation areas
- Reduced erection and timber costs compared with original natural stone material
- Slates are thrice holed and are hung using metal pegs or clout nails
- Suitable for roofs down to a minimum pitch of 25°
- Old Quarried range consists of main slates, under ridge and eaves slates with matching accessories including ridge, hip and ventilation units.



Weathered Buff



Lichen Green



Main slate



Slate vent



Ridge unit

Old Quarried

Product data

Length (mm)	400 Under eaves	700 Main slates	600 Main slates	525 Main slates	550 Under ridge	600 Ridge unit
Numbers	1	2-4	5-7	8-10	11-13	n/a
Width (mm)	500	450, 525 600	400, 475 550	350, 425, 500	300, 375, 450	n/a
Set width (mm)	n/a	1575	1425	1275	1125	n/a
Sets/pack	90	22	26	30	62	80
M ² /pack	7.53	10.56	9.65	8.73	10.04	48.00 m ²

Each slate is numbered and the slate number (see table) indicates its size. The main slates (2-10) forming the bulk of the roof are supplied and laid to a double-lap in three lengths, reducing from eaves to ridge. There are three different widths in each length. Equal quantities from the full range of widths are supplied in each particular length. The length of rafter determines the number of course in each slate length supplied.

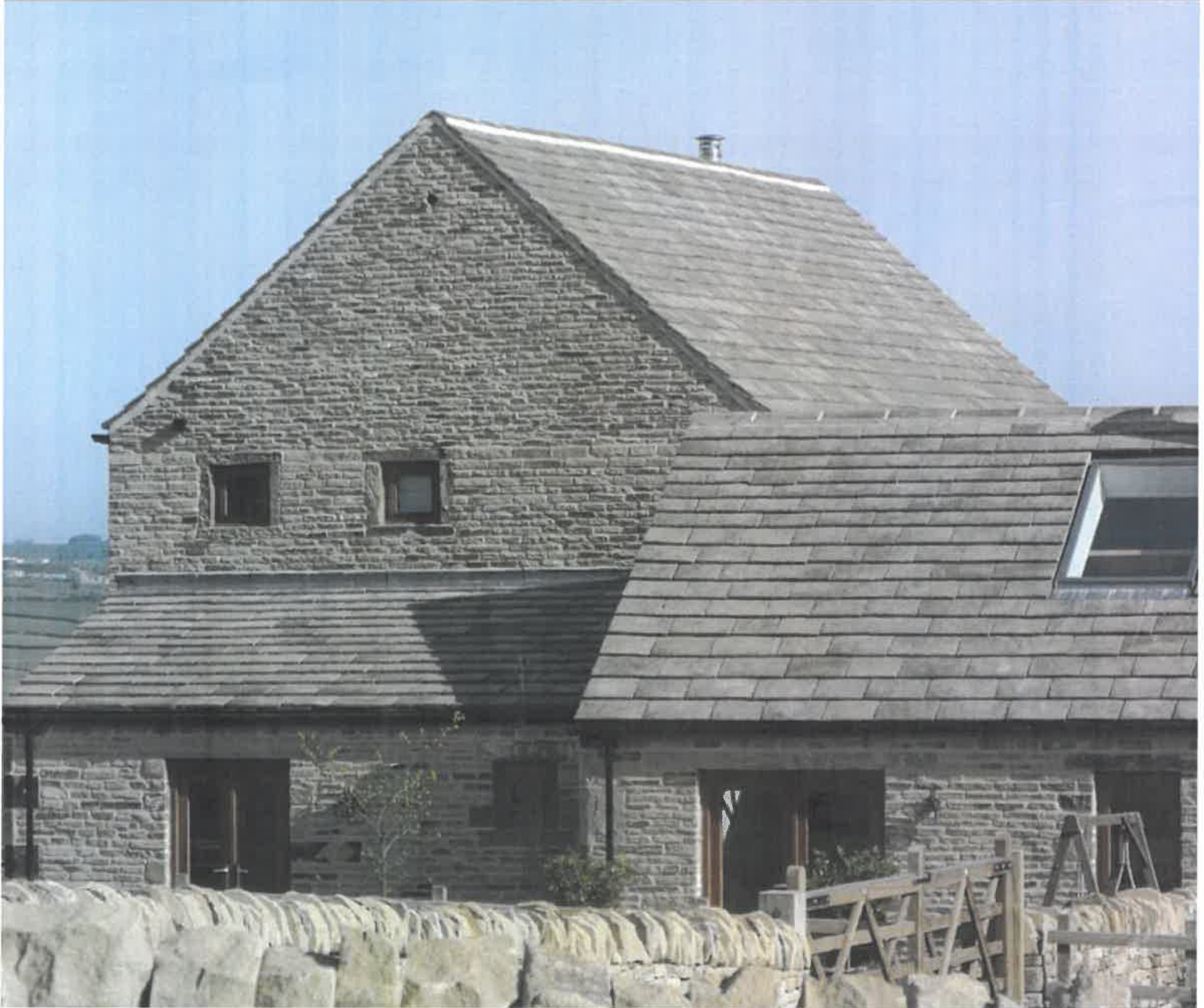
Ridge/hip units - Available in 600mm lengths.

Ridge vent units - Available in 450mm lengths.

Gas flue ridge units - Available in 450mm lengths.

Nails and pegs - Hanging over batten: 40mm long x 4.5mm or 5mm dia. Aluminium tile pegs. Nailing through batten: 40/45mm long x 3.35 dia. Clout bed nails.

Old Quarried in application





A single size, stone-effect roofing slate that is economically priced and simple to lay.

- Readily available, highly acceptable reconstructed stone alternative to natural stone slates
- One size main slate for total simplicity
- The slates' ease of laying and ready availability reduce time and costs associated with second-hand material
- Slates have 2 holes and are hung using metal pegs or clout nails
- Suitable for roofs down to a minimum pitch of 25°
- Crofters range consists of main slates, half slates, under ridge and eaves slates with matching accessories including ridge, hip and ventilation units.



Weathered Buff



Main slate



Half slate



Slate vent



Ridge unit

Crofters

Product data

Type	Main slate	Half slate	Under eave/ ridge	Ridge/ hip unit	Gas and ridge vents	Slate vents
Length (mm)	550	550	350	600, 450	450	550
Width (mm)	425	212.5	425	n/a	n/a	425
Weight (kg)	8.16	4.1	6.0	600 = 11.7/450 = 8.8	10	10
Units/m ² (approx)	10.0	20	16.5	36.75/m ²	n/a	n/a
No. per pack	120	100	45	35 x 600, 35 x 450	n/a	1 per box
M ² /pack (approx)	12.0	5.0	2.73	n/a	n/a	n/a
Pack weight (t)	0.98	0.41	0.27	0.72	n/a	n/a

Ridge units - For roof pitches up to 35°, a 110° (internal angle) ridge unit is available in 600mm lengths. For roof pitches above 35°, a 90° (internal angle) ridge unit is available in 450 and 600mm lengths.

Nails and Pegs - Hanging over batten: 40mm long x 4.5mm or 5mm dia. Aluminium tile pegs. Nailing through batten: 40/45mm long x 3.35 dia. Clout bed nails.

Crofters in application



Ventilation solutions

Ventilation at the ridge and hip for roofs

Since January 2011, it has been a National House Building Council (NHBC) requirement to provide 5000mm²/m high level ventilation in all cold pitched roofs whether they incorporate a vapour permeable low water vapour resistant (LR) underlay or not.

To meet this requirement, the Bradstone range provides either ridge or slate ventilation products or a complete dry fix ridge and hip ventilation system. This not only meets the NHBC requirement but also provides a means of compliance with BS5534:2014 code of practice for slating and tilting with regards to mechanically fixing some or all ridge/hip tiles.

Dry fix universal ventilated ridge and hip system

When using an aluminium roll ventilated ridge and hip solution, it provides a ventilation area of 5000mm²/m and allows for mechanical fixing of the ridge and hip tiles, as well as high level ventilation. The many features of this product make it the outstanding choice for ventilating Bradstone roofing.



- Provides ventilation between ridge tiles even on flat roof tiles and slates
- All aluminium construction is rot-proof, durable and corrosion-resistant
- Ventilated, but driving rain resistant
- Unique weatherproof design avoids the need for ridge unions
- Unique stainless steel clip system provides mechanical fixing of the ridge tiles and correct spacing to ensure an even appearance
- Handy 6m pack contains all components needed to install the system
- Quick and easy to install, no special tools required.

Ridge ventilation units

Ridge ventilators have been designed to provide an aesthetic and unobtrusive solution to roof ventilation at ridge level. Spaced at intervals and laid on a mortar bed, these units provide 5000mm²/m of ventilation when suitably spaced. They can also be used with a soil vent pipe for mechanical extraction.



Conservation and
Cotswold ridge vent unit

Old Quarried and
Crofters ridge vent unit

Gas flue ridge unit

- Authentic look to the ridge line
- Supplied in Cotswold, Conservation, Old Quarried and Crofters ranges.

For further information refer to the Bradstone roofing technical brochure available at www.aggregate.com

We are 100% committed to manufacturing high quality products on spec and on time by partnering with our customers from project concept through to completion. As part of this commitment, we provide a full range of technical services including;

- Full take off service based on current working drawings
- Batten schedules
- Technical guidance on all products including the British Standard BS5534
- Samples service
- Historical project application imagery
- SAP calculations for medium size developers
- RIBA accredited CPD seminars including;
 - **Design considerations when specifying masonry**
Provides a insight on how specifying masonry can have a positive impact on BREEAM designed buildings, along with advice on relevant product standards and differing manufacturing methods, range of products available and detailing issues to consider in providing a cost effective aesthetic building.
 - **Manufactured stone masonry units and roofing**
Provides a understanding of the relevant product standards and the differing manufacturing methods, along with advice on laying patterns and selection of mortars to provide a aesthetically appealing building.
- Full technical data sheets on all of our products can be downloaded at www.aggregate.com



Efflorescence

Aggregate Industries cannot accept responsibility for the effect of "efflorescence" which can be a characteristic of all building products with a high cement content.

The phenomenon may be exhibited by an apparent loss of intensity of colour and the appearance of a milky white bloom on the face of the product. The effect generally disappears with time and is no way detrimental to the performance of the product.

Colours

We take great care in the photographic accuracy of products shown, however due to variables in both the photographic and printing processes, colours may not exactly match current production. We recommend that clients obtain current production samples in suitable quantities as a general indication of colour before final selection.

To minimise colour and texture variation, we recommend that products are ordered from one batch. In manufacturing precast concrete products, variation in colour and texture may arise, and

therefore total consistency cannot be guaranteed. The degree of rumbering on block paving products may also vary from product to product and between batches. Multi-coloured products are produced randomly therefore colour proportions in different blocks may vary.

Colours may vary slightly between production batches and customers are advised to mix and select product from at least three different packs on site. Natural stone products will feature more colour variation than concrete products.

Product development

Aggregate Industries has a policy of continuous product development and product information is subject to change without notice. All products are manufactured to the appropriate British, (BS) standard or harmonised European standards, (BS EN) wherever possible. If no standard currently exists then Aggregate Industries' own standard is applied. All the products or services shown in this brochure are supplied subject to Aggregate Industries UK Ltd terms and conditions of sale.

Use of information within literature

The designs shown in this literature are illustrative only, and all dimensions are nominal. Every effort is made to ensure the accuracy of all textual and pictorial content in this guide. No charge is levied for this brochure or the advice therein, and accordingly the company, its employees and authorised agents can accept no liability whatsoever, either indirectly or directly arising from the use of its products in connection with any information or advice contained in this guide. It is the responsibility of Clients and Installers to check that installations achieve the appropriate standard. The relevant British or European standard should be referenced at all times.

You can obtain technical data sheets using the link from the top of each product page in this brochure and further information about the Bradstone range, our products and services (including case studies) is available at www.aggregate.com.

Aggregate Industries

The complete service

Our full building products package

Aggregate Industries offers complete building product solutions by bringing together our roofing, walling, architectural facing masonry, aggregate concrete blocks and aggregate ranges.



BRADSTONE ROOFING

Bradstone roofing products offer the authentic look and feel of highly aesthetic natural stone roofing but in high quality, easily available, sustainable materials.

BRADSTONE WALLING

Bradstone walling combines the look and feel of traditional natural stone with the high performance, long life and low maintenance qualities of modern materials.

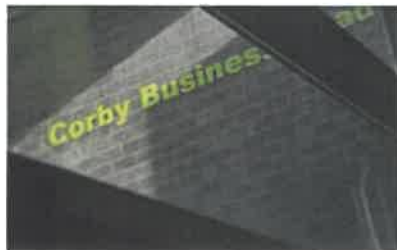


ARCHITECTURAL FACING MASONRY

Our architectural facing masonry walling ranges are high quality, simple to install, cost effective and often achieve an A+ Green Guide rating.

MASTERBLOCK CONCRETE BLOCKS

Masterblock is one of the UK's leading ranges of dense and lightweight aggregate concrete blocks supplied to commercial and housing markets.



AGGREGATES

Our range includes high quality decorative stone for domestic applications, as well as construction aggregates and specialist sands for the construction sector.

Aggregate Industries

The complete service

We offer an extensive range of products and services to the construction industry.



Aggregates

We supply crushed rock, sand and gravel, stone and fill materials for large commercial construction projects.

Tel: 01455 285200
Email: aggregates@aggregate.com



Asphalt

We are a leading supplier of a full range of coated materials with over 54 locations in the UK, serving major conurbations, including sites for collect business.

Tel: 01455 288222
Email: asphalt@aggregate.com



Cementitious materials

We import grey and white cement from Northern Europe and supply Fly Ash to ready-mixed, precast, mortar, screed and render companies.

Tel: 01530 512000
Email: cementitious@aggregate.com



Commercial landscaping

Flag paving, block paving and kerb products are available in both concrete and natural stone. Surface water drainage products are also part of a wide ranging portfolio.

Tel: 01335 372222
Email: landscaping@aggregate.com



Concrete

We offer a complete range of ready-mixed concretes and screeds, operating from over 70 sites. We also have an operation that caters for smaller collect loads

Tel: 01283 714187
Email: concrete@aggregate.com



Contracting

We strengthen our construction materials portfolio through our involvement in infrastructure, surfacing and civil contracting works.

Tel: 01530 510066
Email: contracting@aggregate.com



Garden landscaping

Bradstone is one of the UK's leading ranges of natural and reconstituted stone paving, walling, edging, coping and block paving.

Tel: 01335 372 222
Email: bradstone.garden@aggregate.com



Overseas

Aggregate Industries Overseas supplies high quality aggregates to Europe from bases in the UK, Poland, Germany, Norway and Latvia.

Tel: 01530 512025
Email: overseas.sales@aggregate.com



Construction solutions

Our Charcon Construction Solutions business offers design, manufacture and installation of integrated offsite solutions including modular roofing, hydro, flooring, ground and structural frame solutions.

Tel: 01670 531160
Email: sales@charconcs.com

North End, Ashton Keynes,
Wiltshire SN6 6QX

Tel: 01285 646900

Fax: 01285 646891

Email: building.products@aggregate.com

www.aggregate.com

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LafargeHolcim





AGGREGATE
INDUSTRIES

**BRADSTONE
OLD QUARRIED STONE ROOFING**

WHY CHOOSE BRADSTONE OLD QUARRIED STONE?

Old Quarried Stone is the perfect alternative to natural stone slates. Made from reconstructed stone, it has an incredibly natural look, is cost effective and environmentally astute.

Old Quarried Stone is a natural stone alternative to natural stone slates. It is made from reconstructed stone, which gives it a natural look and feel. It is also a cost-effective and environmentally friendly alternative to natural stone slates.

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Our promise
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FOR A SAMPLE OR TO GET A QUOTE CONTACT 01285 646900

BES 6001
Responsible Sourcing



CASE STUDY

LONG ASHES PARK NEW CONFERENCE CENTRE

Old Quarried Stone chosen to seamlessly blend the new conference centre and accommodation blocks into the picturesque surroundings of the Yorkshire Dales

Customer:
Lancaster Estates Ltd

Architect:
Dorland and Architects

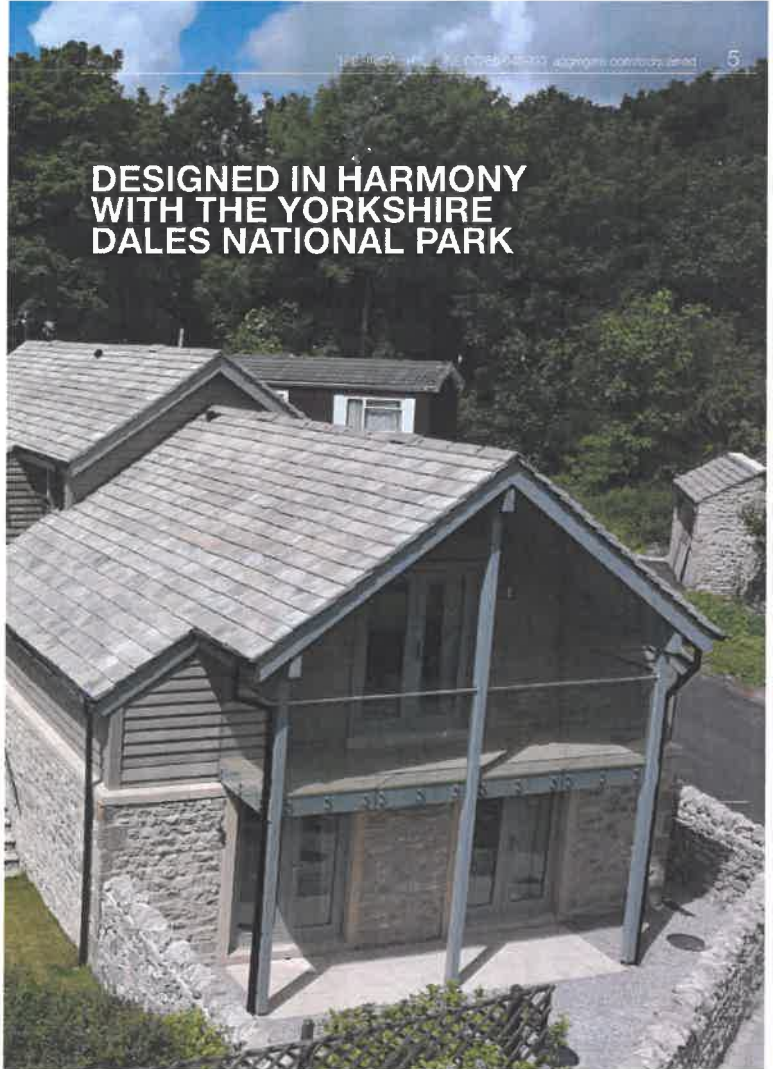
Contractor:
M.J.S. Builders

Product used:
Slate 1250 x 625 x 20mm
Weather: BS2576

The new conference centre and accommodation blocks at Long Ashes Park in the Yorkshire Dales National Park were designed to blend seamlessly into the picturesque surroundings of the Yorkshire Dales. The new buildings were designed to be a modern take on the traditional stone buildings of the area.



DESIGNED IN HARMONY WITH THE YORKSHIRE DALES NATIONAL PARK



11 LUXURY PINE LODGES IN THE HEART OF LONG ASHES PARK

A development of eleven luxury pine lodges crafted to the highest standards and inspired by Scandinavian living.

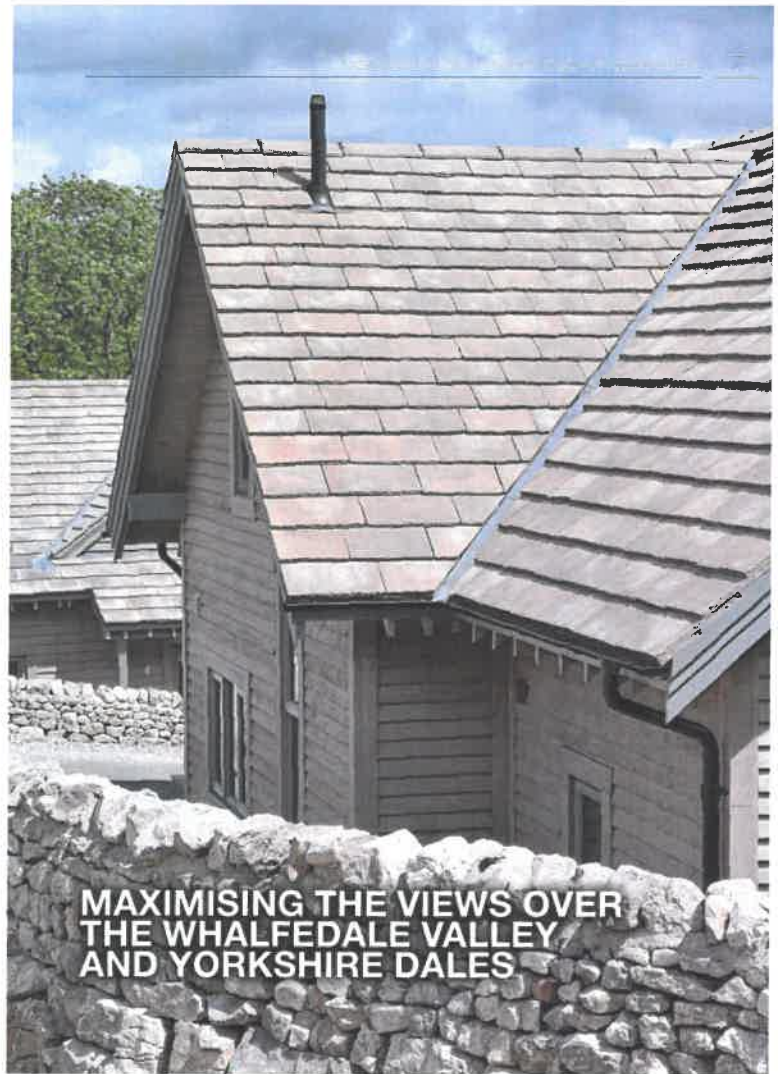
Customer:
Lakeland Estates Ltd.

Architect:
The Lakeland Group

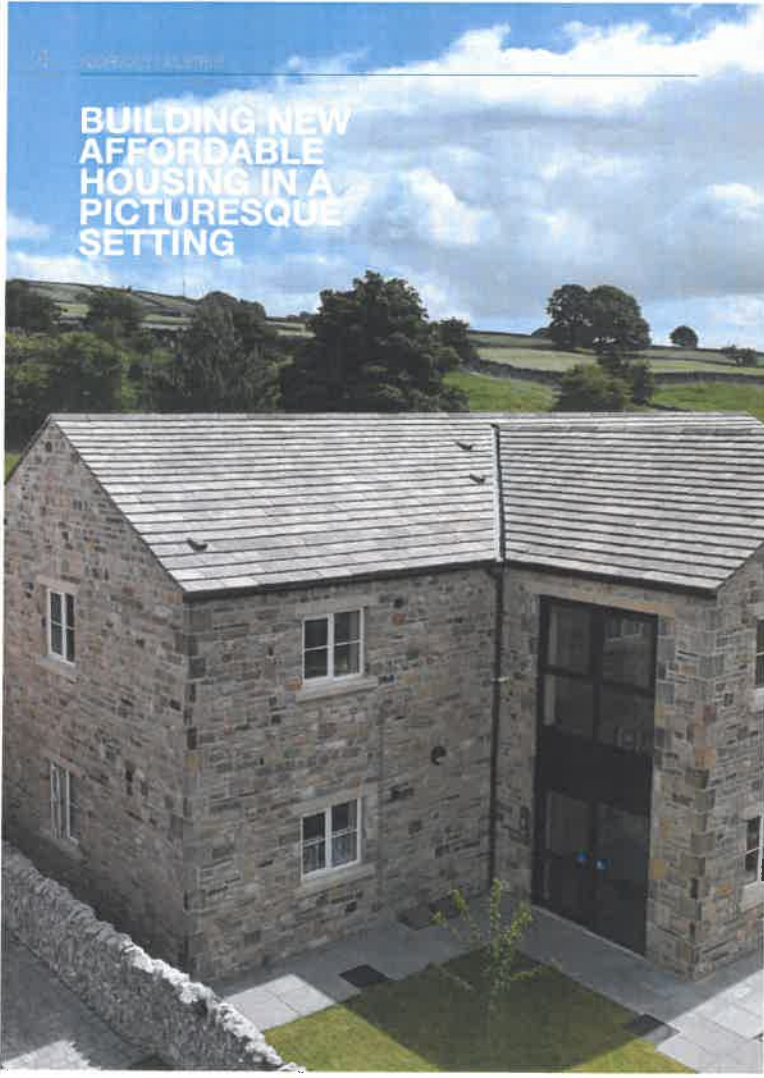
Contractor:
AVS

Product used:
AVS Pine Shingles

AVS Pine Shingles were used for the roof of the eleven luxury pine lodges. The shingles are made from natural pine wood and are known for their durability and long lifespan. The lodges are built in a traditional Scandinavian style, featuring steep gabled roofs and light-colored wood cladding. The shingles are installed on a solid wooden frame and are secured with metal nails. The lodges are situated in a beautiful location, overlooking the Wharfedale Valley and the Yorkshire Dales. The shingles are a perfect choice for this type of building, as they provide a natural and rustic look that blends perfectly with the surrounding environment.



MAXIMISING THE VIEWS OVER THE WHALFEDALE VALLEY AND YORKSHIRE DALES



BUILDING NEW AFFORDABLE HOUSING IN A PICTURESQUE SETTING

CASE STUDY

22 AFFORDABLE FAMILY HOMES BUILT INTO THE YORKSHIRE DALES LANDSCAPE

Blending affordable residencies of 14 houses and 8 apartments into the picturesque Yorkshire Dales village of Grassington.

Customer:
 Leeds-based Housing Association

Architect:
 Bowman Riley Architects

Contractor:
 M&A Building Services Ltd

Product used:
 The Quarry Stone Slates

The Quarry Stone Slates are a natural, locally sourced product that blends perfectly with the traditional stone buildings of the Yorkshire Dales. The slates are available in a range of sizes and finishes, allowing for a variety of architectural styles. The Quarry Stone Slates are a sustainable choice, as they are made from natural stone and are fully recyclable.

