



**AGGREGATE**  
INDUSTRIES



## **Bradstone**

Reconstructed 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 material to hand. In many areas of this country, that material was stone, and not only the walls, but also the roofs were crafted from stone sourced from small local quarries.

In these current 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 house 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.

The easy availability, and of course, a full range of roofing accessories to complement the slates, and comply with modern construction practise should make Bradstone roofing the first choice for specifiers in this arena, and full technical support and advice is always available.

Importantly, sustainability has been placed at the heart of our business, with all our products produced in the UK being certified under the BREEAM scheme as coming from a responsible source, possibly enabling extra points under schemes such as the Code for Sustainable Homes.

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	







## 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 BREEAM Responsible Sourcing accreditation scheme - BES 6001.



### NBS

Indicates that National Building Specification details can be supplied with this product.



## Conservation

### Technical data information

www.aggregate.com/conservation



nssPlus



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

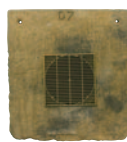
- Readily available, highly acceptable reconstructed stone alternative to natural stone slates
- Supplied in a full but rationalised range of diminishing lengths and random widths for an authentic appearance
- The slates' ease of laying and ready availability reduce time and costs associated with second-hand material
- Slates are twice holed to facilitate nailing where appropriate
- Slates B to J are nibbed 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)	203 Under ridge	254 Main slates	279 Main slates	305 Main slates	330 Main slates	356 Main slates	406 Main slates	457 Main slates	508 Main slates	305 Under eaves	203 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	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	225, 250, 325, 375, 400, 425, 450	400	250
Sets	40	68	60	60	58	36	24	20	20	80	See below
M <sup>2</sup> /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 on the quick web link stated at the page header.



## Conservation in application





## Cotswold

Technical data information  
[www.aggregate.com/cotswold](http://www.aggregate.com/cotswold)



nbsPlus



Highly detailed slates resembling indigenous Cotswold natural stone slates.

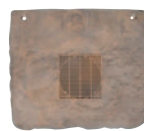
- Readily available, highly acceptable reconstructed stone alternative to natural stone slates
- Supplied in a full but rationalised range of diminishing lengths and random widths for an authentic appearance
- The slates' ease of laying and ready availability reduce time and costs associated with second-hand 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



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, 450	250, 300, 350, 425, 500	400
Sets	46	60	60	36	26	28	22	84
M <sup>2</sup> /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 on the quick web link stated at the page header.



## Cotswold in application





## Old Quarried

### Technical data information

[www.aggregate.com/oldquarried](http://www.aggregate.com/oldquarried)



nssPlus



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 stout 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	330 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 <sup>2</sup> /pack	7.83	10.56	9.65	8.73	10.04	48 lin m

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.

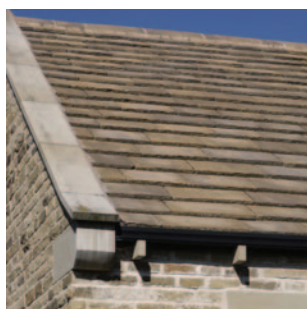
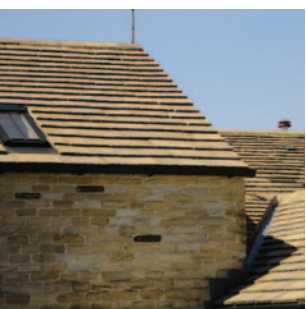
Gas flue ridge units - Available in 450mm lengths.

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.

For full technical details and accessories, please refer to the Old Quarried technical data sheet on the quick web link stated at the page header.



## Old Quarried in application





## Crofters

Technical data information  
[www.aggregate.com/crofters](http://www.aggregate.com/crofters)



n55Plus



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 stout 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

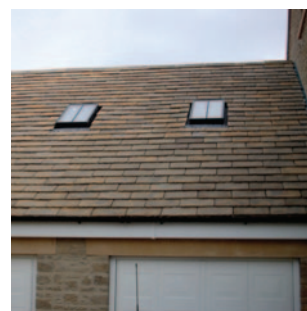
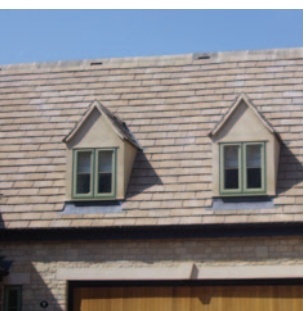
Type	Main slate	Half slate	Under eave/ ridge	Ridge/ hip unit	Gas and ridge vents	Slate vents
Length (mm)	550	550	350	600, 450	450	550
Width (mm)	425	212.5	425	n/a	n/a	425
Weight (kg)	8.16	4.1	6.0	600 = 11.7/450 = 8.8	10	10
Units/m <sup>2</sup> (approx)	10.0	20	16.5	36.75/in m	n/a	n/a
No. per pack	120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

From January 2011, it has been an NHBC requirement to provide 5000mm<sup>2</sup>/m high level ventilation in all cold pitched roofs whether they incorporate a vapour permeable (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, which will not only meet this new NHBC requirement but also provides a means of compliance with BS 5534:2003 code of practise for slating and tilting with regards to mechanically fixing some or all ridge/hip tiles.

### Dry fix universal ventilated ridge and hip system

Using an aluminium roll ventilated ridge and hip solution gives a ventilation area of 5000mm<sup>2</sup>/m and allows for mechanical fixing of the ridge and hip tiles as well as the 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
- This product will assist in achieving high level ventilation as recommended by the NHBC.

### 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 5000mm<sup>2</sup>/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.

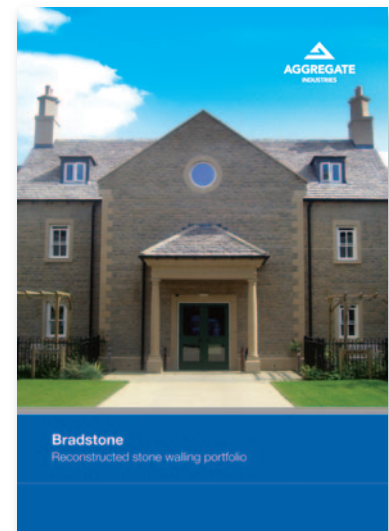


## The Bradstone walling range

We have an accomplished portfolio of natural stone replicate walling for a variety of building applications. From schools and hospitals to homes and commercial developments, even infrastructure such as bridges, we offer a wide choice of highly aesthetic products to meet all your specification needs.

We can boast many industry awards as suppliers to UK housebuilding companies, contractors, and builders merchants, and are confident we have the products to set any construction project apart.

For more information on our product range please request a brochure by calling 01285 646884 or emailing [building.products@aggregate.com](mailto:building.products@aggregate.com)



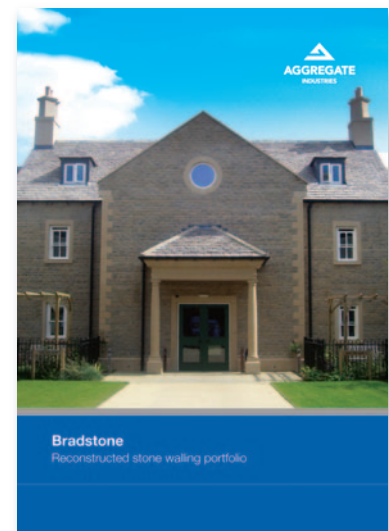
## The Bradstone architectural facing masonry range

We are an environmentally responsible producer of high-quality construction materials to benefit the built environment.

We offer a range of architectural facing masonry products which are used throughout the UK, the range is highly aesthetic and replicates many of the natural stone colours and textures.

As well as outstanding products, we offer all the technical support functions that are expected of a major industry force, backed up by the resources and technologies of the Aggregate Industries group of companies.

For more information on our product range please request a brochure by calling 01285 646884 or emailing [building.products@aggregate.com](mailto:building.products@aggregate.com)





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



### CPD

Aggregate Industries is able to offer FREE RIBA accredited CPD seminars. We provide a high quality programme which is continually reviewed and updated to give grounding to specifiers on the products, their performance characteristics, and environmental benefits, as well as keeping them up to date with best practice.

1. Design considerations when specifying masonry



Contact us on 01285 646884 for more information or to book.



### Technical services

A full range of technical services is available including information on quantities, coursing details, ventilation solutions and the product's environmental advantages. We can also help with NBS specifications and give advice on achieving Code for Sustainable Homes levels or BREEAM ratings.

Contact us on 01285 646884.

#### 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 rumbling 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](http://www.aggregate.com).



# 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 construction. These can be delivered by road, rail or marine transport. We also produce silica and specialist sands.

**Tel:** 01455 285200

**Email:** [aggregates@aggregate.com](mailto:aggregates@aggregate.com)



### Asphalt

We are a leading supplier of a full range of coated materials with over 40 locations in the UK, serving major conurbations, including sites for collect business.

**Tel:** 01455 288222

**Email:** [asphalt@aggregate.com](mailto:asphalt@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](mailto:contracting@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](mailto:overseas.sales@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](mailto:landscaping@aggregate.com)



### Building products

We produce decorative masonry building blocks, reconstructed stone walling and roofing slates.

**Tel:** 01285 646884

**Email:** [building.products@aggregate.com](mailto:building.products@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](mailto:concrete@aggregate.com)



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