

Architectural Masonry, Roofing & Structural Walling



The authentic, sustainable, economical alternative to natural stone

Bekstone *Co₂efficiency* Range

Traditional & Sustainable

Bekstone has been manufacturing architectural masonry for over half a century and produces sympathetic stonework that can be incorporated in to both commercial and residential projects. Our defined colour ranges have been developed to match regional building stone variations and are widely accepted by planners and architects. Bekstone is committed to carbon reduction and the *Co₂efficiency* range of walling, cast stone masonry and roof tiles are manufactured using renewable energy and a high proportion of reclaimed and recycled materials so as to be both sustainable and eco-friendly.

This brochure is designed to illustrate how Bekstone masonry can be incorporated in to a variety of developments and projects whilst providing a sustainable, cost effective and 'greener' alternative to brick and natural stone.



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"Bekstone is committed to responsible sourcing and carbon reduction and is one of the few companies to publish targets and results. Since beginning our carbon reduction programme we have reduced our CO₂ emissions per tonne of production by over 40%."



Manufactured using 100% electricity supplied from Renewable Resources via generation which is Climate Change Levy exempt.



Bekstone's commitment to sustainability has been further reinforced by securing ISO 14001:2004 Environmental Management Systems.



Bekstone has been awarded the Carbon Trust Standard. A mark of excellence awarded in recognition of measuring, monitoring and ongoing reduction of carbon emissions.



Bekstone *Co₂efficiency* Walling looks and feels like traditional natural stone walling but without the purchase and laying costs usually associated with it.

Our comprehensive range of colours, face finishes and sizes mimics most types and styles of natural stone and is readily accepted by local planning authorities throughout the United Kingdom for both residential and commercial projects.

Bekstone *Co₂efficiency* Face finishes

Split: has a slightly uneven finish to its face which looks similar to rough hewn stone. It can be laid in either a coursed pattern or to create a more authentic appearance use two or more course height blocks.



Pitched: is similar to naturally quarried and dressed stone. It has a rough raised profile that produces the subtle, authentic rugged appearance of traditional tooled stone found in many Limestone and Sandstone areas.



Tumbled: has a rough irregular shape and finish that replicates old weathered stone. It is especially popular in rural areas.



Dressed Weathered: has a raised face with a weathered profile giving a beautiful warm appearance.



Bekstone *Co₂efficiency* Walling

Colours Available



Buff Black



Buff Brown



Golden Buff



Grey



Ironstone



Lothian Red



Mendip



Natural Light Weathered



Oolite



Sandown Green



Sherwood



Yate Grey



Size (mm)	No per pack	m ² per pack	Units /m ²	Unit weight (kgs)	Pack weight (kgs)
229 x 102 x 65	415	7.44	55.8	3.1	1300
305 x 102 x 65	309	7.30	42.3	4.2	1300
380 x 102 x 65*	228	6.67	34.2	5.7	1300
229 x 102 x 102	273	7.31	37.3	4.8	1300
305 x 102 x 102	207	7.30	28.3	6.3	1300
380 x 102 x 102	150	6.55	22.9	8.7	1300
229 x 102 x 121	238	7.45	31.9	5.5	1300
305 x 102 x 121	180	7.43	24.2	7.2	1300
380 x 102 x 121	130	6.64	19.6	10.0	1300
229 x 102 x 140	202	7.24	27.9	6.4	1300
305 x 102 x 140	153	7.23	21.1	8.5	1300
380 x 102 x 140	110	6.44	17.1	11.8	1300
229 x 102 x 215	131	7.05	18.6	9.9	1300
450 x 102 x 215*	63	6.83	9.2	20.6	1300

* Only available in Split or Pitched face

All dimensions are nominal and coverage dimensions include 10mm jointing

Water Absorption:
Thermal Conductivity: Protected:
 Exposed:
Density:
Compressive Strength:
Water Absorption
Capillary Coefficient:

Less than 10% absorption by weight after 24 hours
 1.01 W/mK
 1.11 W/mK
 Mean Dry Density = 2050 kg/m³
 Average 20 N/mm²
 4.0g/m².s



Bekstone specialise in manufacturing high quality and aesthetically pleasing reconstituted cast stone masonry that is virtually indistinguishable from quarried stone.

Bekstone architectural dressings are manufactured using a semi-dry process. Skilfully crafted in component forms to produce a superior range of products that are durable and a cost effective alternative to natural stone. They provide the essential detailing that enhances the appearance of brick, render and stone buildings. The *Co₂efficiency* range comprises a wide variety of architectural masonry dressings from simple lintels to highly detailed porticos. Standard products can be produced quickly from our extensive range of stock moulds and our highly skilled in-house design and mould making team enables us to manufacture bespoke products to architects' and designers' own specifications.

Whether your project is large or small, you can rely on Bekstone to deliver a consistent quality product, on time and at the right price.

Bekstone *Co₂efficiency* Heads & Cills



Bekstone's *Co₂efficiency* cast stone dressings will enhance any home. Our extensive range of standard cast stone products are suitable for both landscaping and architectural use and add both character and value to your home. Bekstone *Co₂efficiency* cast stone is available in a range of standard sizes and colours.

Detailed below are the standard sizes and colours for window Heads & Cills. These are available in Stooled or Slip Cills and Splayed or Straight Heads and are usually available from stock as detailed in the table below.

Opening size (O/S) mm	488	630	915	1200	1770*	1800*
Finished size (F/S) mm	688	830	1115	1400	1770*	2000*

*Come in two sections

Heads

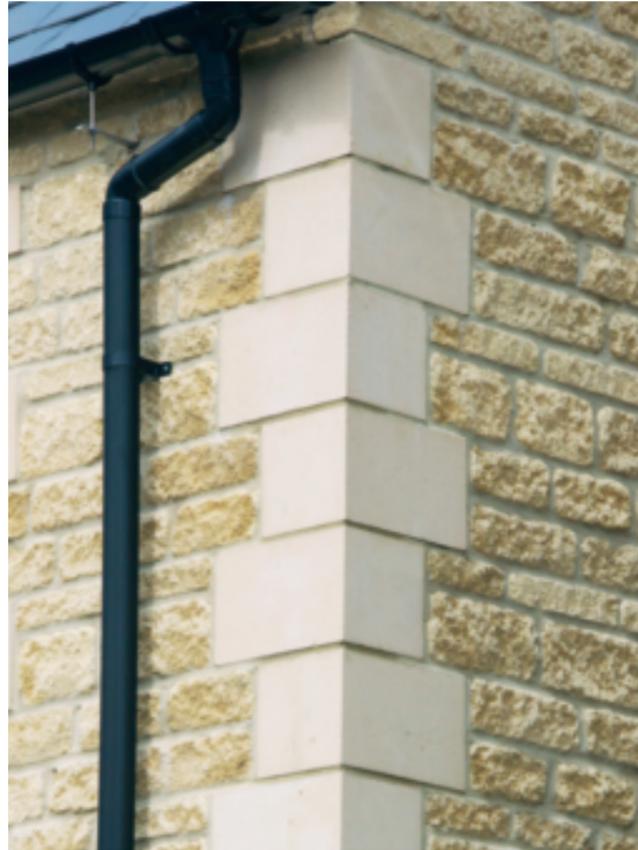


Cills

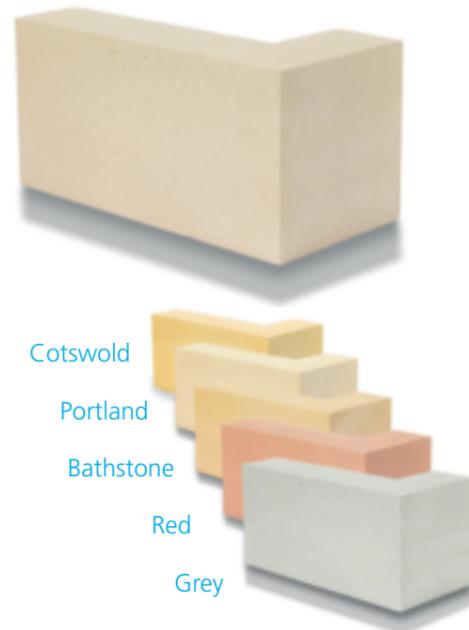


Bekstone *Co₂efficiency* cast stone products are decorative and are not designed to be load bearing or structural in any way.

Bekstone *Co₂efficiency* Quoins & Ashlar Blocks



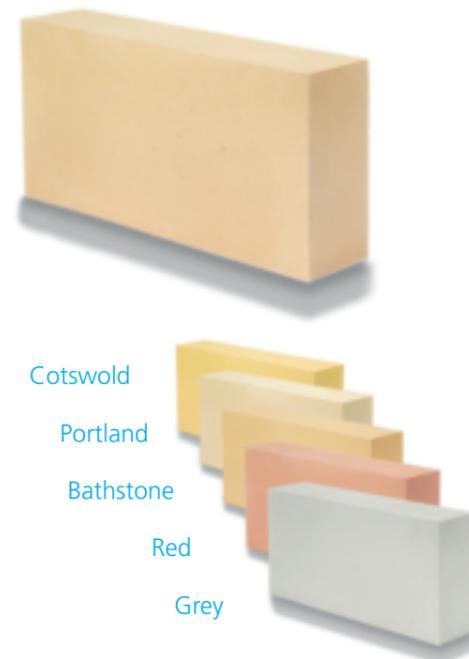
Quoins



Bekstone manufacture high specification cast stone. The *Co₂efficiency* range includes Quoins and Ashlar blocks, each reflecting the character of natural stone. Our standard designs are tailored to meet individual requirements and available either plain or chamfered.



Ashlar Blocks



Gable Vents



Bullseye Surround



Name & Date Stones



Corbels

Bekstone *Co₂efficiency* cast stone can enhance all projects. Detailing such as Cills, Heads, Ashlar, Quoins, Arches, Pier Caps, Copings, Porticos and Balustrading will add character and value. If none of our standard shades suit your requirements then we can offer our colour matching service, which can recreate most colours and textures.



Hand Dressing

Bekstone *Co₂efficiency* Roofing Tiles



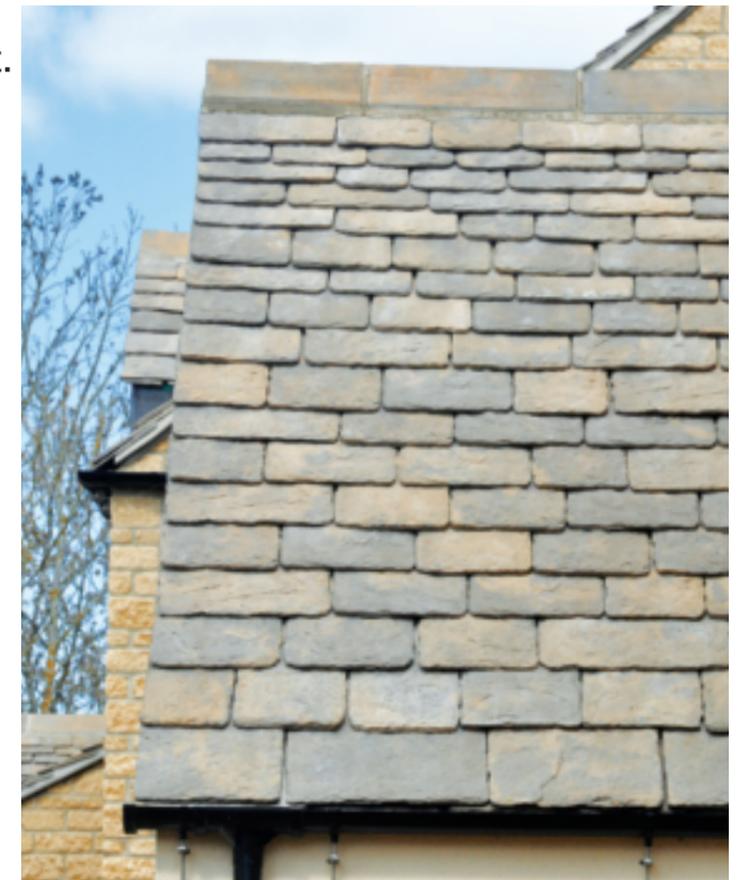
A traditional, visually appealing material that will set your development apart. Bekstone's *Co₂efficiency* Roofing Tiles are an authentic cost effective alternative to naturally quarried stone, available in a range of shades recreating the colours, textures and subtle variations of most regional stone slates and tiles. *Co₂efficiency* Roofing Tiles can be laid in single sizes. However, they are mostly supplied and laid in a full range of diminishing lengths with random widths. This presents an authentic appearance and retains the essential characteristics of hand tooled natural stone tiles. Bekstone tiles are moulded from natural Cotswold roof tiles reproducing the fine detail of the originals. The range consists of main tiles, under eaves and under ridge tiles, with matching ridge, hip and ventilation units.



Quarried stone roofing tiles are becoming increasingly difficult to source and prohibitively expensive. Bekstone have recreated the traditional appearance, durability and versatility of these hand tooled Cotswold tiles without the excessive cost.

Slate Tiles

Available in a wide variety of colours and sizes. Easy to lay and readily available in predetermined quantities, no sorting and redressing labour costs. Tiles are holed to ensure secure fixing. Supplied in a full range of diminishing lengths with random widths offering an authentic appearance of a natural stone tile. Bekstone tiles are suitable for roofs down to a minimum pitch of 30°. We use a wide variety of masters in many sizes to avoid noticeable repetition of profiles



Slate Sizes	Length (inches)	Widths available (mm)							
Main Slates	19	150	175	200	250	300	350	400	-
	17	125	150	200	250	300	350	400	450
	15	125	150	180	200	250	300	350	400
	13	120	150	180	200	225	250	300	350
	11	110	125	150	180	200	225	250	300
Eaves Under (Ridge)	9	75	100	125	150	180	200	250	-
	7	100	110	120	125	135	150	-	-

All the above tile widths are approximate

Recommended laps: Minimum head lap 80mm, minimum side lap 75mm.
Recommended batten sizes: Batten section 50 x 25mm for 19" – 15" and 38 x 25mm for sizes 13" – 9"
Rafter centres: 400 to 600mm, approximately 8.3m run of batten to m² as laid. All roofing design and installation should be in accordance with the recommendations of BS 5534 'Slating and Tiling'.

Weight: Bekstone Tiles have an average laid weight of approximately 85-90kg/m² when fixed to a standard 80mm head lap. Ridge units weigh approximately 19 kg/m run; hip units weigh approximately 8kg/m run.

Ridge Units: Single size 450mm long with the wing of the ridge measuring approximately 210mm and an internal angle of 90°

Hip Units: Available in 450mm, 600mm and 900mm lengths

Ridge Vent Unit: Available in 450mm length only

Slate Vent: Available in 490mm (L) x 440mm (w)

The Bekstone House



Index of Bekstone Building Products

1. Recon walling
2. Chimney coping
3. Roof tiles
4. Apex
5. Stringcourse
6. Gable coping
7. Bullseye window surround
8. Gable vent
9. Inmediate kneeler
10. Lintel
11. Terminal kneeler
12. Jamb
13. Corbel
14. Mullion
15. Cill
16. Bandcourse & Ashlar
17. Label mould
18. Keystone
19. Porch surround
20. Chamfered plinth
21. Ashlar

Traditional & Sustainable

What Is A Sustainable House?

Sustainable housing is a part of the broader idea of sustainable building or green construction and makes use of processes that are environmentally kind and resource efficient throughout the whole life cycle of the home.

Bekstone is at the forefront of sustainability, factoring lower carbon emissions into its decision making and manufacturing, and as a result has become one of the first companies to achieve the Carbon Trust Standard. The Trust only awards companies that achieve emission reductions through their own actions with the Standard. In addition to this, we use reclaimed aggregate and recycled water in all our manufacturing processes further reducing the draw on our natural resources. Our production plants and offices also are powered by 100% 'green' electricity produced from renewable resources via generation that is Climate Change Levy exempt such as solar and wind turbines.



Bekstone has been awarded the Carbon Trust Standard, which is awarded to organisations that measure, manage and reduce their carbon footprint.

Organisations that achieve the standard are taking real action to reduce their direct impact on climate change.

The Electricity that is used to power our production machinery, light, heat and general power is supplied from renewable resources via generation which is Climate Change Levy exempt. Sources which contribute include wind turbines and hydro electric schemes.

Audited by Lloyds Register Quality Assurance within ISO 9001 : 2000.

For further information on any product in the Bekstone *Co₂efficiency* range:- Telephone: 01993 842391 email: sales@bekstone.co.uk Web: www.bekstone.co.uk



This brochure was printed in the UK using materials from sustainable forests



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