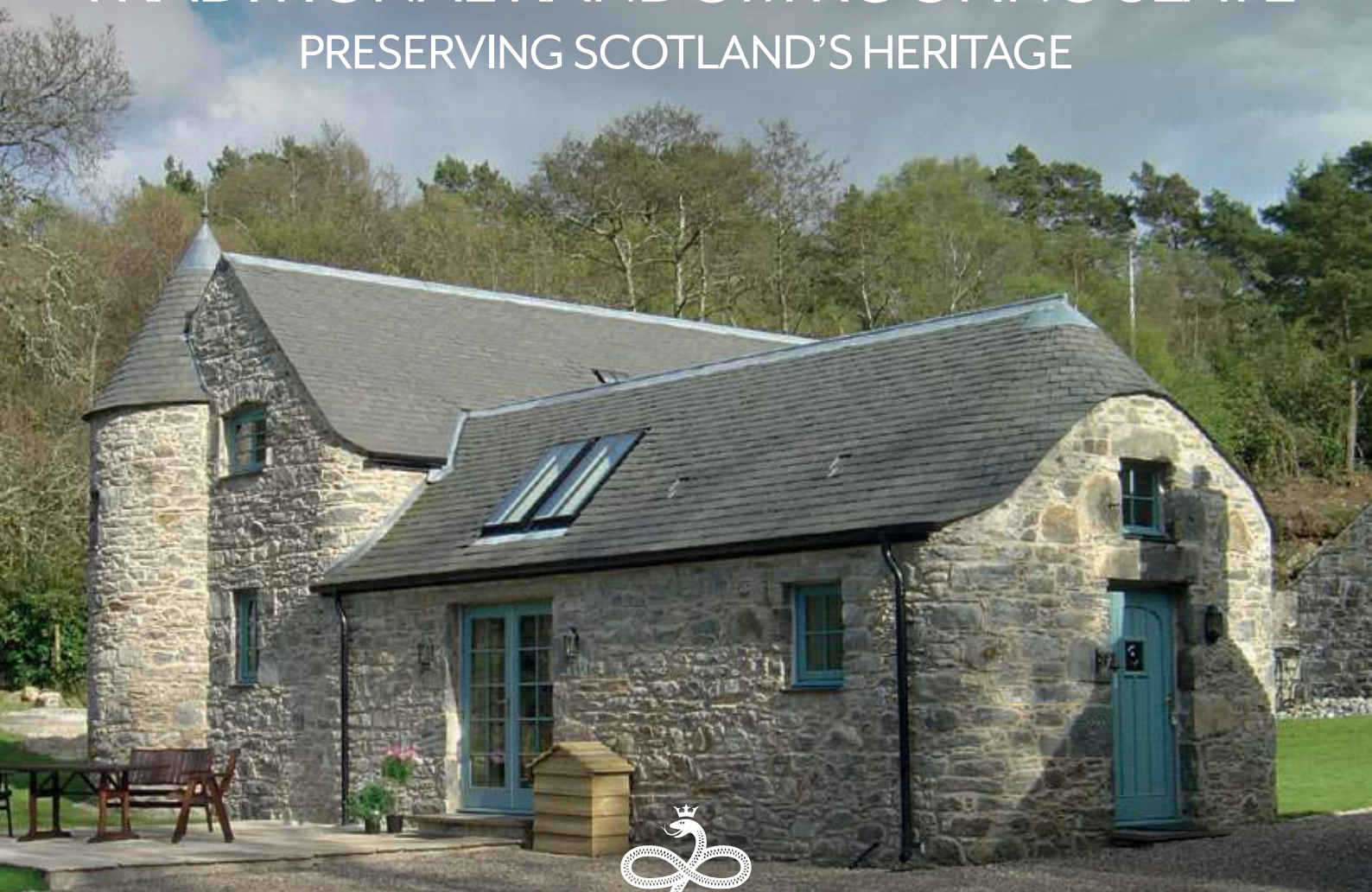


# TRADITIONAL RANDOM ROOFING SLATE

## PRESERVING SCOTLAND'S HERITAGE



**BURLINGTON  
STONE**

EST 1843



# BURLINGTON STONE

EST 1843

First worked by the Romans and then the Normans, the Cumbrian slate quarries have been a major source of roofing slate production in the UK since the 1600's. Founded in 1843, Burlington Stone are the last guardians of this ancient industry.

As was the practice with the Scottish slate quarries of old, we produce thick, random slates for laying in traditional diminishing courses. The blue/grey and green slates from our Lake District quarries offer exceptional quality to our clients and their projects throughout Scotland, such as the Burlington blue/grey slates Historic Environment Scotland chose to re-roof Stirling Castle.

Burlington's blue/grey and Westmorland Green roofing slates adorn the skyline of Scotland's cities and rural areas alike and due to their quality, durability and longevity, offer a lifetime of service to the buildings they cover, demonstrated by an ancient pedigree of proven performance that is unrivalled in the harsh Scottish climate.

The Chapel Royal, The Great Hall and The Old Chapel, Stirling Castle – Burlington blue/grey slates

Cover: The Cart Barn, Roshven – Burlington blue/grey slates



**TIMELESS**  
—  
**PRESTIGIOUS**

Burlington slates have been used on a range of projects where clients and architects have sought a material that is both functional and beautiful, whether it be for cathedrals or cottages, castles or crofts.

The White House, Isle of Coll – Burlington blue/grey slates

## THE SLATES OF SCOTLAND



The principal quarry groups in Scotland were to be found on the Northern and Southern fault lines of the Grampian Highlands: The Great Glen Fault and the Highland Boundary Fault.

The Great Glen Fault was home to the 'West Highland' slates from the Ballachulish and Easdale slate groups and although these are the best known of the slates in Scotland, the slate quarries located on the Highland Boundary Fault were prolific producers of Scottish slates and provided a rich source of material for the roofslopes of Glasgow, Edinburgh, Strlingshire and Perthshire.

All of these Scottish quarries produced small, random sized, thick, rugged slates, with broad whittling to the edges, which were quick to weather and the combination of all these subtle attributes combined to make Scottish roof slopes immediately identifiable with the quintessentially Scottish diminishing course roof such an intrinsic element of traditional Scottish architectural practice.

The last of the Scottish slate quarries closed in 1955, and while no other slates can claim to be a direct substitute for Scottish slates, Burlington slates share all of the same characteristics and are frequently chosen by architects and their clients when they want to faithfully replicate the unique Scottish vernacular style.



**SENSITIVELY  
EXTRACTED**

**EXPERTLY  
CRAFTED**

Burlington slates are sympathetically extracted from our quarries in the Lake District using highly skilled traditional craftsmen combined with modern quarrying and production techniques to ensure environmental efficiency. Two slates are produced from these quarries; Burlington blue, a blue/grey slate from the Windermere Super Group of Lakeland fells, and Westmorland green, a green slate from the Borrowdale Volcanic Group of mountains in the centre of The Lakes.

Produced in random lengths and widths the slates are laid in diminishing courses with the largest slates used at the eaves and gradually smaller sizes laid working up to the ridge. This tradition of laying slates in diminishing courses gives a distinctive visual perspective to the roof.

Slates can also be supplied in a sized format (fixed lengths with random widths) which helps to retain a traditional random element to the roof design, whilst speeding up the laying process and keeping the cost of installation down. For a regular half bond pattern to the roof, slates are available with a fixed length and fixed width.



**BURLINGTON  
BLUE / GREY**



**WESTMORLAND  
GREEN**



**BURLINGTON SLATE**

**HELPING TO PRESERVE  
SCOTLAND'S HERITAGE**

Burlington roofing slates share all of the same characteristics as Scottish slates of old, being small, genuinely random in size, thick, rough textured slates with definite weathering properties, that are produced in traditional random sizes for laying in diminishing courses, allowing the client and architect to faithfully replicate the unique Scottish vernacular style.

Whilst any set size, fixed length x random width, or random size range of Burlington blue/grey and Westmorland green slates can be manufactured, there are four sizes/grades of Burlington blue/grey diminishing course slates produced specifically for use in Scotland:

- Burlington blue/grey 18" down to 10" long x random width Sizeables.
- Burlington blue/grey 18" down to 10" long x random width Sizeable Heavies.
- Burlington blue/grey 18" down to 10" long x random width Sizeable Extra Heavies.
- Burlington blue/grey 14" down to 10" long x random width Peggies.

In keeping with traditional Scottish slates, all four are thick, rough textured slates, with the nominal thickness of the Sizeables and Peggies being 8mm, the Sizeable Heavies being 10mm and the Sizeable Extra Heavies being 12mm. The Extra Heavies have an even rougher texture, often characterised by a cross-rive.

## REASONS TO USE BURLINGTON'S BRITISH NATURAL ROOFING SLATES



1. Burlington Slate is one of the finest most durable natural materials in the world and covers the roofs of many of the most iconic historic buildings across the UK.
2. The technical characteristics of Burlington slate ensure a life span of over 150 years, providing a long term sustainable solution.
3. Burlington's slate roofing products adhere to and surpass the European quality standard BS EN 12326, achieving the highest possible classification in each of the key categories: Water Absorption ( $WI \leq 0.6\%$ ), Thermal Cycle Resistance (TI) and Sulfur Dioxide Exposure (SI). These test results are a key indication of reliability, however, even more importantly, Burlington Slate demonstrates its quality by an ancient pedigree of proven performance that is unrivalled in the harsh UK climate.
4. No part of a building is more exposed to the destructive forces of nature than the roof and, as such, it is a critical component of the building envelope from both a technical and aesthetic perspective. Burlington Slates are: Naturally Strong, Naturally Weatherproof and Naturally Beautiful.
5. Burlington Slate Limited was established in 1843 and is a family run British business with long traditions and values, where quality control and effective management and use of the natural slate reserves are important corporate goals.
6. The use of 'local' British slates on British projects ensures environmental efficiency and avoids the high and environmentally damaging 'slate miles' encountered by using imported slates on projects in the UK.
7. The company is certified to ISO 14001 environmental accreditation and aims to utilise 100% of the rock extracted from its quarry operations through the extensive recycling of all waste elements, important for BREEAM and LEED certification in building construction.
8. Burlington works closely with the BRE and The National Parks Authority to embrace best practice in environmental management.
9. Burlington is certified to ISO 9001 quality accreditation and our roofing slates conform with new CE Marking legislation, which ensures that every slate must have a Certificate of Origin and up to date technical test data. This provides protection for both the contractor and the customer that the material is fit for purpose.

## BURLINGTON SLATE— THE ENVIRONMENTAL CHOICE FOR SCOTLAND



**Located in Cumbria, the Burlington quarries are the closest working operations to Scotland and the use of 'local' British roofing slates on British projects ensures environmental efficiency and avoids the high and environmentally damaging 'slate miles' encountered by using imported slates or those from further afield in the UK.**

Burlington slate is inherently environmentally efficient. The natural cleavage in the slate, formed by the metamorphic processes it has undergone, dominates the original bedding and we work the stone using these cleavage planes provided by nature. Cleavage is used both to extract block from the quarry face, minimising the amount of sawing and blasting required, and to split ('rive') the stone for roofing slate, minimising the need for sawing and machining. All of our slate is produced by hand riving and, unlike quarries who use mechanised riving techniques that can't 'read' the stone, there is minimal wastage from this hand worked process; it truly is a low carbon natural material.

The production of random sized roofing slates, for laying in traditional diminishing courses, makes efficient use of all of the varied sized block that is won from the quarry face, helping towards 100% use of the quarried stone. This increases yields which reduces the volumes required to be extracted, minimising environmental impact and extending the life of the quarry.

As a result of its geology, Burlington slate is incredibly robust, hard wearing and extremely long lasting, and the use of a natural slate that will last the lifetime of the building it serves is sound environmental practice. Burlington roofing slates are of such high quality they are very commonly re-used after timber roof construction or fixings fail and roofs need to be re-slatted, or where buildings are repurposed. In these scenarios the existing slates can be stripped, re-dressed and re-used, further enshrining their status as some of the most environmentally appropriate natural materials in the world.

We hold ISO 14001 environmental accreditation and aim to utilise 100% of the rock extracted from our quarry operations through the extensive recycling of all waste elements, important for BREEAM and LEED certification in building construction.

In addition to the natural environmental benefits inherent in Burlington slate, we utilise solar electricity generation to minimise the use of carbon generating processes.



The White House, Isle of Coll – Burlington blue/grey slates





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The Old Chapel, Stirling Castle – Burlington blue/grey slates



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The Chapel Royal, The Great Hall and The Old Chapel, Stirling Castle – Burlington blue/grey slates



The White House, Isle of Coll – Burlington blue/grey slates



Glasgow Cathedral Visitors Centre – Burlington blue/grey slates



University of Edinburgh, George Square – Burlington blue/grey slates



Pitcaple Castle, Inverurie – Burlington blue/grey slates



Morgan Academy, Dundee – Burlington blue/grey slates



Glenalmond College, Perthshire – Burlington blue/grey slates



Loch Lomond & Trossachs National Park HQ, Balloch – Burlington blue/grey slates



Stobhall Castle, Perthshire – Burlington blue/grey slates



Davidson Mains, Edinburgh – Burlington blue/grey slates



Kilchoan Estate, Lochmelford – Burlington blue/grey slates



Easter Dullater, Callander – Burlington blue/grey slates



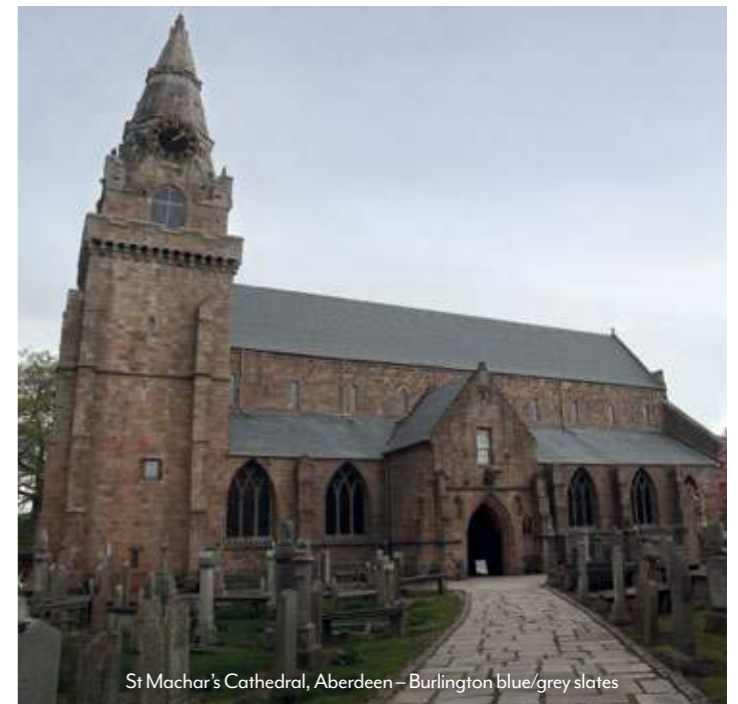
Valhalla, Strathblane – Burlington blue/grey slates



Holy Trinity Church, Stirling – Burlington blue/grey slates



Leny House, Callander – Burlington blue/grey slates



St Machar's Cathedral, Aberdeen – Burlington blue/grey slates



Cuithir (low cost housing), Isle of Barra – Burlington blue/grey slates



Shetland Museum & Archive Building, Lerwick – Burlington blue/grey slates



National Trust for Scotland Campsite, Glencoe – Burlington blue/grey slates



Keepers Cottage, Ardtornish Estate, Morvern – Burlington blue/grey slates



Kelvingrove Museum & Art Gallery, Glasgow – Westmorland green slates



St Andrews Links Golf Club – Westmorland green slates

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Lauriston Fire Station, Edinburgh – Westmorland green slates



Braid Church, Edinburgh – Westmorland green slates



St Mary's Cathedral, Edinburgh – Westmorland green slates

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Dumbarton Municipal Buildings – Westmorland green slates



Shambellie House, Dumfries – Westmorland green slates



Sciennes School, Edinburgh – Westmorland green slates





# BURLINGTON STONE

EST 1843



Federation  
**stone**  
Great Britain

Ethical  
Stone   
Register  
Verification Level



ISO 9001  
Quality  
Management  
Systems  
CERTIFIED

Q06334

ISO 14001  
Environmental  
Management  
CERTIFIED

EMS573812



Certificate No: 424432023

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