WELSH SLATE

Part of the Breedon Group

HARD LANDSCAPING

www.welshslate.com

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ADVANTAGES OF WELSH SLATE

Welsh Slate can be used for a wide variety of domestic or commercial garden and landscaping applications. The multifunctional material strikes a perfect balance of elegance and durability and maintains a constant harmony across increasingly complex environments.

Naturally beautiful, and easy to maintain, Welsh Slate can provide colour, texture and unique practical qualities for any hard landscaping project.

Welsh Slate was created over millions of years, evolving into a unique, beautiful, and dramatic material used by architects, designers and home owners.

The textures and subtle colouring perfectly compliment natural materials but is equally harmonious combined with glass, steel, and other man-made products.

SUSTAINABILITY ENVIRONMENTAL AND VALUE
Slate has been used as a building material for thousands of years, with a proven performance history, so you can be confident of durability, sustainability, and non-fading characteristics.

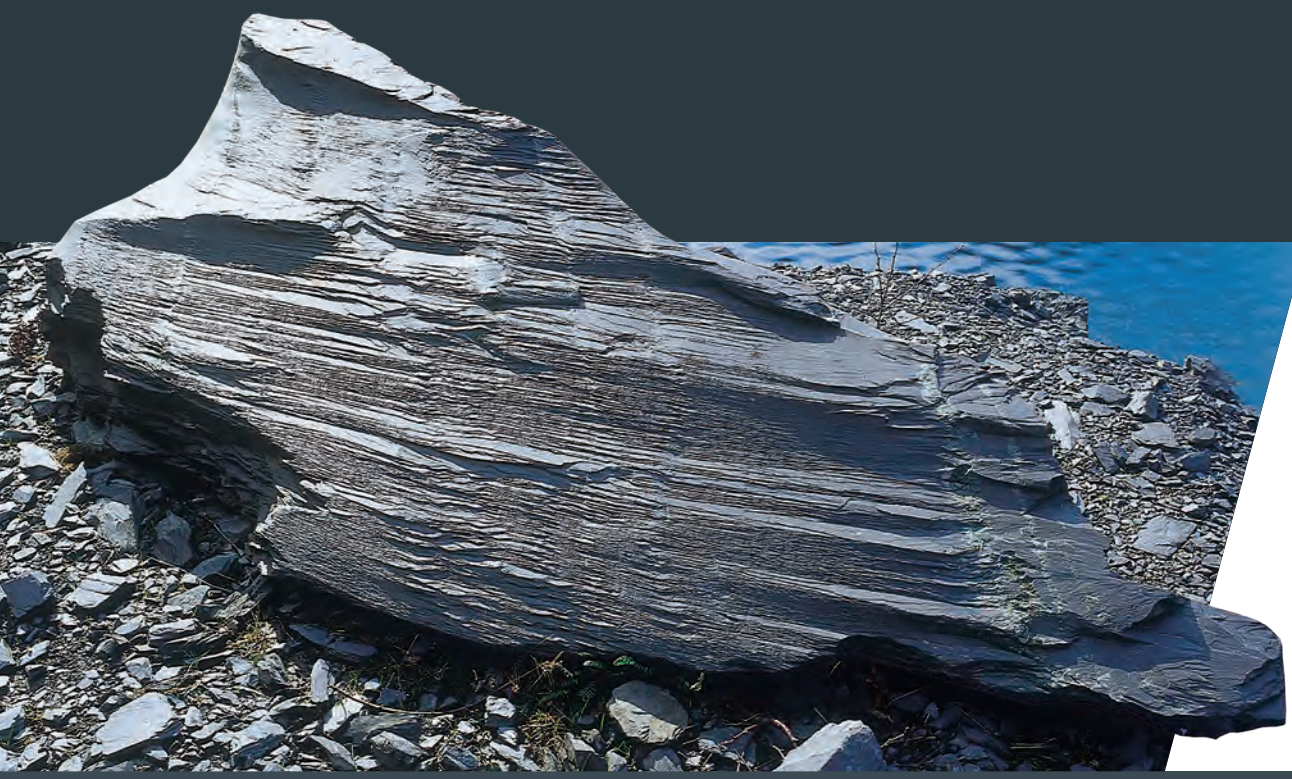
All Welsh Slate's Landscaping products are regarded as very eco-friendly with little or no further processing and have a low carbon footprint in the UK.

At Welsh Slate we are resolved to utilising every tonne of slate, where possible, for its optimum performance and value to provide a diverse range of high quality products.

Welsh Slate manufactures under an accredited Quality Assurance Scheme which complies with BS EN ISO 9001:2015.

Certifications of compliance, product & technical datasheets are available on our website.

British Association Landscape Industries
bali.org.uk



COLOURS & FINISHES

Welsh Slate hard landscaping products are available in three colours; Penrhyn Heather; subtle tones of purple, blue and sometimes shades of red, Cwt-y-Bugail Dark Blue Grey; a rich deep colour of blues and greys and Ffestiniog Blue Grey; a mix of soft mid blue grey tones, all reflecting the true nature of beauty with pleasing natural variation in tones and shades. These elegant colours are complemented with exquisite naturally occurring veins and textures that create an added dimension to any application.

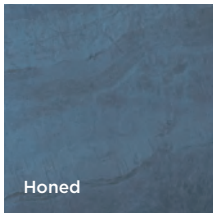
Available in a variety of standard finishes: **Riven** for a natural appearance, **Honed** for a smooth sheen, and **Machined** for a uniformed slip resistant finish. Natural slate's durability and resistance to weather, temperature, mossing and colour erosion, make it a superbly adaptable and flexible material, ideal for almost any environment.

As Welsh Slate produces only natural products from the finest raw material each slate has its own unique visual characteristics.

To realise the full potential of slate it is important for the specifier to understand the full range of finishes, colours and sizes as well as the physical properties of slate. Our technical team will work with you and samples of all our products are available.

COLOURS

FINISHES



Note: Not all products are available in all colours and all finishes

DECORATIVE AGGREGATES

A comprehensive range of our famous Plum, Blue and Grey slate decorative aggregate chippings are available in two sizes, 20mm (5-30mm) or 40mm (30-50mm). 20mm is a finer grade whilst 40mm has a chunkier profile and are available as loose loads or 400kg and 800kg bulk bags.

Extracted from our quarries in north Wales, reflecting the true beauty of nature, natural Welsh Slate can be used for a variety of garden and landscaping applications. All easily maintained, sustainable and hard wearing.

Suitable for domestic and commercial applications; paths, patios, weed suppression, improved drainage and hard landscaping projects. Natural Welsh Slate is an inspired choice providing colour, texture, interest and unique practical qualities for the gardener/landscaper, qualities which will not alter the PH values of soils and are safe to use with pond life. Welsh Slate decorative aggregates are commonly used in municipal car parks, caravan parks, golf courses and cycle tracks.

Natural slate's durability and resistance to weather, temperature, mossing, and colour erosion make it a superbly adaptable and flexible material ideal for almost any environment.

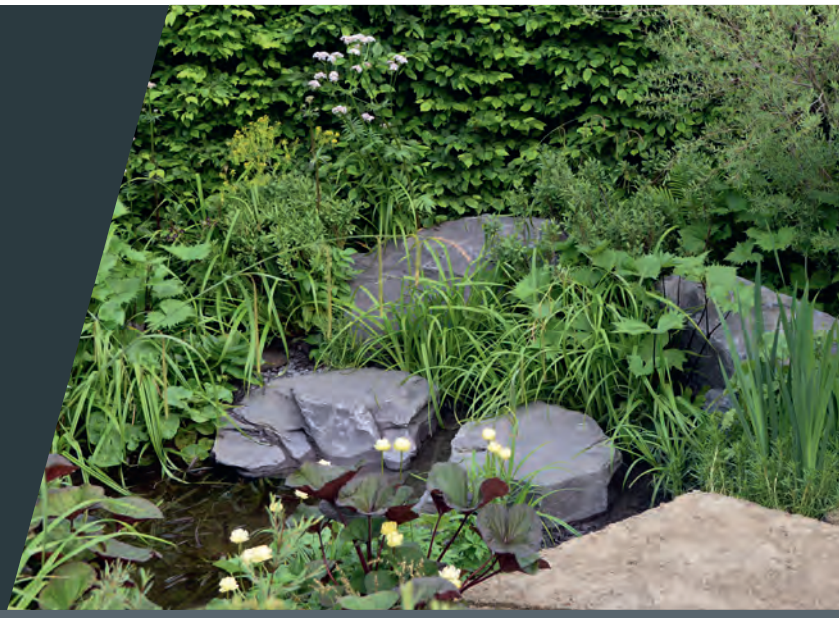
Welsh Slate's decorative aggregates are regarded as very eco-friendly with little or no further processing and have a low carbon footprint in the UK.

Testing information in relation to specific products and source of material is available upon request.

Blue

Grey

Plum



ROCKERY, FEATURE STONES & MONOLITHS

ROCKERY & FEATURE STONES
Rockery & feature stones and a little imagination can introduce individuality into a garden and larger landscaping designs.

Formed over 500 million years ago, and both practical and beautiful, Welsh Slate rockery & feature stones will complement planting schemes and add interest to garden borders.

Rockery stone, ranging from 10kg to 20kg in weight, is selected by hand for its aesthetic appearance and available in Penrhyn Heather, Ffestiniog Blue Grey and Cwt-y-Bugail Dark Blue Grey colours. These beautiful natural angular edged pieces with a flat surface are approximately 200-350mm in size and are hard wearing and colour fast, and available as loose loads or in 400kg or 800kg bulk bags.

The colours in the stone are enhanced when wet so are perfect and safe to use in water features and ponds. As Welsh Slate is inert it will not affect the pH of a pond or soil. Welsh Slate larger feature stones and glacial boulders are between 25kg to 8000kg.

Slate feature stones are large angular pieces of slate available from 0.5 metres to 3.0 metres in length and from 0.5 tonnes to 7.0 tonnes in weight. Whilst glacial boulders have softer edges and are typically 1-3 metres high and between 2-6 tonnes in weight. Both can be used in a wide range of applications including garden landscaping, architectural statements and flood defence schemes.

MONOLITHS
Wonderfully beautiful natural statement pieces, Welsh Slate monoliths will add colour, height and texture to any garden, traditional or contemporary.

They will enhance and bring a contrast to planting schemes, without impacting the pH of the soil because Welsh Slate is inert. Each monolith is unique with its natural curves, crevices and colours running throughout the rock.

Monoliths can be supplied with or without a sawn cut base in a range of sizes from 600mm up to 4m in height and are available in Penrhyn Heather, Ffestiniog Blue Grey and Cwt-y-Bugail Dark Blue Grey. Welsh Slate monoliths can be supplied to your bespoke specifications.

PAVING & PATIOS

The practical applications of slate paving need hardly be emphasised. Slate is an extremely hard-wearing material and is impervious to sunlight, water staining, fire, mossing and heavy wear.

Its outstanding practical qualities combined with its natural beauty make this slate paving material ideal for any environment, particularly when a hard wearing, low maintenance, economical and sustainable covering is required.

Available in three colours Penrhyn Heather, Ffestiniog Blue Grey and Cwt-y-Bugail Dark Blue Grey, in a natural Riven finish.

The perfect mix of practicality and aesthetics creates beautiful paving that makes a striking design impact. Slate paving is frost-resistant, and its natural grain provides slip resistance as well as a beautiful genuine appearance. To help you make the right choice our Visualiser tool on our website puts your chosen slate, grout colour and slate size into a lifestyle setting.

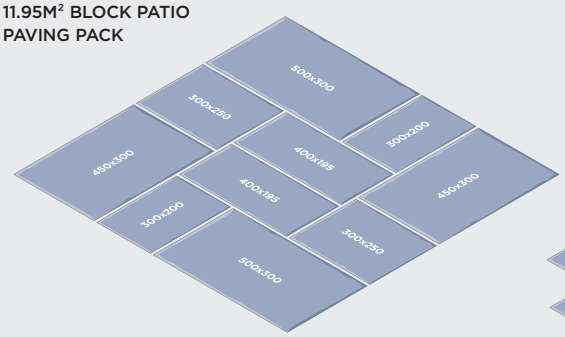
For architects and designers our paving specification information is available on the National Building Specification website NBS Source.

Welsh Slate paving can be supplied to your bespoke specification.

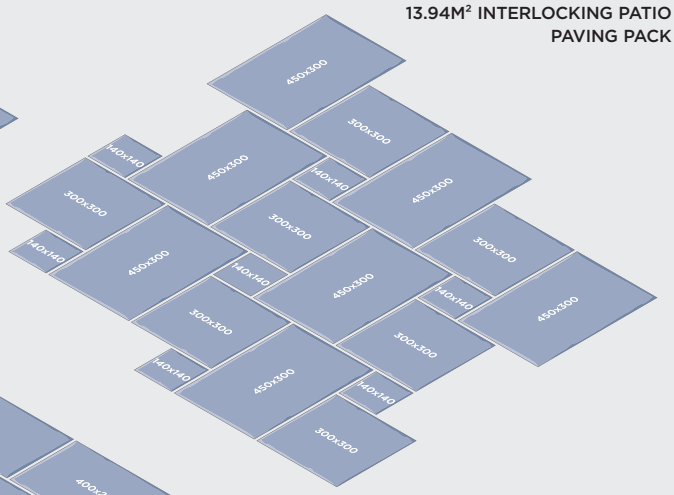
DESIGN AND INSTALLATION
British Standard, Code of Practice BS 7533 for the Design and Installation of Natural Stone paving is recommended for use as guidance.

LAYING PATTERNS

11.95M² BLOCK PATIO PAVING PACK



13.94M² INTERLOCKING PATIO PAVING PACK



13.50M² PLANK PATIO PAVING PACK

TYPICAL DIMENSIONS OF PAVING TILES AND SLABS

	Size mm	Thickness mm	M²	Weight per Unit KG	Nº of Unit per M²	Thickness Tolerance
Penrhyn Heather	200 x 250	25	0.050	3.50	20	± 3mm
	300 x 250	25	0.075	5.25	13.3	± 3mm
	400 x 250	25	0.100	7.00	10	± 3mm
	500 x 250	25	0.125	8.75	8	± 3mm
Cwt-y-Bugail Dark Blue Grey	300 x 300	20	0.090	4.86	11.11	± 3mm
	450 x 300	20	0.135	7.29	7.41	± 3mm
	600 x 300	20	0.180	9.72	5.56	± 3mm
Ffestiniog Blue Grey	300 x 300	20	0.090	4.86	11.11	± 3mm
	450 x 300	20	0.135	7.29	7.41	± 3mm
	600 x 300	20	0.180	9.72	5.56	± 3mm

PENRHYN HEATHER RIVEN PAVING PATIO PACKS ARE AVAILABLE IN THREE STYLE CHOICES

Patio Paving Packs	Sizes mm	No of Units per Size	M² Coverage (including a recommended 10mm joint gap)	Total No of Units / Weight	Plan Tolerance	Thickness Tolerance
Penrhyn Heather Interlocking 13.94m² Patio Paving Pack	450 x 300 x 25	57	14.84	171 / 900kg	± 2mm	± 3mm
	300 x 300 x 25	57				
	140 x 140 x 25	57				
Penrhyn Heather Plank 13.50m² Patio Paving Pack	400 x 250 x 25	60	14.30	120 / 900kg	± 2mm	± 3mm
	500 x 250 x 25	60				
Penrhyn Heather Block 11.95m² Patio Paving Pack	300 x 200 x 25	24	12.80	120 / 900kg	± 2mm	± 3mm
	300 x 250 x 25	24				
	400 x 195 x 25	24				
	450 x 300 x 25	24				
	500 x 300 x 25	24				

WALLING

The characteristics of Welsh Slate make it an ideal walling product and has been used extensively over the years in projects from public and other commercial buildings to private dwellings.

Pillared walling was used on the Eagles Meadow project in Wrexham, and the Welsh Assembly Building in Cardiff. Other walling products may be found on the Baltic Flour Mill, Gateshead and The Pig Hotel, Cornwall.

Welsh Slate walling is very versatile with several options of face finishes; Pillared, Rustic, Sawn and Cleaved. It is available in three colours; Cwt-y-Bugail Dark Blue Grey, Ffestiniog Blue Grey or Penrhyn Heather.

Rustic gives a striking and rugged natural appearance, **Pillared** provides a ribbed finish with a more contemporary appeal, **Sawn** is a smooth clean finish whilst **Cleaved** has a lightly textured riven surface.

Generally specified as random heights (30mm to 180mm), random lengths, (typically 100mm to 550mm), with 100mm on bed width. Welsh Slate work closely with designers and specifiers for tailored specification requirements.

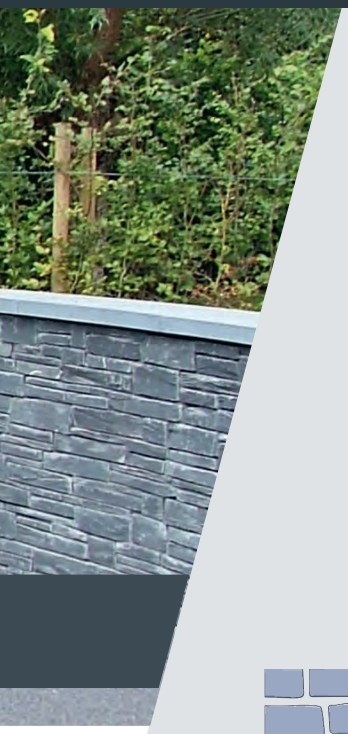
For architects and designers our walling specification information is available on the National Building Specification website NBS Source.

Rustic

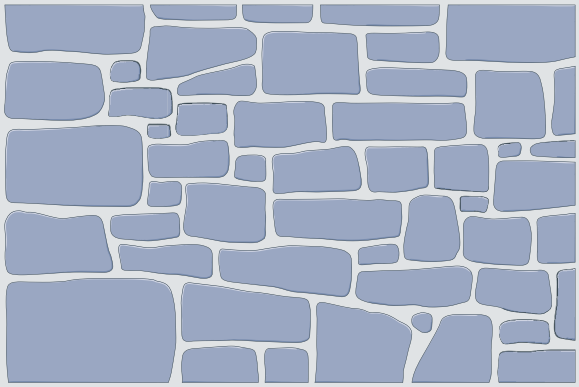
Pillared

Sawn

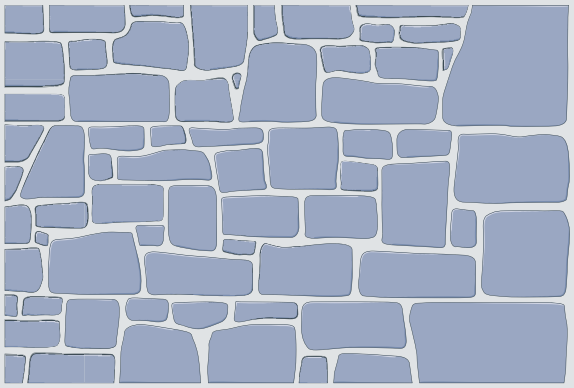
Cleaved



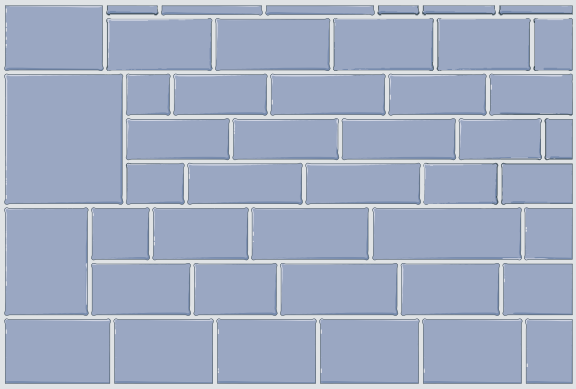
SUGGESTED WALL LAYING OPTIONS



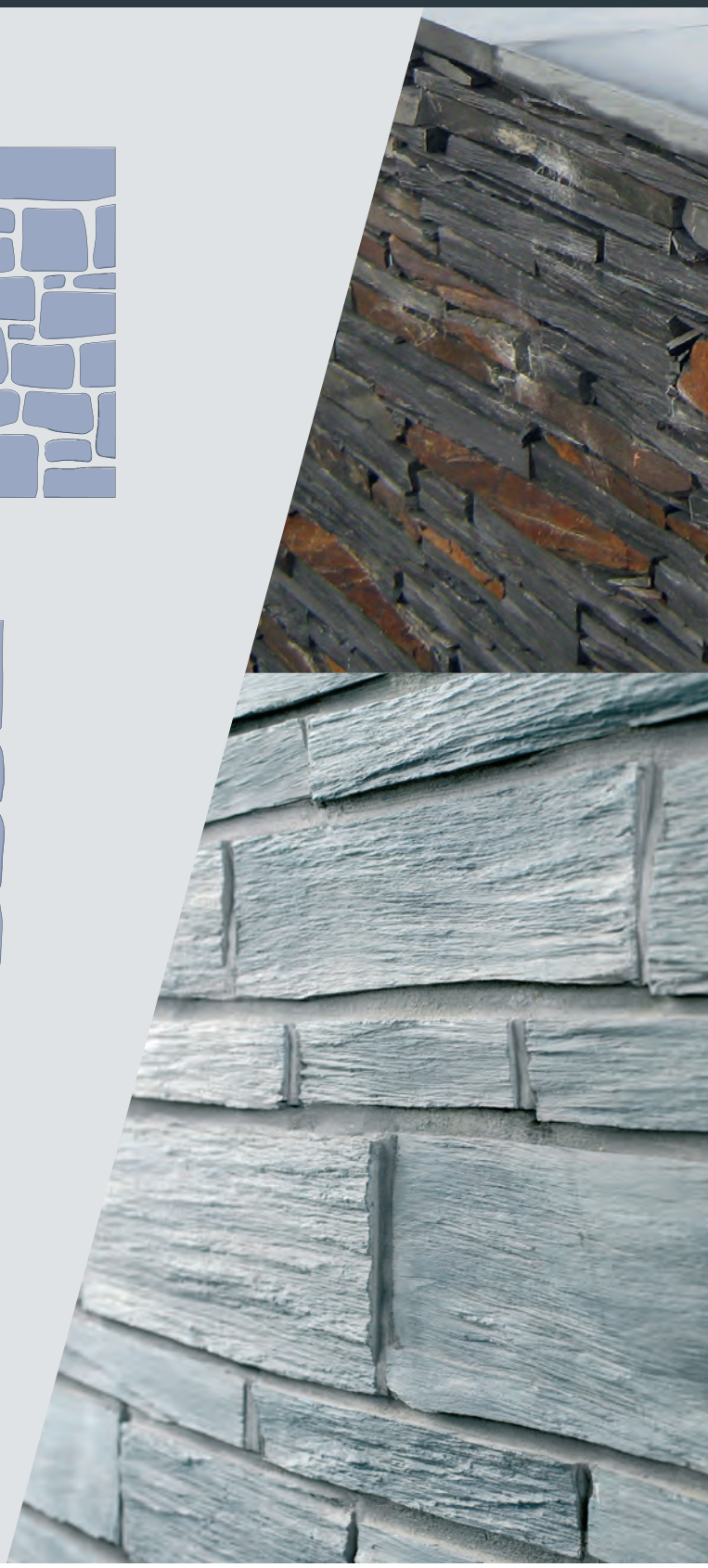
Random Length & Height, uncoursed



Random Length & Height, brought to courses



Specified Heights, random lengths



STANDARD WALLING PACK QUANTITIES

	Walling Type	Length Range (Nominal)	Height Range (Nominal)	Bed Depth (± 20mm)	Minimum Coverage per pack	Pack Weight
Standard	Pillared	550mm x 100mm	180mm to 30mm	100mm	$3m^2$ / $5m^2$ per pack	850kg / 1650kg
Standard	Rustic	500mm x 100mm	180mm to 30mm	100mm	$3m^2$ / $5m^2$ per pack	650kg / 1100kg
Standard	Sawn	550mm x 100mm	180mm to 30mm	100mm	$3m^2$ / $5m^2$ per pack	850kg / 1650kg
Non Standard	Cleaved	400mm x 200mm	150mm to 50mm	100mm	$3m^2$ / $5m^2$ per pack	850kg / 1650kg

COPINGS, STEPS & THRESHOLDS

COPINGS
Welsh Slate coping stones provide the finish detail and are available in Penrhyn Heather, Ffestiniog Blue Grey and Cwt-y-Bugail Dark Blue Grey.

Copings can be flat, weathered or saddleback. Flat copings are available Honed for a smooth finish, a Riven finish for a natural textured look or Sawn for an industrial surface and are very popular with modern and heritage designs alike. Saddleback coping are available in Honed and Sawn finishes.

The ability to withstand harsh weather conditions make it the best choice of material to protect your wall. Welsh Slate manufacture copings to your bespoke specifications.

STEPS & THRESHOLDS
Our beautiful Welsh Slate steps and thresholds can be used both internally and externally and can create both the perfect traditional or contemporary finish.

Steps and thresholds are hand finished to perfectly complement our paving range. They need very little or no maintenance, come in three colours, Penrhyn Heather, Ffestiniog Blue Grey and Cwt-y-Bugail Dark Blue Grey and four finishes; Riven, Honed, Machined and Sawn.

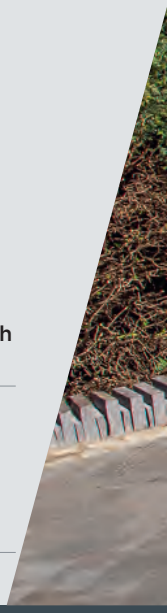
FENCING

Welsh Slate fence panels are a perfect example of sustainability as they will not rot or fade and are particularly well-suited to harsh weather conditions.

Available in a choice of colours; Penrhyn Heather, Ffestiniog Blue Grey and Cwt-y-Bugail Dark Blue Grey, and a variety of width and height options, but can also be tailored to bespoke sizes. Normally split by hand to 25mm-35mm with natural or sawn edges and a natural top. The ends of the slabs are buried, cantilevered, and bound together by a twisted wire. It's a simple and sustainable fencing solution.

Originally, slate fencing was used to mark fields, gardens, railways lines and roads but today they are a popular choice as an alternative to stone walling and create a defining feature of the landscape in rural settings. Welsh Slate work closely with designers and specifiers for tailored solutions to specifications.

Source	Product	Size or Specification	Finish	Specification/ Description	Plan Tolerance	Thickness Tolerance	Bed Width Tolerance
Penrhyn, Festiniog & Cwt-y-Bugail	Standard Fencing	Lengths: Up to 1400mm Widths: Up to 400mm Thickness: 30mm	Cleft finish both faces with one end sawn	Loose specification as lengths and heights are random	± 100mm	± 5mm	n/a



FEATURES & BENEFITS OF WELSH SLATE

- UK manufacturer
- Low carbon footprint in the UK market
- Traditional UK building material used for hundreds of years
- Sustainable natural material with little or no processing and will last for hundreds of years
- Chemically inert, highly resistant to acids, alkali's, and other chemicals
- Dense material, highly durable
- Colour-fast, colours will not fade
- Choice of colour and finishes, aesthetically pleasing
- Strong in tension and compression which allows for a wide range of uses
- Low life cycle costs
- Unaffected by normal extremes of temperature, frost & UV resistant
- Unaffected by fungi, moss, insects, animals, or birds
- Stain resistant
- Nonporous, fish friendly
- Ecological friendly

QUALITY ASSURANCE

Welsh Slate products are produced by one of the world's largest manufacturers of natural slate who are accredited with the highest international standards including ISO 9001:2015. You can be assured that the most stringent quality control measures are taken at every stage from extraction through to delivery.

ENVIRONMENTALLY RESPONSIBLE

Welsh Slate has achieved ISO 14001 Environmental Management Systems accreditation and are totally committed to restoring and remodelling landscapes effected by quarrying.

Cert No. 14622

Cert No. 14622

Roofing / Walling / Flooring / Paving / Aggregates / Minerals / Cladding / Hard Landscaping

CUSTOMER SERVICES
Welsh Slate offer the following free services:

Technical Advice
Sample Service
Guide Price Costings
RIBA Approved CPD Seminars & Factory Tours

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For more information or to request a sample please contact our sales office on **01248 600 656** or email **enquiries@welshslate.com**.

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Due to the limitations of reproduction and printing, the colours of the slate shown in this brochure are representative only.

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