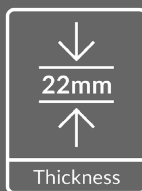


# Product Data Sheet

WS0028

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## Welsh Midnight Limestone (Hand Cut)



# Description

Product Name:	Hand Cut Welsh Midnight Flagstones
Appearance:	A sedimentary limestone that has naturally varying dark grey/black shades that can lighten as it weathers. Naturally lightly riven, split surface finish with hand dressed edges.
Product Type:	A fine grained, hard limestone, predominately consists of calcite, carbonaceous matter and iron oxide; with minor amounts of other minerals. The grains are cemented by calcarious materials.
Area of Origin:	Andhra Pradesh, India
Governing Standards:	All data, where relevant, to be established in accordance with BS EN 1341:2012.

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## Physical Properties

Nominal Sizes (as laid including joints):	Project Pack 900 x 600 x 22mm (16No. per pack) 600 x 600 x 22mm (16No.) 600 x 300 x 22mm (16No.) 300 x 300 x 22mm (12No.)
Size Tolerances:	Length +/- 10mm Width +/- 10mm Thickness +/-3mm
Water Absorption:	0.04% (maximum)
Slip/Skid Resistance:	Satisfactory - low potential for slip 55 USRV Wet (minimum) 70 USRV Dry (minimum)
Abrasion Resistance:	16.02mm (maximum)
Flexural Strength:	37.73MPa (minimum)
Durability:	Frost resistant

# Design Guidance

## Suitability:

Indoors or outdoors - domestic and light commercial pedestrian use only. For indoor use, we'd recommend the use of a proprietary sealer, appropriate for your specific needs.

Paving should be laid on a full mortar bed with largest face uppermost with 10-15mm joints. For more installation advice, please refer to our Planning, Install & Care Guide on our website – [www.westminsterstone.com/hand-cut-welsh-midnight-flagstones](http://www.westminsterstone.com/hand-cut-welsh-midnight-flagstones)

For a layout example, please refer to our Laying Guides section on our website product page: [www.westminsterstone.com/hand-cut-welsh-midnight-flagstones](http://www.westminsterstone.com/hand-cut-welsh-midnight-flagstones)

De-icing salts will not affect the durability of the paving but it can discolour the paving so the surface should be thoroughly cleaned once the need for de-icing salts has receded. Be aware, de-icing salts may damage your pointing depending on the type of pointing product/method. There are chemical granules on the market that act in the same manner and will not damage any surfaces, they also purport to be much cleaner and environmentally friendly.

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## Accessories

We have two ranges of Welsh Midnight cobbles & block paving to complement this range.

In addition, we have a range of Garden Gravels, Garden Features and Garden Path Edgings that compliment this paving range to achieve that finishing touch.

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## Supply

### M<sup>2</sup>, No. & Weight per pack:

4 size project pack = 18.9 M<sup>2</sup> = 60No. mixed / 900KG  
600 x 600 = 14.14 M<sup>2</sup> = 38No. / 850KG  
900 x 600 = 17.8 M<sup>2</sup> = 33No. / 900KG

### Packaging:

All packs are crated, suitable for FLT or crane off-load.

Colour Variation:

Each piece of stone and each batch of stone is unique. Each individual stone may lighten with weathering completely uniquely. During install, use product from multiple pallets to ensure a natural blend, even if your packs are batch matched. Any slabs with characteristics that are not to your liking, either use for cuts or install in a more inconspicuous area.

Please note:

Due to the nature of the product and their transportation methods, scuffing and scratch marks may be visible on the surface of units following transportation and handling. If such marks are apparent, they will weather away naturally due to the through colour nature of the product.

The product is washed after calibration, but some individual slabs or batches may still be affected by the dusty by-product of the process. This will clean off with light washing.

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## Further Information

Cleaning and Maintenance:

For more detailed advice, please refer to our Planning, Install & Care Guide on our website – [www.westminsterstone.com/hand-cut-welsh-midnight-flagstones](http://www.westminsterstone.com/hand-cut-welsh-midnight-flagstones)

Generally, cleaning with soapy water and a broom is adequate in most conditions. Inappropriate use of power washers may damage your pointing. If using a power washer, we'd recommend fitting a rotary cleaning head for the most efficient results

We strongly recommend against the use of hydrochloric acid-based cleaners.

In most domestic settings, there is no real need to seal or impregnate your paving. Regular cleaning and maintenance are usually sufficient. Before applying any chemical cleaners or sealants, we strongly recommend taking advice from the manufacturer of the chemical to ensure it is appropriate for your paving, even then, always test an inconspicuous area first before widespread use to ensure a satisfactory outcome.

Sweep leaves regularly. Gathered leaves can quickly decompose and leach tannins that may discolour all hard landscape products. They also encourage algae bloom and other organic growths.

Mineral Content & Variations:

Limestones may individually lighten naturally with weathering due to the calcite content.

Whilst uncommon, weathering and site conditions can cause new shade variation and patches to appear, sometimes in the form of mineral content as it naturally displays, e.g., iron content can oxidise with rusty coloured patches.

Limestone paving can exhibit mineral veins. These can appear to be hairline cracks or fault lines where moisture may exhibit slightly longer than the rest of the surface. Be assured, they are not cracks or faults, they are part of the natural geology of the stone and will not affect the long-term performance or durability of the individual paver.

Occasionally, the edges and corners of riven limestones can be quite rustic. This is part of the individual appeal of the limestone ranges.

Weathering:

It should be appreciated that with all products can display weathering characteristics and individual site conditions can cause shade variation to appear across the surface of individual units. Some maintenance is recommended on all sites and all products. Lighter colours tend to show dirt and darker staining agents more clearly than darker colours, alternatively, darker colours may show lighter staining agents more. Algae, lichens, other organic growths and organic staining can affect any surface in an external environment

All hard landscaping products can exhibit surface discolouration when soiled or contaminated.

Product Evolution & Specification:

We are continually improving our product design and processes and information is subject to change without notice. We reserve the right to change specification without notice. All sizes, coverages and weights are approximate and subject to tolerances.



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