RIVERSTONE PHYLLITE

THE EVOLUTION OF SLATE

SSQ

ARUN DISTRICT COUNCIL M/22/21/DOC

RIVERSTONE®

sediment → shale → slate → phyllite slate

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Christian Centre, London, England

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SSQ

SSQ is one of the world's leading quarriers and suppliers of high-grade, unfading natural roofing slate. Our principal markets are in Europe and North America. Our exports are as far afield as Australia, Trinidad, Norway and Japan - in all, over 20 countries.

Owners, architects and installers choose our slates for their:

- Exceptional colour stability.
- Exceptional weather resistance (surpassing the strictest international standards).
- Suitability for significant historic and distinctive contemporary structures.

Riverstone, featured here, is our signature slate.

SSQ Headquarters, London

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Royal Infirmary, Dundee, Scotland

Riverstone

sediment → shale → slate → phyllite

Riverstone is phyllite stone.

Phyllite marks a culmination: It is what happens when the geological forces that form slate are permitted to continue. With each step - from sediment to shale, from shale to slate and from slate to phyllite - the stone becomes harder, denser and stronger.

Phyllite is rare - there are just a handful of quarries worldwide. Of these, only a few produce stone with the cleavage characteristics needed to make roofing tiles.

We own and operate the San Luis quarry in La Repressa, deep in central Argentina, between the Pampas and the high Andes. Quarried for centuries, its enormous reserves date back 640 million years to the pre-Cambrian era.

Riverstone phyllite offers superior performance for the most demanding requirements.

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Trusted source

Riverstone is one of the few slates that have been accepted in the past as a suitable alternative to indigenous slates on buildings of historical significance across the country.

An example of this can be found on the right, where Riverstone was chosen to replace a 300-year roof supplied from local materials in Brecon, Wales.

It has also been accepted for use in conservation areas to help preserve the character of these parts of the country.

Christ College, Brecon, Wales

United Church of Christ the Cornerstone, Cornwall, England

Quality assurance

Tested

Riverstone has surpassed the strictest testing requirements. It has achieved the highest classifications in the US and UK.
(See page 8 for details)

Guaranteed

We stand behind our slate. Consistent with its history of use and test results, Riverstone is guaranteed to last in excess of 100 years.

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Technical Support

SSQ's technical support team can help you achieve a range of effects on straight or curved surfaces, using standard or special shapes, random widths and/or graduated lengths. Our team is able to supply detailed sketches and advice, concerning specification, quantity take-off, cost-comparison and overall strategy to achieve an optimum installation.

Elvestone, Devon, England

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Helsinki, Finland

Environment

Roofing slate is naturally green. It is non-toxic, not petrol based and non-leaching. Other products have to be synthesized and then processed. Already formed, natural slate removes synthesis from the equation, reducing CO2 emissions.

Riverstone's exceptional longevity allows it to do the work of 2, 3 or 4 other roofs. Doing more with less: this is the essence of sustainability.

But we do not rest on the laurels of our exceptional stone. Through a policy of continual improvement, our yields have steadily climbed over the years. We now help to set the standard for efficiency in the slate sector.

Flock House Farm, Aberdeen, Scotland

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Product performance

Surpasses International standards

Riverstone has been tested and has surpassed the strictest international quality standards:

- UK: BS EN 12326 - Achieves W1-T1-S1 (highest classification)
- US: ASTM C 406 - Grade S1 (highest)

Characteristics

Riverstone's unique phyllitic structure and composition produce a slate that is highly resistant to the physical and chemical processes that age building stone of any type. Riverstone slate is characterized by:

- **Exceptionally low water absorption (achieves W1 classification)**

  Far outperforming test requirements, Riverstone slate's exceptionally low water absorption allows it to withstand extreme freeze-thaw cycling, as well as salt exposure, that can weaken more absorbent slates. Riverstone is well-suited to the harshest climates.

- **Exceptional weather (acid) resistance (achieves S1 classification)**

  Far outperforming test requirements, Riverstone slate's exceptional weather resistance makes it nearly impervious to atmospheric pollutants.

- **Exceptional strength (achieves modulus of rupture greater than 60MPa)**

  Far outperforming test requirements, Riverstone slate is cut along the grain - an extra precaution that maximizes load resistance.

- **A virtual absence of deleterious minerals such as pyrite and calcite (achieves T1 classification)**

  Riverstone's virtual absence of deleterious minerals prevents fading and weakening caused by oxidation and mineral conversion (mineral conversion occurs, for example, when calcite in lower-grade slate converts to gypsum, which in turn swells and stresses the slate's substrate causing it to degrade prematurely).

Private residence, Cornwall, England

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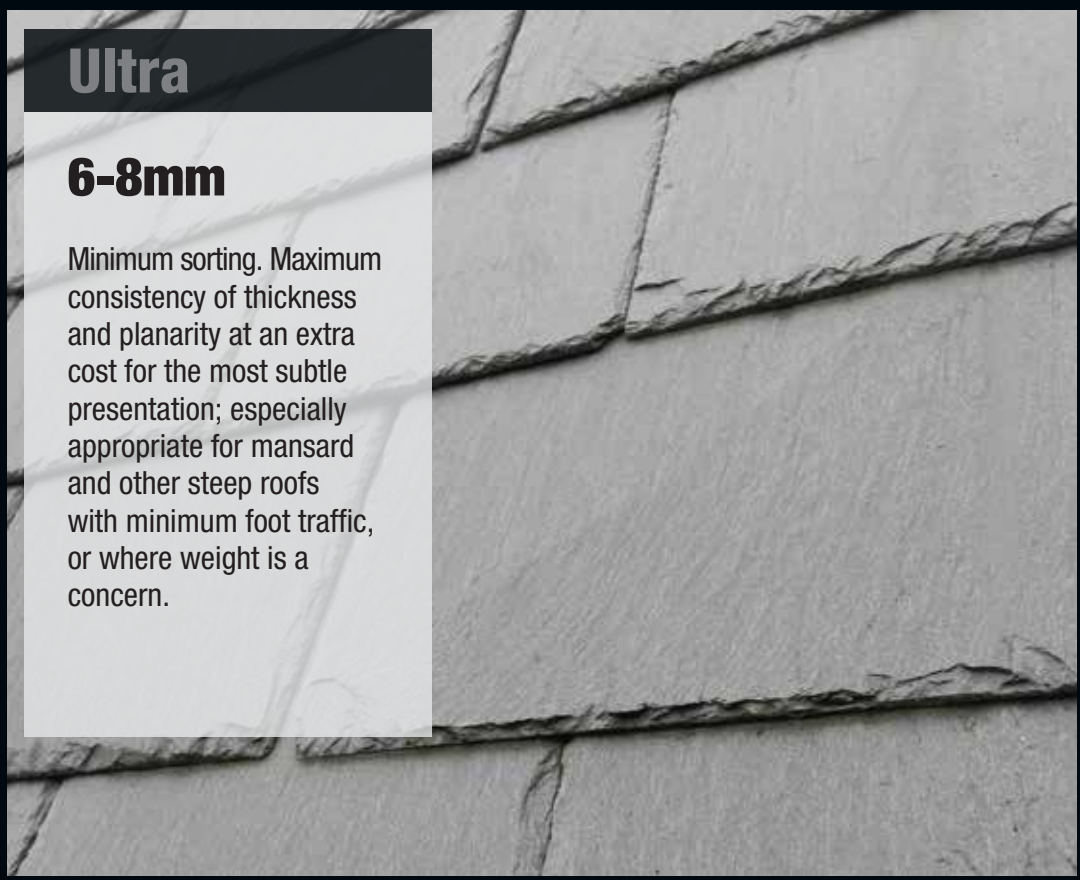
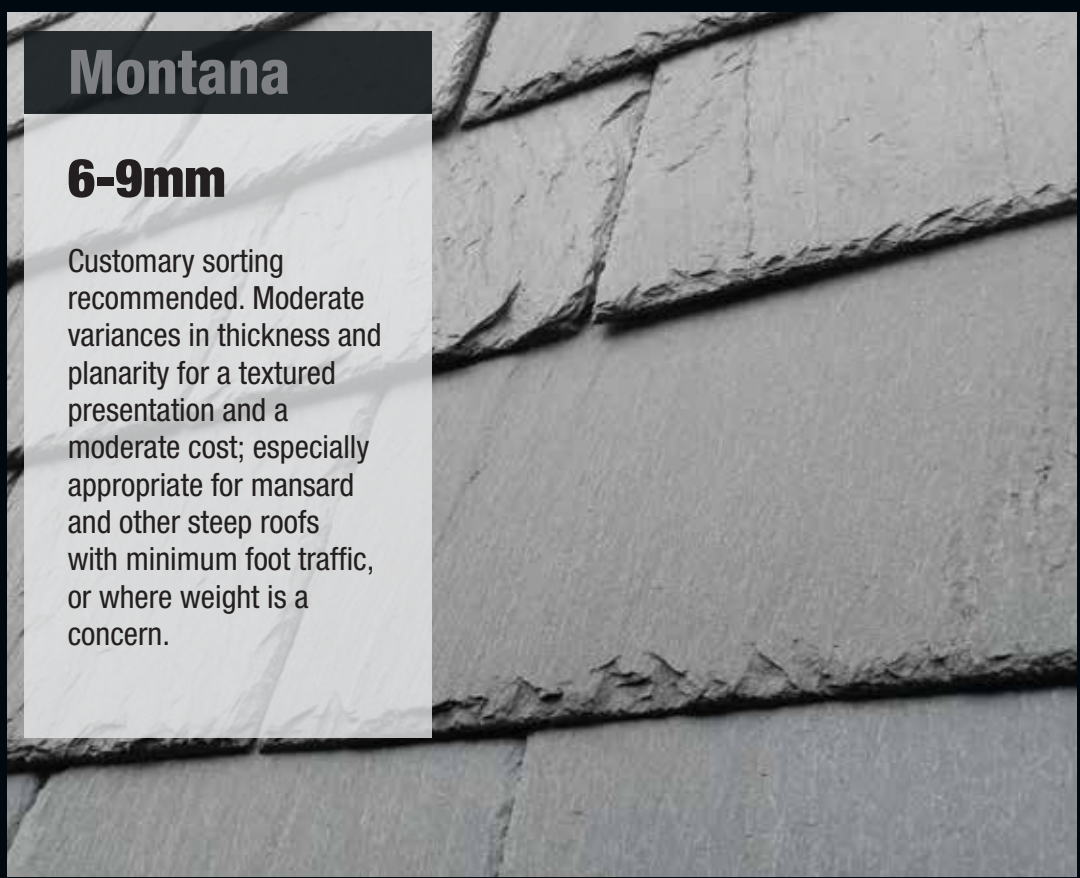
Selections and thicknesses



Ultra

6-8mm

Minimum sorting. Maximum consistency of thickness and planarity at an extra cost for the most subtle presentation; especially appropriate for mansard and other steep roofs with minimum foot traffic, or where weight is a concern.



Montana

6-9mm

Customary sorting recommended. Moderate variances in thickness and planarity for a textured presentation and a moderate cost; especially appropriate for mansard and other steep roofs with minimum foot traffic, or where weight is a concern.

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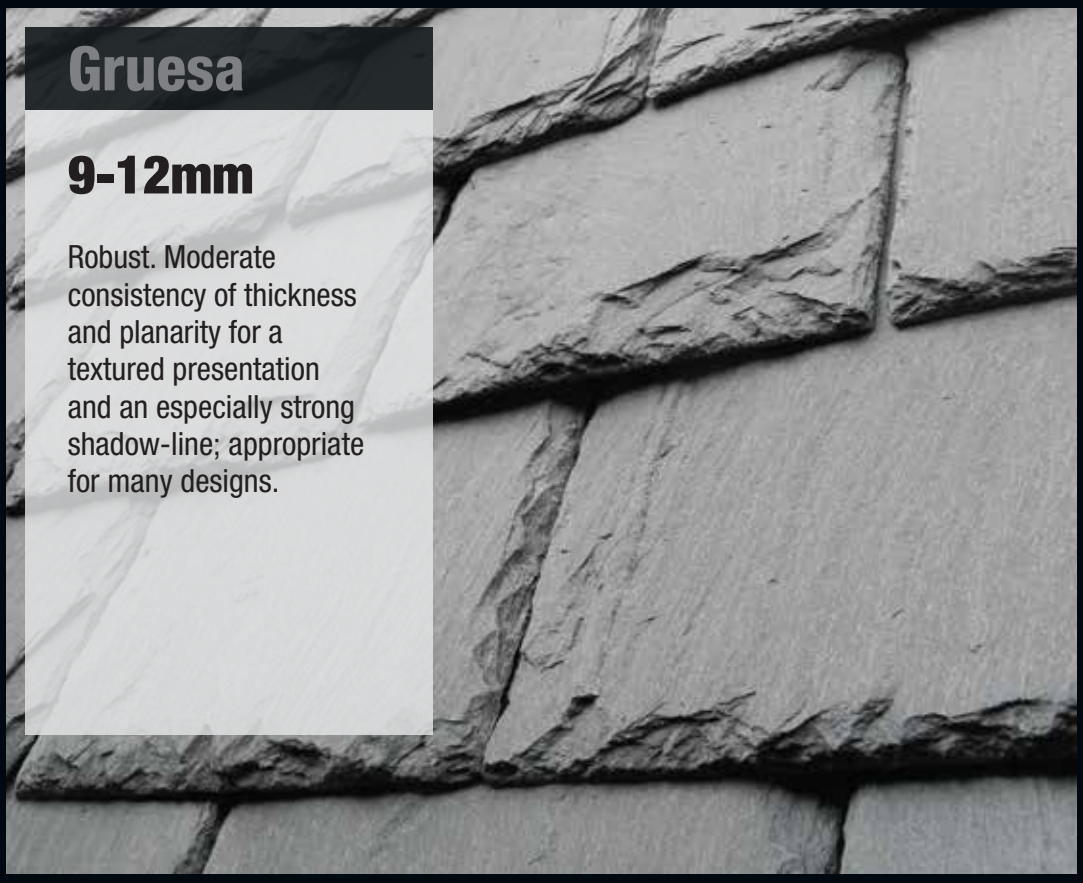
Selections and thicknesses



Gruesa

9-12mm

Robust. Moderate consistency of thickness and planarity for a textured presentation and an especially strong shadow-line; appropriate for many designs.

Dimensions and weights*

Size (inches)	**Size** (mm)
24x12	600x300
20x12	500x300
20x10	500x250
18x12	450x300
16x10	400x250
16x8	400x200
14x8	350x200
12x8	300x200

Selection	**Thickness** (mm)	**Weight per m2** (kg)
Ultra	6-8	43
Montana	6-9	45
Gruesa	9-12	65

Please contact us if you require other sizes, thicknesses or shapes.

*All dimensions and weights are nominal approximations. Slates are cut to metric measure.

Notes

Colours and textures have been rendered as accurately as possible; the photographic process and the nature of natural stone prevent exact representations.

Being a natural product, slate's physical and chemical characteristics can vary.

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University of Bristol, Gloucestershire, England

Private residence, Gloucestershire, England

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The Terrace, Rhymney, Wales

ARUN DISTRICT COUNCIL W22/21/DOC

Private residence, Stockholm, Sweden

Oak House, Scottish Borders

Lady Cottage, Perthshire, Scotland

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SSQ Group, August 2018

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