Canadian Natural Slate

Created *by*
Nature
Crafted *by*

GLENDYNE

In partnership with

BURTON ROOFING Merchants Ltd

Glendyne
Natural Roofing Slate

Glendyne slate is produced in the town of *Saint Marc du Lac Long, Quebec, Canada.*

The slate has a fast growing reputation for quality due to the exceptional slate deposit and the combination of modern extraction technology with traditional finishing skills.

Produced from deposits laid down in the Ordovician era some 500 million years ago this quarry was first opened by British slate quarrymen in the early part of the 20th century. Roofs with Glendyne slate can still be seen today around the area of the quarries, some 90 years later.

Re-opened by a local family, Glendyne is manufactured to the highest standards in two thicknesses, **Glendyne Fours** which are 4 to 5mm thick and **Glendyne Fives** which are 5 to 6 mm thick.

Glendyne slate will withstand the most severe weather conditions: it is unaffected by sunlight, ultraviolet light and even acid rain. Laid correctly Glendyne slate will last the lifetime of the building and is ideal for use on any major project including supermarkets, schools, city offices and prestige homes.

Since 2007 Glendyne slate has been approved by the **Snowdonia National Park Authority** as acceptable for use within the boundaries of the national park as it is equivalent in colour, texture and weathering characteristics to slates from the Blaenau Ffestiniog area.

Throughout the process, the requirements of the quality control system are meticulously applied to ensure the production of quality slates and thus meet the high expectations of our customers worldwide. Open to our customers' needs in order to continuously improve the quality of our products and services. Each crate can be identified to allow traceability to the source.

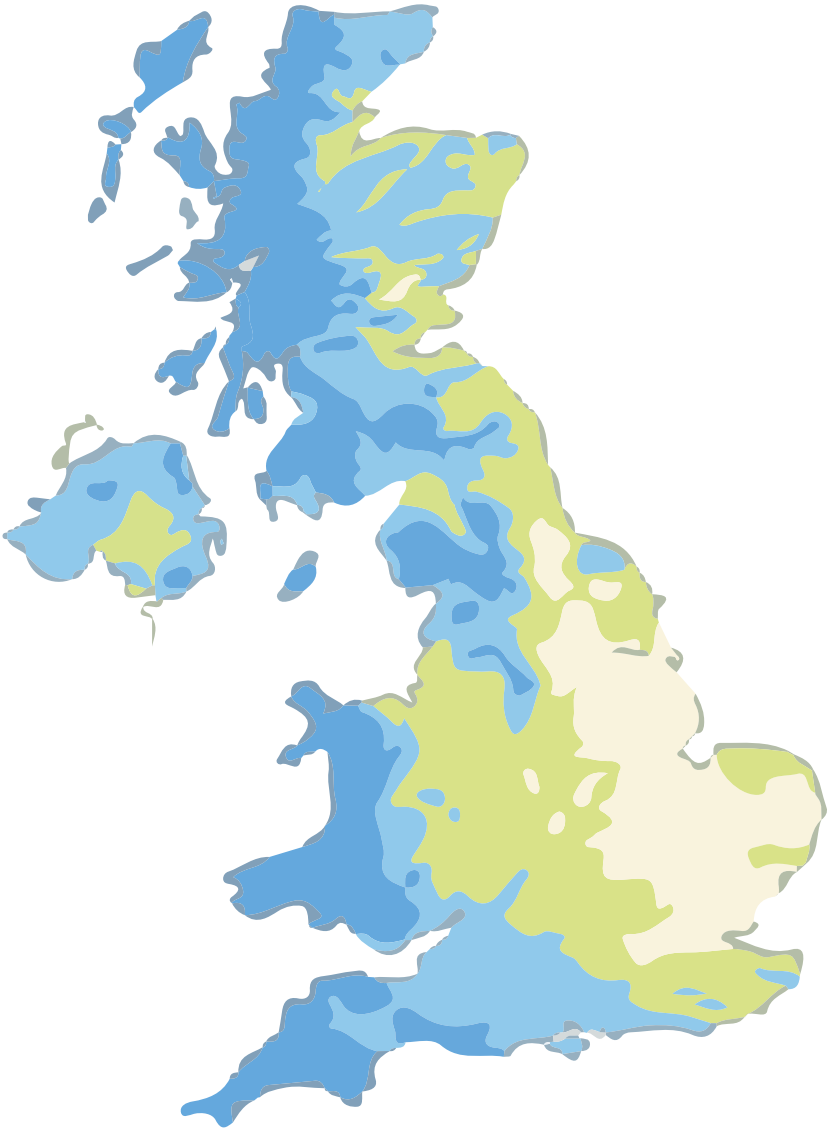
Approved for use in **Snowdonia National Park**

PARC CENEDLAETHOL ERYRI
SNOWDONIA
NATIONAL PARK

General design considerations

Glendyne slates must be laid in accordance with the Code of Practice for Slating and Tiling, BS 5534 and the Code of Practice for Workmanship on Building Sites – Slating and Tiling, BS 8000.

Slates laid to BS 5534 will meet the strength requirements for the imposed and uniformly distributed wind and snow loads etc. The site exposure rating and the pitch of roof rafters will determine the size, pattern, lap and fixings for the slates.
For UK and Northern Ireland locations, BS 5534 will indicate the expected degree of exposure.



Wind exposure zones.

- Very severe
- Severe
- Moderate
- Sheltered

BS 5534 the code of practice for Slating & Tiling

Technical Specifications

Glendyne slates are available in a variety of sizes, in blue/grey. Glendyne is classified as having a flat texture according to **BS EN 12326**.

Dimensions (mm)	406 x 254mm	457 x 254mm	508 x 254mm	508 x 254mm	508 x 305mm	610 x 306mm
Thickness (mm)	5-6	5-6	4-5	5-6	5-6	5-6
Typical quantity in crate	855	725	850	725	720	565
Average weight per crate (kg)	1315	1315	1315	1315	1525	1525
Average weight per slate (kg)	1.42	1.58	1.50	1.75	2.08	2.65
Slates per m² laid on roof	25.56	21.93	19.20	19.20	17.26	12.81
Average weight Kg per m² laid on roof	36.30	34.65	28.80	33.60	35.90	33.95
Pre-holed for minimum head lap (mm)	98	98	98	98	128	98
Batten gauge (mm)	154	180	205	205	190	256
Above settings based on minimum roof pitch (subject to recommendations of BS5534)						
Moderate exposure to wind driven rain < 56.5 l/m² per spell	30°	25°	25°	25°	20°	25°
Severe exposure to wind driven rain > 56.5 l/m² per spell	30°	22.5°	30°	30°	22.5°	30°

75 Year Product Guarantee

Glendyne Case Study
Netley Chapel

Glendyne natural slates installed on a unique renovation project for the Historic Hampshire landmark. Royal Victoria Country Park was once the site of the world's largest military hospital, the Royal Victoria Hospital Now, all that remains of the original hospital structure, which fell into decline after being severely damaged by fire in 1963, is Netley Chapel.

Thanks to a multi-million pound grant from Hampshire County Council and the Heritage Lottery Fund, the Victorian-era building has recently undergone extensive renovation, and now marks the beginning of a new chapter for the chapel.

American Standard ASTM C406 Grade S1

Fairfield Park Lower School

Modern performance and period aesthetics are perfectly combined in the natural slate roof of Fairfield Park Lower School near Hitchin, Hertfordshire.

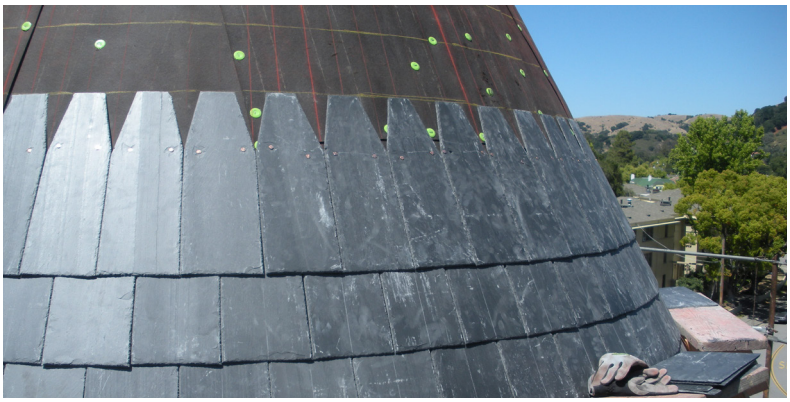
Newly constructed in Victorian style, the school has a roof that uses Glendyne natural slates to create the look of a traditional school building that harmonises seamlessly with the static surroundings.

The Fairfield Development comprises of some 900 dwellings of different housing types and about 100 apartments in the converted Grade II listed former hospital building. Central Bedfordshire Council decided that this new development would be best served by a new lower school so the 150-place school was constructed.

The school building design reflects the Victorian country estate theme featuring brick facing, wood sash windows and a pitched Glendyne slate roof.

A Unique Slate of Exceptional Quality

At Glendyne, quality is the priority and therefore opted for “top-choice.” As a result, we only deliver top quality slate. The slates are, checked individually by our skilled experts before being stored in crates. Slates that don’t meet Glendyne’s appearance, thickness and quality criteria are immediately set aside to be re-cut into different sizes until they satisfy company standards.



The “top-choice” allows Glendyne to offer an easy-to-use slate that satisfies the expectations of the most demanding roofers, who know how profitable it is.

Quality System based on ISO 9001

bsi. ISO 9001:2015 Quality Management

FS693610

Accreditations and Standards

Glendyne slate is a tough natural material and samples are regularly tested to the following national standards: Glendyne is categorised as an S1 slate to ASTM C406. With an expected service life in excess of 75 years. Peace of mind on a roof.

British Standard

BS EN 12326-1: Product specification for roofing slate.
- Exhibited the top Class W1 for water absorption.
- Exhibited the top Class T1 for thermal cycle resistance.
- Exhibited the top Class S1 for sulphur dioxide exposure resistance.
- Good flexural strength both transversely and longitudinally.
- Acceptable non-carbonate carbon content.

American Standard

American Standard ASTM C406-06 standard specification for roofing slate.
- Flexure test-modulus of rupture & elasticity (C120-06).
- Weather resistance (C121-06).
- Water absorption (C217-94).

Glendyne slate samples have been classified as the highest S1 grade in the ASTM test predicting a service life of 75 years plus.

Belgian Standard

Awarded Homologation Certification to the stringent Belgian Standard for Natural Slates, ATG H768, following an inspection of the geology and production processes at the quarry and testing of independently selected slate samples.

ISO 9001:2015 Quality Management
FS693610

BURTON ROOFING Merchants Ltd
burtonroofing.co.uk

Speak to your **Glendyne representative** today:

Phil Wilden
Tel: 07923 232175 | **Email:** pwilden@burtonroofing.co.uk