NATURALLY REDLAND

“At Redland it is our aim to deliver high-quality roofs that are easy to specify, buy, install and own.”

Redland is a brand of the worldwide Braas Monier Building Group (BMBG). With operations in 50 countries and over 100 production sites, BMBG is the leading worldwide supplier of pitched roofing materials. Our goal is to deliver high-quality roofing solutions that perfectly meet our customers’ expectations.

Redland draws on the expertise and experience gathered from nearly 100 years as an industry leader. Our range of tiles, slates, renewable energy systems, fittings and accessories, combined with market-leading technical support services, enable us to deliver total pitched roofing solutions you can rely on.

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For further information on Redland:
Visit www.redland.co.uk or telephone Customer Service on 03705 601000

Cambrian Slate, Slate Grey, Ystradgynlais Community Hospital, Powys, Wales

WWW.REDLAND.CO.UK CUSTOMER SERVICE 03705 601000
INDUSTRY SUPPORT AND TRAINING

REDLAND TECHNICAL SOLUTIONS SERVICE
SpecMaster is a free roof specification service and guarantee that provides NBS-based specification clauses. Easily integrated into your own working document, a SpecMaster specification will save you time, and comes with the added reassurance of a comprehensive 15-year design liability and roof weathertightness guarantee.

REDLAND TECHNICAL SOLUTIONS
Staffed by industry experts with both the technical and real world knowledge of designing with Redland systems, our Technical Solutions team’s service will help you bring your project to fruition with industry-leading knowledge every step of the way.

CPD AND TRAINING
Our purpose-built Redland National Training Centre at South Cerney in Gloucestershire is where Redland personnel, customers, suppliers and specifiers regularly undertake in-depth classroom and practical training. Since it was established in 1983, more than 45,000 people have been trained at the Centre.

As a member of the RIBA CPD Providers Network, we are also able to deliver training sessions, using accredited materials, at customers’ own premises.

As well as an unrivalled range of roof tiles and systems, Redland has developed a comprehensive range of free technical services to save you time and provide complete peace of mind in your roofing project.

- **SpecMaster**: Complete guaranteed roof specification service with NBS-based clauses
- **QuantMaster**: Redland’s bespoke roof materials quantity estimating service
- **DesignMaster**: Comprehensive CAD library of over 4,000 quality roofing drawings
- **ViewMaster**: The online visualisation software that enables you to ‘try before you buy’
- **FixMaster**: Fixing specification service tailored to each customer’s needs
- **EcoMaster**: Guaranteed specification service for projects using solar photovoltaic systems

Visit [www.redland.co.uk/services](http://www.redland.co.uk/services) for further information on these services.

Chances are you know someone who has been on one of our courses.
The slate range delivers the simple beauty of a slated roof with precision manufacturing that ensures a durable and weathertight construction.

Abundant and durable, slate was for centuries the signature roofing material of Wales, the South West, the North West and Scotland. Only with the arrival of the railways in the nineteenth century did it spread across the rest of the country to satisfy the insatiable demand from Britain’s newly industrialised cities.

Today, Redland’s extensive slate and slate appearance tile range allows specifiers to preserve those regional traditions while creating roofs that are even stronger and more durable than the originals they are replacing.

THE ENDURING QUALITY OF REDLAND SLATES

The slate range is priced according to colour and surface finish. Slates are designated as Traditional, Heritage, Premier and Premier Plus.

Min. Pitch 15° 17.5° 17.5° 17.5°
Weight 17kg/m² 46kg/m² 45kg/m² 49kg/m²
Cover# 13.3 slates/m² 9.7 slates/m² 9.7 slates/m² 8.2 slates/m²

# Depends on headlap used. Refer to product pages for full technical information.
Cambrian Slate has a proven track record even on pitches as low as 15° and, while light in weight, its unique three-point fixing makes it suitable for even the most exposed sites.

**KEY ADVANTAGES**
- Interlocking reconstituted slate
- Riven surface and dressed edges
- Weather like natural slate
- Four classic colours and finishes
- 60-year guarantee

**TECHNICAL DATA**

- **Size (overall)**: 300 x 336mm
- **Minimum Pitch and Headlap**: 15° at 75mm headlap / 25° at 50mm headlap
- **Maximum Pitch**: 90°
- **Minimum Headlap**: 50mm
- **Maximum Headlap**: 90mm
- **Minimum Gauge/Batten Spacing**: 210mm
- **Maximum Gauge/Batten Spacing**: below 25° / 225mm / 25° and over 250mm
- **Hanging Length** (approx): 294mm
- **Cover** (all figures are net and do not allow for wastage):
  - Linear cover of 1 slate: 300mm
  - Covering capacity: 14.8 slates/m² at 225mm gauge / 13.3 slates/m² at 250mm gauge
- **Weight**:
  - 18kg/m² at 225mm gauge / 17kg/m² at 250mm gauge per pallet, including pallet (approx): 0.76 tonnes per 1000, 1.24 tonnes per pallet (approx)
- **Battens Required** (at max gauge): 4.0m/m²
- **Batten Size**:
  - Rafter centres up to 450mm: 38 x 25mm
  - Rafter centres up to 600mm: 50 x 25mm
- **Fixing Clips**:
  - Eaves, Verge & Slate Clips
- **Nail Size for Slates** (Stainless Steel Annular ring Shanked): 30 x 2.65mm (5/8)
- **Pallet Quantities**:
  - Slates per pallet: 600 / Slates per pack: 10 / Packs per pallet: 60

**FITTINGS & ACCESSORIES**

- **Verge**
  - Anti-Dry Verge
- **Hip**
  - Universal Angle Hip
  - Continuous Hip System
- **Valley**
  - Cambrian GRP Valley
  - Dry Valley
- **Ridge**
  - Universal Angle Ridge
  - Universal Angle Minisingle
- **Ventilation Systems**
  - RedVent Conservation
  - RedVent 25 Ogee/Fascia Vent
  - Rapid Eaves Vent
  - Top Edge Abutment Ventilation
  - DryVent Ridge
  - Continuous Ridge System
  - UniVent Ridge
  - DryVent Monosingle
  - UniVent Terracotta

**ORNAMENTAL RIDGES AND FINIALS**

Please refer to page 60.

Redland Cambrian Slate captures all the beauty and character of natural slate. Made from over 60% recycled Welsh slate, it leads the Redland range in both looks and performance.
CAMBRIAN SLATE | 28 Heather

A classic slate grey, set off by a deep purple hue, characteristic of certain regional Welsh slates.

CAMBRIAN SLATE | 29 Langdale Green

A green-toned slate, much the same as the slates traditionally quarried in the Lake District.
CAMBRIAN SLATE | 30 Slate Grey

The look of traditional Welsh slate.

CAMBRIAN SLATE | 31 Slate Grey (Pre-Weathered)

Our Slate Grey, pre-weathered, to give the natural slate look from day one on the roof.
With their clean lines and natural, long-lasting colour, Landmark 10 Slates capture all the appeal of one of Britain’s dominant roofing materials.

Landmark 10 Slate, Brecon Grey, Barratt Homes, York, North Yorkshire

Landmark 10 SLATE

Each tile incorporates subtle colour differences to replicate the variations typical of natural slate while offering low minimum pitch for maximum flexibility and performance.

KEY ADVANTAGES
• Redland ColourFusion™ process ensures tiles keep their colour over long periods
• Thin leading edge, low profile tile with hidden interlock

TECHNICAL DATA

Size (overall) 418 x 330mm

Minimum Pitch and Headlap
17.5° at 100mm headlap / 22.5° at 75mm headlap
(The minimum pitch is based on a maximum rafter length of 10 metres. For rafter lengths greater than this, please contact the Technical Solutions Hotline on 03708 702595)

Maximum Pitch (subject to fixing specification) 90°

Minimum Headlap 75mm

Minimum Gauge/Batten Spacing 293mm

Maximum Gauge/Batten Spacing below 22.5° 318mm / 22.5° and over 343mm

Hanging Length (approx.) 395mm

Cover (all figures are net and do not allow for wastage)
Linear cover of 1 slate 300mm
Covering capacity 15.5 slates/m² at 318mm gauge / 9.7 slates/m² at 343mm gauge

Weight 49kg/m² at 318mm gauge / 46kg/m² at 343mm gauge

Battens Required (at max. gauge) 2.52m²

Batten Size
Rafter centres up to 450mm 38 x 25mm
Rafter centres up to 600mm 50 x 25mm

Fixing Clips Eaves, Verge & Slate Clips

Nail Size for Slates
(A/A) Stainless Steel Annular ring shanked
(S/S) Aluminium Alloy

Pallet Quantities Slates per pallet 210 / Slates per pack 35 / Packs per pallet 6

COLOURS

Brecon Grey (ColourFusion™)

FITTINGS & ACCESSORIES

Verge Dry Verge

Hip Universal Angle Hip
Dry Hip System
Continuous Hip System

Valley 125 GRP Valley
Dry Valley

Ridge Universal Angle Ridge
Universal Monoridge

Ventilation Systems
RedVent Eaves Vent
RedVent 25 Over-Fascia Vent
Rapid Eaves Vent
Top Edge Abutment Ventilation
DryVent Ridge
Continuous Ridge System
Universal Ridge Monoridge
DryVent Monoridge
RedLine Vent Tile
8/4 Pitched Vent Tile

ORNAMENTAL RIDGES AND FINIALS

Please refer to page 60.
Landmark roof tiles keep their colour and weather naturally.

Landmark 10 Slate, Brecon Grey, Barratt Homes, York, North Yorkshire

Rich dark grey tones, made to simulate traditional dark natural slates, using the special Redland Landmark finish to ensure a colour that lasts.

LANDMARK 10 SLATE | Brecon Grey (ColourFusion™)
Riven surfaces, chamfered side edges and a thin front edge combine in our Saxon 10 concrete slate to mimic features found on natural quarried products.

**SAXON 10 SLATE**

With minimum pitches as low as 17.5°, design flexibility is maximised, while the strong colours produce roofs of quality and distinction.

**TECHNICAL DATA**

- **Size** (overall): 418 x 330mm
- **Minimum Pitch and Headlap**: 17.5° at 100mm headlap, 22.5° at 75mm headlap. The minimum pitch is based on a maximum rafter length of 10 metres. For rafters longer than this, please contact the Technical Solutions Hotline on 03708 702595.
- **Maximum Pitch**: (subject to fixing specification) 90°
- **Minimum Headlap**: 75mm
- **Maximum Headlap**: 125mm
- **Minimum Gauge/Batten Spacing**: 293mm
- **Maximum Gauge/Batten Spacing**: 318mm / 343mm at 22.5° and over
- **Hanging Length** (approx.): 395mm
- **Cover** (all figures are net and do not allow for wastage):
  - Linear cover of 1 slate: 300mm
  - Covering capacity: 10.5 slates/m² at 318mm gauge, 9.7 slates/m² at 343mm gauge
- **Weight**:
  - 48kg/m² at 318mm gauge
  - 45kg/m² at 343mm gauge per pallet including pallet (approx.)
  - 0.98 tonnes
  - 4.60 tonnes per 1000
- **Battens Required** (at max. gauge): 2.92m/m²
- **Batten Size**:
  - Rafter centres up to 450mm: 38 x 25mm
  - Rafter centres up to 600mm: 50 x 25mm
- **Fixing Clips**:
  - Eaves, Verge & Slate Clips
- **Nail Size for Slates**:
  - (S/S) Stainless Steel Annular ring shanked
  - (A/A) Aluminium Alloy
- **Pallet Quantities**:
  - Slates per pallet: 210
  - Slates per pack: 35
  - Packs per pallet: 6

**COLOURS**

- Black (Coated)
- Blue (Coated)

**KEY ADVANTAGES**

- Riven surface, chamfered side edges
- Thin front edge replicates features of natural products

**FITTINGS & ACCESSORIES**

- **Verge**
  - Dry Verge
- **Hip**
  - Universal Angle Hip
  - Dry Hip System
  - Continuous Hip System
- **Valley**
  - 125 GRP Valley
  - Dry Valley
- **Ridge**
  - Universal Angle Ridge
  - Universal Angle Monoridge
- **Ventilation Systems**
  - RedVent Eaves Vent
  - Rapid Eaves Vent
  - Top Edge Abutment Ventilation
  - Continuous Ridge System
- **ORNAMENTAL RIDGES AND FINIALS**

Please refer to page 60.
SAXON 10 SLATE | 63 Black (Coated)
Our very darkest tile set off by a subtle sheen finish.

SAXON 10 SLATE | 64 Blue (Coated)
An intense dark blue-grey in a burnished finish.
RICHMOND 10 SLATE

Its unique design offers a thin leading edge and hidden interlock with no compromise in strength, durability and weathertightness.

KEY ADVANTAGES
• Clean, bold roof aesthetics
• Value roofing solution with no trade-off in quality
• For pitches as low as 17.5°

TECHNICAL DATA

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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<td>Size</td>
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<tr>
<td>Minimum Pitch and Headlap</td>
<td>17.5° at 100mm headlap / 22.5° at 75mm headlap</td>
</tr>
<tr>
<td>Maximum Pitch (subject to fixing specification)</td>
<td>90°</td>
</tr>
<tr>
<td>Maximum Headlap</td>
<td>125mm</td>
</tr>
<tr>
<td>Maximum Gauge/Batten Spacing</td>
<td>293mm</td>
</tr>
<tr>
<td>Maximum Gauge/Batten Spacing</td>
<td>beyond 22.5° 318mm / 22.5° and over 343mm</td>
</tr>
<tr>
<td>Hanging Length (approx)</td>
<td>395mm</td>
</tr>
<tr>
<td>Cover</td>
<td>300mm</td>
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<tr>
<td>Covering capacity</td>
<td>10.5 slates/m² at 318mm gauge / 9.7 slates/m² at 343mm gauge</td>
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<td>Weight</td>
<td>48kg/m² at 318mm gauge / 45kg/m² at 343mm gauge per pallet including pallet (approx.) 1.02 tonnes per 1000 4.60 tonnes</td>
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<td>Battens Required (at max. gauge)</td>
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<tr>
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<tr>
<td>Fixing Clips</td>
<td>Eaves, Verge &amp; Slate Clips</td>
</tr>
<tr>
<td>Nail Size for Slates#</td>
<td>(S/S) Stainless Steel Annular ring shanked (A/A) Aluminium Alloy</td>
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<tr>
<td>Pallet Quantities</td>
<td>Slates per pallet 210 / Slates per pack 35 / Packs per pallet 6</td>
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</table>

FITTINGS & ACCESSORIES

- Verge
- Dry Verge
- Hip
- Universal Angle Hip
- Dry Hip System
- Continuous Hip System

- Valley
- 125 GRP Valley
- Dry Valley

- Ridge
- Universal Angle Ridge
- Universal Angle Monoridge

- Ventilation Systems
  - RedVent Eave/Vent
  - RedVent 25 Over-Fascia Vent
  - Rapid Eave Vent
  - Top Edge Abutment Ventilation
  - DryVent Ridge
  - Continuous Ridge System
  - Universal Ridge/Hip
  - DryVent Monoridge
  - RedLine Vent Tile
  - 8k ThruVent Tile

ORNAMENTAL RIDGES AND FINIALS

Please refer to page 60.

COLOURS

- Slate Grey
- Flame Red (Coated)
- Rustic Brown (Coated)
- Black (Coated)
- Blue (Coated)

Richmond 10 Slate is the ideal choice for cost-effective roofing with an authentic slate appearance.
RICHMOND 10 SLATE | 30 Slate Grey

A popular grey colour, inspired by the appearance of natural slate.

RICHMOND 10 SLATE | 38 Flame Red (Coated)

A full-bodied red tile set off by a subtle sheen, with a dark colour effect to imitate the attractive aging of a rain-streaked roof.
RICHMOND 10 SLATE | 40  Rustic Brown (Coated)

A homely brown tile, with a particular colour effect to feign a pleasantly aged roof, and set off by a subtle sheen.

RICHMOND 10 SLATE | 63  Black (Coated)

Our very darkest tile set off by a subtle sheen finish.
RICHMOND 10 SLATE | 64  Blue (Coated)

An intense dark blue-grey in a burnished finish.

A cost-effective roofing solution with no trade-off in quality.
MOCKBOND RICHMOND 10 SLATE

Lower minimum pitches and small slate appearance make this one of the most versatile roofing tiles you can specify.

KEY ADVANTAGES
- Small slate appearance, but with speed and ease of larger format installation
- Low minimum pitch adds versatility

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tr>
<td>Size (overall)</td>
<td>418 x 330mm</td>
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<tr>
<td>Minimum Pitch and Headlap</td>
<td>17.5° at 100mm headlap / 27.5° at 75mm headlap</td>
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<tr>
<td>Maximum Pitch (subject to fixing specification)</td>
<td>90°</td>
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<tr>
<td>Minimum Headlap</td>
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<td>Maximum Headlap</td>
<td>125mm</td>
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<tr>
<td>Minimum Gauge/Batten Spacing</td>
<td>293mm</td>
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<td>Maximum Gauge/Batten Spacing</td>
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<td>Hanging Length (approx.)</td>
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<td>Cover (all figures are net and do not allow for wastage)</td>
<td>300mm</td>
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<tr>
<td>Linear cover of 1 slate</td>
<td>10.5 slates/m² at 318mm gauge / 9.7 slates/m² at 343mm gauge</td>
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<tr>
<td>Weight per pallet (approx.)</td>
<td>486kg/m² at 318mm gauge / 458kg/m² at 343mm gauge</td>
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<tr>
<td>Weight per 1000</td>
<td>1.02 tonnes</td>
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<td>Batten Size</td>
<td>38 x 25mm</td>
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<tr>
<td>Fixing Clips</td>
<td>Eaves, Verge &amp; Slate Clips</td>
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<tr>
<td>Nail Size for Slates#</td>
<td>45 x 3mm (A/A) / 45 x 3.35mm (S/S)</td>
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<tr>
<td>Pallet Quantities</td>
<td>Slates per pallet 210 / Slates per pack 35 / Packs per pallet 6</td>
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*All weights nominal  *(S/S) Stainless Steel Annular ring shanked  *(A/A) Aluminium Alloy

COLOURS

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<thead>
<tr>
<th>Colour Code</th>
<th>Colour</th>
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<tbody>
<tr>
<td>10</td>
<td>Slate Grey</td>
<td>(Coated)</td>
</tr>
<tr>
<td>38</td>
<td>Flame Red</td>
<td>(Coated)</td>
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<tr>
<td>63</td>
<td>Black</td>
<td>(Coated)</td>
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FITTINGS & ACCESSORIES

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<th>Fitting/Accessory</th>
<th>Description</th>
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<tr>
<td>Verge</td>
<td>Dry Verge</td>
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<tr>
<td>Hip</td>
<td>Universal Angle Hip</td>
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<tr>
<td>Valley</td>
<td>125 GRP Valley</td>
</tr>
<tr>
<td>Ridge</td>
<td>Universal Angle Ridge</td>
</tr>
<tr>
<td>Roof Ventilation</td>
<td>RedVent Eave/Vent / DryVent Eave/Vent</td>
</tr>
<tr>
<td></td>
<td>Continuous Ridge System / Universal Angle Ridge</td>
</tr>
<tr>
<td>Ornamental Ridges/Fins</td>
<td>Please refer to page 60.</td>
</tr>
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</table>

Performance and aesthetics come together, with an imitation bond line to create the impression of a smaller slate.
MOCKBOND RICHMOND 10 SLATE | 30  Slate Grey

A popular grey colour, inspired by the appearance of natural slate.

MOCKBOND RICHMOND 10 SLATE | 38  Flame Red (Coated)

A full-bodied red tile set off by a subtle sheen, with a dark colour effect to imitate the attractive aging of a rain-streaked roof.
MOCKBOND RICHMOND 10 SLATE | 40 Rustic Brown (Coated)

A homely brown tile, with a particular colour effect to feign a pleasantly aged roof, and set off by a subtle sheen.

MOCKBOND RICHMOND 10 SLATE | 63 Black (Coated)

Our very darkest tile set off by a subtle sheen finish.
With its imperial size and proven track record, Stonewold II is quick to install and is particularly suited to larger roofs.

**KEY ADVANTAGES**
- Imperial size large format tile
- Proven track record in wide range of applications
- Particularly well suited to large area roofs

**TECHNICAL DATA**

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<th>Feature</th>
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<td>Minimum Pitch</td>
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<td>Hanging Length (approx.)</td>
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<td>Cover (all figures are net and do not allow for wastage)</td>
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<td>Weight (approx.)</td>
<td>4.8kg/m² at 355mm gauge</td>
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<td>Weight per pallet, including pallet (approx.)</td>
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<td>per 1000</td>
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<td>Rafter centres up to 600mm</td>
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<td>Fixing Clips</td>
<td>Eaves, Verge, Slate &amp; Double Battening Clips</td>
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<tr>
<td>Pallet Quantities</td>
<td>Slates per pallet 132 / Slates per pack 22 / Packs per pallet 6</td>
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</table>

**FITTINGS & ACCESSORIES**
- Verge
  - Anti-Dry Verge
- Hip
  - Universal Angle Hip
  - Dry Hip System
  - Continuous Hip System
- Valley
  - 125 GRP Valley
  - Dry Valley
- Ridge
  - Universal Angle Ridge
  - Universal Angle Monoridge
- Ventilation Systems
  - RedVent Eaves Vent
  - RedVent 25 Over-Fascia Vent
  - Rapid Eaves Vent
  - Top Edge Abutment Ventilation
  - DryVent Ridge
  - Continuous Ridge System
  - Universal Papier Ridge Hip
  - DryVent Monoridge
  - B & K ThruVent Tile

**ORNAMENTAL RIDGES AND FINIALS**
Please refer to page 60.

**COLOURS**
- Slate Grey
- Terracotta
- Tudor Brown

Stonewold II is the original large format interlocking slate used on thousands of roofs across the country.
STONEWOLD II | 30 Slate Grey
A popular grey colour, inspired by the appearance of natural slate.

STONEWOLD II | 34 Terracotta
The traditional fired-clay red of terracotta tiles.
STONEWOLD II | 36 Tudor Brown

A traditional period brown.

Stonewold II is particularly well suited to large area roofs.
MINI STONEWOLD

A flat concrete slate that can be laid at pitches as low as 17.5° in both new build and reroofing projects.

One of our most flexible and economical concrete slate products, featuring interlocking edges for simple construction.

TECHNICAL DATA

Size (overall) 418 x 334mm
Minimum Pitch and Headlap 17.5° at 100mm headlap / 22.5° at 75mm headlap
Maximum Pitch (subject to fixing specification) 90°
Minimum Headlap 75mm
Maximum Gutter/Batten Spacing 293mm
Maximum Gutter/Batten Spacing below 22.5° 318mm / 22.5° and over 343mm
Hanging Length (approx.) 397mm
Cover (all figures are net and do not allow for wastage)
- Linear cover of 1 slate 294mm
- Linear cover 10.7 slates/m² at 318mm gauge / 9.9 slates/m² at 343mm gauge
- Weight 53.8kg/m² at 318mm gauge / 51.8kg/m² at 343mm gauge per pallet, including pallet (approx.) 1.16 tonnes per 1000 5.10 tonnes
- Batten Size
  - Rafter centres up to 450mm 38 x 25mm
  - Rafter centres up to 600mm 50 x 25mm
- Fixing Clips
  - Eaves, Verge, Valley & Slate Clips
- Nail Size for Slates
  - 50 x 3.35mm (A/A)
- Pallet Quantities
  - Slates per pallet 216 / Slates per pack 36 / Packs per pallet 6

*All weights nominal (A/A) Aluminium Alloy

COLOURS

- Slate Grey
- Terracotta
- Tudor Brown
- Farmhouse Red

- Breckland Brown
- Breckland Black
- Black (Coated)
- Charcoal Grey (Coated)

FITTINGS & ACCESSORIES

Verge
- Ambi-Dry Verge
- Rapid Verge

Hip
- Universal Angle Hip
- Dry Hip System
- Continuous Hip System

Valley
- 12.5 GRP Valley
- Dry Valley

Ridge
- Universal Angle Ridge
- Universal Angle Monoridge

Ventilation Systems
- RedVent EavesVent
- RedVent 25 Oven/Fascia Vent
- Rapid Eaves Vent
- Top Edge Abutment Ventilation
- DryVent Ridge
- Continuous Ridge System
- Uni-Vent Rapid Ridge Dry
- DryVent Monoridge
- Redline Vent Tile
- Rapid RoofVent
- 8.8k ThruVent Tile

ORNAMENTAL RIDGES AND FINIALS

Please refer to page 60.
MINI STONEWOLD | Slate Grey

A popular grey colour, inspired by the appearance of natural slate.

MINI STONEWOLD | Terracotta

The traditional fired-clay red of terracotta tiles.
MINI STONEWOLD | 36 Tudor Brown
A traditional period brown.

MINI STONEWOLD | 39 Farmhouse Red
A popular terracotta red with a dark colour effect to imitate the attractive aging of a rain-streaked roof.
MINI STONEWOLD | 52 Breckland Brown

A traditional brown tile with a red-tinged streaking effect to simulate a weathered roof.

MINI STONEWOLD | 53 Breckland Black

A slate-like grey tile with a red-tinged streaking effect to simulate a weathered roof.
MINI STONEWOLD | 63  Black (Coated)

Our very darkest tile set off by a subtle sheen finish.

MINI STONEWOLD | 77  Charcoal Grey (Coated)

A rich dark colour set off by a subtle sheen, particularly favoured in the North of England and Scotland.
A full-size slate which suggests the appearance of a small-format slate when laid. It is available in five through-coloured options to suit any and every roofing environment.

**TECHNICAL DATA**

- **Size (overall):** 418 x 334mm
- **Minimum Pitch and Headlap:** 17.5° at 100mm headlap / 22.5° at 75mm headlap
- **Maximum Pitch:** 90°
- **Minimum Headlap:** 75mm
- **Maximum Gauge/Batten Spacing:** 29.3mm
- **Maximum Gauge/Battion Spacing:** below 22.5° 318mm / 22.5° and over 343mm
- **Hanging Length (approx.):** 397mm
- **Cover (all figures are net and do not allow for wastage):**
  - Linear cover of 1 slate: 318mm gauge / 9.9 slates/m² at 343mm gauge
  - Weight: 539kg/m² at 318mm gauge / 514kg/m² at 343mm gauge per pallet including pallet (approx.) 1.16 tonnes per 1000 5.10 tonnes
- **Battens Required (at max. gauge):** 2.92m/m²
- **Batten Size:**
  - Rafter centres up to 450mm: 38 x 25mm
  - Rafter centres up to 600mm: 50 x 25mm
- **Fixing Clips:** Eaves, Verge, Valley & Slate Clips
- **Nail Size for Slates:** 50 x 3.35mm (A/A)
- **Pallet Quantities:** Slates per pallet 216 / Slates per pack 36 / Packs per pallet 6
  (A/A) Aluminium Alloy

**COLOURS**

- Slate Grey
- Terracotta
- Farmhouse Red
- Breckland Brown
- Charcoal Grey (Gazed)

**Fittings & Accessories**

- **Verge:** Anti-Dry Verge, Rapid Verge
- **Hip:** Universal Angle Hip, Dry Hip System, Continuous Hip System
- **Valley:** 125 GRP Valley, Dry Valley
- **Ridge:** Universal Angle Ridge, Universal Angle Monoridge

**Ventilation Systems**


**Ornamental Ridges and Finials**

Please refer to page 60.
Slate Grey

A popular grey colour, inspired by the appearance of natural slate.

Redland’s most economical slate with interlocking edges for simple construction.
MOCKBOND MINI STONEWOLD | 34 Terracotta

The traditional fired-clay red of terracotta tiles.

MOCKBOND MINI STONEWOLD | 39 Farmhouse Red

A popular terracotta red with a dark colour effect to imitate the attractive aging of a rain-streaked roof.
MOCKBOND MINI STONEWOLD

52 Breckland Brown

A traditional brown tile with a red-tinged streaking effect to simulate a weathered roof.

77 Charcoal Grey (Coated)

A rich dark colour set off by a subtle sheen, particularly favoured in the North of England and Scotland.
CLAY UNIVERSAL ANGLE RIDGE AND HIPTILES

Universal Angle Ridges and Hips in clay are the perfect complement to natural and fibre cement slate roofs.

Our Universal Angle Ridges and Hips in clay are the perfect complement to natural and fibre cement slate roofs, available in Black, where a colour match to the slate is required or Red, where a contrast to the slate is desired.

**KEY ADVANTAGES**
- Suitable for use with all Redland dry ridge and dry hip systems
- Hip tiles available both with and without nail holes
- Matching Ridge and Hip End Caps available

### RIDGE

<table>
<thead>
<tr>
<th>Product Codes</th>
<th>Overall Size (L x W x H mm)</th>
<th>Maximum Pitch</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B46679 Black</td>
<td>450 x 259 x 106</td>
<td>45º</td>
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<tr>
<td>B46680 Red</td>
<td>450 x 259 x 106</td>
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<td>5.18</td>
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### HIP

<table>
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<tr>
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<td>450 x 218 x 77</td>
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<tr>
<td>B46780 Red</td>
<td>450 x 218 x 77</td>
<td>90º</td>
<td>4.53</td>
</tr>
<tr>
<td>B46679 Black (with nail hole)</td>
<td>450 x 218 x 77</td>
<td>90º</td>
<td>4.53</td>
</tr>
<tr>
<td>B46880 Red (with nail hole)</td>
<td>450 x 218 x 77</td>
<td>90º</td>
<td>4.53</td>
</tr>
</tbody>
</table>

The traditional clay aesthetic for contemporary roofs.
Redland offers three concrete ornamental ridges and four finials for both Universal Angle and Half Round Ridges, designed to replicate the most popular ornamental features found within the built environment.

**ORNAMENTAL RIDGES AND FINIALS**

Our concrete Ornamental Ridges and Finials are compatible with mortar bedding, dry fix and ventilated systems, enabling a complete roof to be achieved easily without compromising good looks.

**KEY ADVANTAGES**

- Ornamental Ridges and Finials are fully compatible with all our ridge fixing systems
- Range of popular styles

---

### ORNAMENTAL RIDGES

<table>
<thead>
<tr>
<th>Product Codes</th>
<th>Overall Size (L x W x H mm)</th>
<th>Height of Crest (mm)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>Cockscomb Ridge</td>
<td>Universal Angle Ridge</td>
<td>7468</td>
<td>450 x 259 x 206</td>
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<tr>
<td>Universal Angle Ridge Block-End</td>
<td>7538</td>
<td>450 x 259 x 300</td>
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<tr>
<td>Three Hole Crested Ridge</td>
<td>Universal Angle Ridge</td>
<td>7462</td>
<td>450 x 259 x 254</td>
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<td>Universal Angle Ridge Block-End</td>
<td>7058</td>
<td>450 x 259 x 380</td>
<td>300</td>
</tr>
<tr>
<td>Fleur-de-Lys Ridge</td>
<td>Universal Angle Ridge</td>
<td>7467</td>
<td>450 x 259 x 254</td>
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<tr>
<td>Universal Angle Ridge Block-End</td>
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<td>450 x 259 x 380</td>
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### FINIALS

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<tr>
<th>Product Codes</th>
<th>Overall Size (L x W x H mm)</th>
<th>Height of Finial (mm)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>Scroll</td>
<td>Universal Angle Ridge</td>
<td>7529</td>
<td>300 x 259 x 306</td>
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<td>Universal Angle Ridge Block-End</td>
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<td>300 x 259 x 430</td>
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<td>Short Ball Top</td>
<td>Universal Angle Ridge</td>
<td>7485</td>
<td>300 x 259 x 374</td>
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<td>Universal Angle Ridge Block-End</td>
<td>7487</td>
<td>300 x 259 x 500</td>
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<td>Tall Ball Top</td>
<td>Universal Angle Ridge</td>
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<td>300 x 259 x 474</td>
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<td>Universal Angle Ridge Block-End</td>
<td>7488</td>
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<td>Fleur-de-Lys</td>
<td>Universal Angle Ridge</td>
<td>7491</td>
<td>300 x 259 x 524</td>
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<td>Universal Angle Ridge Block-End</td>
<td>7492</td>
<td>300 x 259 x 650</td>
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Guidance Notes: Fixings – all Ornamental Ridges and Finials should be fixed using 100mm stainless steel woodscrews
### FITTINGS COLOUR RANGE

<table>
<thead>
<tr>
<th>Colour Code</th>
<th>Colour Name</th>
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<tbody>
<tr>
<td>34</td>
<td>Terracotta</td>
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<tr>
<td>35</td>
<td>Rustic Brown</td>
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<tr>
<td>36</td>
<td>Tudor Brown</td>
</tr>
<tr>
<td>47</td>
<td>Brecon Grey</td>
</tr>
<tr>
<td>63</td>
<td>Black</td>
</tr>
<tr>
<td>64</td>
<td>Blue</td>
</tr>
<tr>
<td>79</td>
<td>Black (clay)</td>
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<tr>
<td>80</td>
<td>Red (clay)</td>
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### PRODUCT CODES

<table>
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<tr>
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<tr>
<td>4701</td>
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<tr>
<td>4991</td>
<td>150 x 150</td>
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<tr>
<td>4671</td>
<td>200 x 200</td>
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<tr>
<td>4671/4681</td>
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<td>4911</td>
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<td>4261/4271</td>
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### SLATES

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<td>1201</td>
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<td>1203</td>
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<td>1205</td>
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### UNDERLAYS

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<tr>
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<td>3920</td>
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<td>3921</td>
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### VALLEY SYSTEMS

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<tr>
<td>3627</td>
<td>500 x 1.5m</td>
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<td>3629</td>
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<tr>
<td>3630</td>
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**CUSTOMER SERVICE:** 03705 607000

**WWW.REDLAND.CO.UK**
**PRODUCT CODES**

Product codes are given with dimensions below in small text. All dimensions are in mm (unless stated). For fittings colour range availability refer to table on page 62.

For listings colour availability refer to table on page 60. Dimensions are in order: length, width, height (where applicable). All dimensions are in mm (unless stated) in the order: length, width and height (where applicable). Dimensions are in small text.

### ABUTMENT SYSTEMS

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Material Description</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>9548</td>
<td>Flexible Pipe (100 to 100mm)</td>
<td>450 x 154 x 273</td>
</tr>
<tr>
<td>9543</td>
<td>Ridge Vent Terminal Adaptor</td>
<td>450 x 259 x 106</td>
</tr>
<tr>
<td>9542</td>
<td>Ridge Vent Terminal</td>
<td>335 x 255 x 153</td>
</tr>
<tr>
<td>9540</td>
<td>Continuous Ridge System</td>
<td>450 x 259 x 106</td>
</tr>
<tr>
<td>9541</td>
<td>Uni-Vent Rapid Ridge/Hip</td>
<td>9059</td>
</tr>
<tr>
<td>9549</td>
<td>DryVent Ridge System</td>
<td>7148</td>
</tr>
<tr>
<td>9547</td>
<td>Bonding Gutter – Low Profile (3m)</td>
<td>9084</td>
</tr>
<tr>
<td>9546</td>
<td>Side Abutment GRP Secret Gutter</td>
<td>9084</td>
</tr>
<tr>
<td>9545</td>
<td>Bonding Gutter – High Profile (3m)</td>
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### ROD SYSTEMS

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<tr>
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### VENTILATION TILES

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<tr>
<td>9545</td>
<td>Bonding Gutter – High Profile (3m)</td>
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### OTHER ACCESSORIES

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<tr>
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</tr>
<tr>
<td>9545</td>
<td>Bonding Gutter – High Profile (3m)</td>
<td>9084</td>
</tr>
</tbody>
</table>

* Stainless Steel ring shanked.
All concrete slate range tiles conform to BS EN 490:2011. Concrete roofing tiles and slates for roof covering and wall cladding — Product specifications. As there is no British Standard for Cambrian Slates, it has been designed to meet the relevant performance requirements of BS 5534:2014: Slating and tiling for pitched roof and vertical cladding — Code of Practice and has been awarded British Board of Agrément certificate No. 87/19/07.

Sustainability
As members of the Roof Tile Association, data supplied for our concrete tiles enabled the BRE Green Guide to Specification to award the highest A+ rating for generic concrete tiles. Redland Cambrian Slates are the most eco-friendly reinstatement tiles available the Green Guide to Specification awards generic reinstatement tiles an A rating when part of standard roof constructions based upon data provided by Monier Redland Ltd the same as for UK produced natural tiles.

Guarantees
All of our products are designed and tested to work together. So when specified by Redland as part of a HouseBuilder or SpecMaster project not only is every product guaranteed weathertight, but the whole system between them is similarly guaranteed under the terms and conditions of the relevant guarantees. Redland offers either 10 or 15 year guarantees depending upon the project specification including the products chosen as well as the nature of the project itself. If any Redland product fails during the guarantee period, we will not only replace it, we will also pay for the cost of labour and associated materials. Please consult Redland Technical Solutions for more information.

Composition and Manufacture
Concrete slates are manufactured by a high pressure extrusion and compaction process. Cambrian Slates are manufactured from crushed Welsh natural slate (minimum content over 60%), stone, resin and glass-fibre reinforcement.

Performance
All slates and tiles have been rigorously tested in our wind tunnel where combinations of high wind and driving rain are used to determine the products' performance with respect to wind and weather tightness. Standard Slates and tiles will meet the requirements of BS 5534:2014: Code of practice for dating and tiling, providing our being recommended are complied with.

The information contained in this Guide is based on a maximum rafter length of 10 metres at the minimum pitch required for the product. For rafter lengths greater than this telephone Technical Solutions on 03708 702595 for advice.

The minimum pitch and maximum rafter length may be affected by roof features such as valleys, dormer roofs and chimneys, for advice on the inclusion of such features in a roof slope contact Technical Solutions.

Movement
Designed vertical and horizontal laying tolerances will accommodate normal thermal and other movements.

Fire Resistance

Under the Building Regulations there are no restrictions on the use of Cambrian Slates as a roofing material but for mantles above 65º or vertical slating it is essential to comply with Approved Document B. All other slates and tiles are non-combustible and are classified SAA when tested for the protection and spread of flame to BS 476-3:2004: Fire tests on building materials and structures. There are no restrictions on their use under the Building Regulations.

Strength and Durability
Slates and tiles do not delaminate and despite having high strength properties, are easy to cut. All Redland concrete slate range tiles exceed the minimum strength requirements as laid down in BS EN 490.

Environmental Effects
Ease of weathering, placed on the roof. Sunlight: unaffected by prolonged exposure to ultraviolet light and sunlight.

Biological Effects
Birds and rodents stones are not attacked or degraded by birds, rodents or insects. Mosses and lichen: slate/diagonal slate is not affected by the growth of lichens and mosses. However, the removal of growths may be necessary when the flow of rainwater off the roof is impeded and valleys, gutters or downpipes become blocked.

Health & Safety
Material Safety Data Sheets covering properties, storage and safe use of our products are available for download from our website www.redland.co.uk. When cutting slates using a single grinder which generates large concentrations of dust, the measures defined in the Health and Safety Executive, Guidance Note EH 40 must be followed.

Appearance
Under normal production conditions colour variation may occur in slates, tiles and fittings. Natural weathering may also cause changes in colour and appearance. In both cases this is acceptable under BS EN 490:2011. Stonewalls and abseions caused by paving loading and transportation are also permissible as long as the overall weatherability quality is not affected. Cambrian Slates can be pre-weathered during manufacture if required. After installation slight weathering may occur due to natural weathering. Landmark 10 Slates are designed to change over time just as natural stone melines and develops character. With the exception of Landmarks, efflorescence, which is a surface phenomenon associated with concrete products, may result in a temporary lightening of the surface colour. This will be removed by weathering. For the best visual effect on the roof surface and tiles this should be selected randomly from a minimum of three different pallets. When laying slates and tiles in prominent areas it is advisable to ensure that there are sufficient slots of mixed tiles available to complete the installation. Slates of the same colour or profile, which are manufactured at different plants, must not be mixed on the same roof area.

Fixing Specification
There is only one recommended fixing specification for Cambrian Slates — They must be twice nailed and clipped using Redland proprietary nails and clips. In addition verge clips are required for every verge, raking valley cut and rooflight abutment. For information on how to obtain recommended fixing specifications for all other Redland slates and tiles, go to www.redland.co.uk/fmatters.

All mortar bedded hips and ridges must be mechanically fixed.

Tiling Sorting
Roofing practice in Scotland includes the use of timber tiling and tarterboards. Insulation board is also widely used as purlin weathering over the UK. The presence of tiling board in either of these forms will affect many of the standard details. It must be noted that the combined thickness of the tiling and insulation board may alter details slightly for insulation board. Advice on the size and fixing of the tarterboards should be obtained from the specific insulation manufacturer.

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Perfomance and Appearance of such features in a roof slope contact Technical Solutions.

The minimum pitch and maximum rafter length may be affected by roof features such as valleys, dormer roofs and chimneys, for advice on the inclusion of such features in a roof slope contact Technical Solutions.

Authority
All concrete slate range tiles conform to BS EN 490:2011. Concrete roofing tiles and slates for roof covering and wall cladding — Product specifications. As there is no British Standard for Cambrian Slates, it has been designed to meet the relevant performance requirements of BS 5534:2014: Slating and tiling for pitched roof and vertical cladding — Code of Practice and has been awarded British Board of Agrément certificate No. 87/19/07.

Sustainability
As members of the Roof Tile Association, data supplied for our concrete tiles enabled the BRE Green Guide to Specification to award the highest A+ rating for generic concrete tiles. Redland Cambrian Slates are the most eco-friendly reinstatement tiles available the Green Guide to Specification awards generic reinstatement tiles an A rating when part of standard roof constructions based upon data provided by Monier Redland Ltd the same as for UK produced natural tiles.

Guarantees
All of our products are designed and tested to work together. So when specified by Redland as part of a HouseBuilder or SpecMaster project not only is every product guaranteed weathertight, but the whole system between them is similarly guaranteed under the terms and conditions of the relevant guarantees. Redland offers either 10 or 15 year guarantees depending upon the project specification including the products chosen as well as the nature of the project itself. If any Redland product fails during the guarantee period, we will not only replace it, we will also pay for the cost of labour and associated materials. Please consult Redland Technical Solutions for more information.

Composition and Manufacture
Concrete slates are manufactured by a high pressure extrusion and compaction process. Cambrian Slates are manufactured from crushed Welsh natural slate (minimum content over 60%), stone, resin and glass-fibre reinforcement.

Performance
All slates and tiles have been rigorously tested in our wind tunnel where combinations of high wind and driving rain are used to determine the products' performance with respect to wind and weather tightness. Standard Slates and tiles will meet the requirements of BS 5534:2014: Code of practice for dating and tiling, providing our being recommended are complied with.

The information contained in this Guide is based on a maximum rafter length of 10 metres at the minimum pitch required for the product. For rafter lengths greater than this telephone Technical Solutions on 03708 702595 for advice.

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