The aesthetic appeal of natural slate with the benefits of an interlocking tile

- 20 x12 slate appearance when laid
- Fibre-free composition
- Fixed as simply as conventional interlocking tiles
- Hidden fixings, including tile clip
- Full range of Dry Fix systems available
- Kitemarked to BS EN 490:2002
- Patented product
- 60 year Product Integrity Guarantee

### Available in 3 colours

<table>
<thead>
<tr>
<th>Colour</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welsh Blue</td>
<td><img src="image" alt="Welsh Blue" /></td>
</tr>
<tr>
<td>Slate Grey</td>
<td><img src="image" alt="Slate Grey" /></td>
</tr>
<tr>
<td>Black</td>
<td><img src="image" alt="Black" /></td>
</tr>
</tbody>
</table>

Guarantee

The colour of Minislate will change with natural weathering, but the integrity of the tile carries a 60-year Product Integrity Guarantee from date of supply, subject to the company’s normal terms. Forticrete Roofing Products’ policy is one of continuous improvement and the Company reserves the right to change specifications and designs at any time without notice. Where an exact colour match is critical, you are advised to view actual tile samples.
Minislate® tile dimensions and specifications

<table>
<thead>
<tr>
<th>Tile Thickness</th>
<th>Overall Length</th>
<th>Hanging Length (l1)</th>
<th>Overall Width (w)</th>
<th>Cover Width (Cw)</th>
<th>Mass (approx)</th>
<th>Free Vent Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minislate</td>
<td>270mm</td>
<td>243mm</td>
<td>337mm</td>
<td>316mm</td>
<td>2.8kg</td>
<td>–</td>
</tr>
<tr>
<td>Universal slate and half</td>
<td>270mm</td>
<td>243mm</td>
<td>495mm</td>
<td>470mm</td>
<td>4.3kg</td>
<td>–</td>
</tr>
<tr>
<td>Lo-vent slate*</td>
<td>270mm</td>
<td>243mm</td>
<td>337mm</td>
<td>316mm</td>
<td>0.6kg</td>
<td>–</td>
</tr>
</tbody>
</table>

Note: Bonded double slates are available on request. *Registered design No. 20966577

Minislate® standard fixing specification

The exposure, location, and complexity of the roof will determine the tile fixing specification. Site specific fixing specifications are available on request from the Technical Department.

- All slates are nailed
- Nail size 45mm x 3.35mm - Smooth or Ring Shank aluminum nail depending on the site exposure
- Batten size: 38 x 25mm for rafter spans up to 450mm, 50 x 25mm for rafter spans up to 600mm
- It is a minimum requirement that the second course up from the eaves should also be secured with a Minislate® slate clip as shown in Fig 1. Slate clipping may be required depending on the site exposure

- All verge tiles should be fixed with a Minislate® Verge Clip unless using Minislate® individual Dry Fixed Verge Units
- Small cut sections of unsupported slate should be replaced with cut slate and halves
- Forticrete recommends the use of positive ventilation in roof spaces in accordance with BS 5534:2002
- All perimeters of the roof should be clipped

Forticrete recommends the use of dry vented ridge in conjunction with eaves ventilation to control the level of condensation above and below the underlay.

Pitch | Headlap | Batten spacing | Batten required | Tiles required | Mass (approx) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>22.5° - 29.5°</td>
<td>80mm min</td>
<td>190mm max</td>
<td>5.26 lin m²/m²</td>
<td>16.6/m²</td>
<td>47kg/m²</td>
</tr>
<tr>
<td></td>
<td>95mm max</td>
<td>175mm min</td>
<td>5.70 lin m²/m²</td>
<td>18.1/m²</td>
<td>51kg/m²</td>
</tr>
<tr>
<td>50° - 70°</td>
<td>75mm min</td>
<td>195mm max</td>
<td>5.13 lin m²/m²</td>
<td>16.3/m²</td>
<td>45kg/m²</td>
</tr>
<tr>
<td></td>
<td>95mm max</td>
<td>175mm min</td>
<td>5.70 lin m²/m²</td>
<td>18.1/m²</td>
<td>51kg/m²</td>
</tr>
</tbody>
</table>

Note: All leadwork should be installed in accordance with BS EN 12588:2006 and information supplied by the Lead Sheet Association.

Working procedures, safety & general precautions

Tiles should be fixed in accordance with BS 5534:2003. Forticrete recommend that fixers of all slates and tiles regard the products as fragile as stated in BS8000:Pt6:1990 Section 5. During installation of the products, the correct setting out and working procedures should be employed to avoid walking directly on to products which have been fixed or are on any completed area of a roof. Should it be necessary to gain access via the roof where battens of adequate strength cannot be used as footholds, this should not be attempted without the use of adequate protection to the tiles or slates including the required number of crawling boards, ladders and cat ladders.

Please note that where there is a change of pitch, packing may be required depending on the site exposure. All perimeters of the roof spaces in accordance with BS 5530:2002 should be clipped. Please note that where there is a change of pitch, packing may be required between all slates and tiles regard the products as fragile as stated in BS8000:Pt6:1990 Section 5. During installation of the products, the correct setting out and working procedures should be employed to avoid walking directly on to products which have been fixed or are on any completed area of a roof. Should it be necessary to gain access via the roof where battens of adequate strength cannot be used as footholds, this should not be attempted without the use of adequate protection to the tiles or slates including the required number of crawling boards, ladders and cat ladders. Other information can be obtained from the Health and Safety in Roof Work publication HMS33 and in the ‘Working on Roofs’ publication INDG284. Reference should also be made to the Forticrete Technical Literature and Fixing Instructions.

Minislate Roofing Systems

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E-mail: roofing@forticrete.com

Information on the complete range of Forticrete products can be found on the Internet at www.forticrete.co.uk

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Approved stockist

The Minislate® Clip is not mechanically fixed to the batten, but clips onto the slate interlock (at point A). The clip is then slid down (to point B) and the curled underlock (C) locates under the back of the tile below (D).

Mortar Free Dry Fixed Products – other accessories:
- Dry Fixed Ridge, Low Vent Tiles (Flush Fitting), Dry Fixed Verge, Eaves Vent packs, Dry Fixed / Round Hip, Tile Clips, Dry Fixed Bonnet Hips, Verge Clips, Dry Fixed Mitred Valley, Tile Replacement Clip

Order your **MINISLATE®** from:

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