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November 2012

Forticrete[®] roofing

Redefining traditional products™

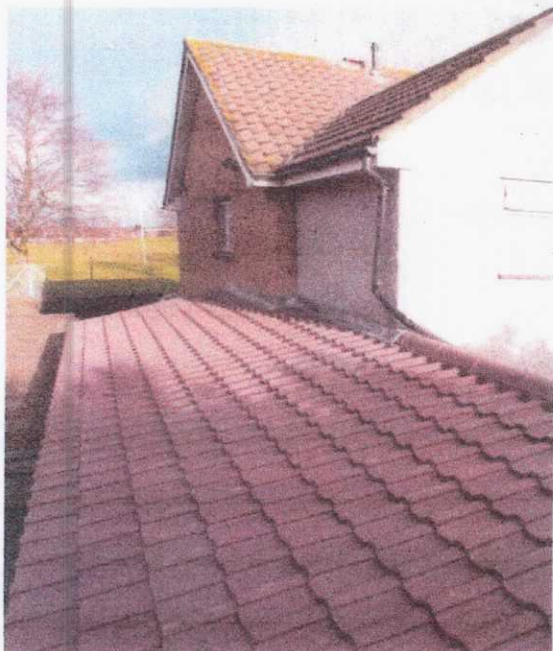


Centurion[®] roofing system

The versatile concrete tile for low pitched roofing solutions



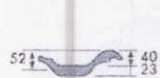
The versatile concrete tile for low pitched roofing solutions



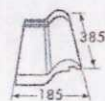
- Manufactured since 1962
- Can be laid as low as 10°*
- Wind barriers behind leading edge to combat wind driven rain
- Hidden tile clip fixing
- Available in 5 colours
- Range of dry fix fittings
- Kitemarked to BS EN 490
- 60 year guarantee

* On some simple roof designs Centurion® can be laid down to a 10° roof pitch, please refer to information opposite.

Red Centurion on a private house extension in Speedwell, Bristol.



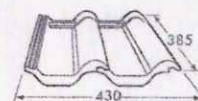
Centurion



LH verge tile



RH verge tile



Bonded double tile



Vent tile

[2400mm² min pitch 20°]

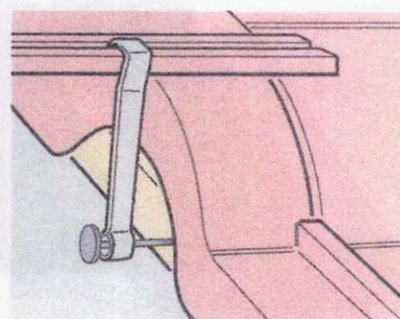
Note: Bonded double tiles are available on request. These tiles may be required depending on roof pitch when cutting into hips, valleys, abutments and around rooflights

Product designation in accordance with: T - EN490 - IL - 40 - RF - 197- / - / - 368 - 2,9

Centurion® fixing

Fixing: All tiles should be clipped by fitting a tile clip over the underlock and nailing with a 50 x 3,35mm nail into the batten below

When using verge clips it will be necessary to use half tiles. Left and right hand verge tiles are available on request. Factors governing the mechanical fixing of Forticrete slates and tiles are contained in BS 5534:2003 Slating and Tiling



Pitch	Underlay horizontal lap	Rafter length	Headlap	Max batten spacing	Min batten spacing	Batten required @100mm headlap	Tiles required @100mm headlap	Mass (approx) @100mm headlap
†10° - 12.5°	300mm min	5m max	100-110mm	285mm max	275mm min	3.5 lin m/m ²	17.5/m ²	50kg/m ²
12.5° - 44°	225mm min	10m max	100-110mm	285mm max	275mm min	3.5 lin m/m ²	17.5/m ²	50kg/m ²

†Please refer to information opposite.

Batten size: 38mm x 25mm for spans up to 450mm, 50mm x 25mm for spans from 450mm up to 600mm in accordance with BS 5534:2003.

NB: The minimum pitch is based on a maximum rafter length of 10m for pitches of 12.5° and above and 5m for pitches below 12.5°. For rafter lengths greater than this, please contact the Forticrete Technical Advisory Service. Forticrete recommend that roof lights should not be fitted below 15° unless approved by the Technical Advisory Service.

Centurion® Roof Tiles – for use between 10 - 12.4°:

- 1) The tile gauge (batten spacing) should be set at 285mm maximum and 275mm minimum.
- 2) The roof should be either a single or duo pitch roof shape without hips, valleys, tile vents, soil stacks, sun pipes, rooflights or solar systems.
- 3) The roof should be single storey only.
- 4) The roof should be located in a sheltered geographical position.
For example: Non coastal, not on open elevated sites, not in open countryside.
- 5) The maximum rafter length of the Centurion roof should not exceed 5 metres (including overhang into the gutter).
- 6) Other roof areas above the Centurion® roof should have their own independent drainage system.
- 7) Down pipes from higher level roofs should not discharge onto the surface of the lower Centurion® roof.
- 8) The head or the tail of the tile should not be cut as this will impair the product's performance.
- 9) Centurion® ventilation tiles should not be installed below 20°.
- 10) Centurion® tiles should all be clipped over the interlock and nailed (50x3.35mm) through the clip into the edge of the tile batten below.
- 11) Centurion® half tiles should be used at the verges by cutting off either the right hand roll or left hand interlock roll so that the central flat area protrudes between 38 to 50mm from the gable structure.
- 12) Centurion® verge clips should be twice nailed to the batten ends to secure the cut verge tiles.
- 13) Bonded double tiles should be used at the verge if using Continuous Dry Verge system.
- 14) Tiles should lie at a constant pitch across the roof and not deflect up or down over the fascia or gable wall ends which will cause gapping under the tile edges.
- 15) A felt support tray should be installed over the top of the fascia board to transfer any moisture contained in the batten cavity out of the roof.
- 16) The horizontal laps in the underlay should be a minimum of 300mm for pitches below 12.5°.
- 17) All lead work should conform to current Lead Sheet Association detail.
- 18) Forticrete recommend the use of roof ventilation in accordance with BS5250.

Centurion® colour range



Autumn



Red



Brown



Rustic



Slate Grey

Guarantee

The colour of Centurion® tiles will change with natural weathering, but the integrity of the tile carries a 60-year 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.

Working procedures, safety & general precautions

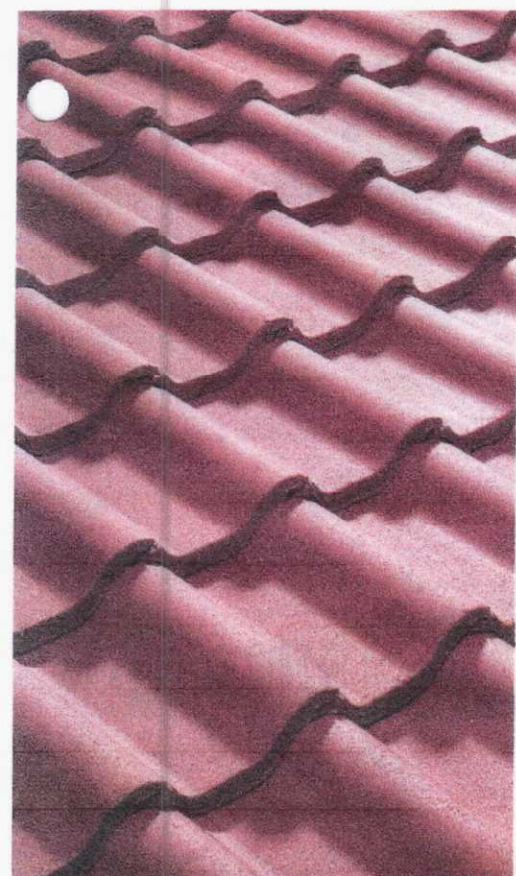
Tiles should be fixed in accordance with BS 5534:2003. Forticrete recommend that fixers of all slates and tiles regard the products as fragile as stated in BS8000:Pt6:1990 Section 5. During installation of the products, the correct setting out and working procedures should be employed to avoid walking 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 between crawling boards, cat ladders and the surface of the tiles or slates to avoid damage to the product.

Fixers should note that Forticrete do not recommend the practice of cutting tiles or slates in-situ.

Other information can be obtained from the Health and Safety in Roof Work publication HSG33 and in the 'Working on Roofs' publication INDG284. Reference should also be made to the Forticrete Technical Literature and Fixing Instructions.

www.forticrete.co.uk



Order your *Centurion*[®]10 from:

Approved stockist



Product samples

The colours reproduced within this brochure are as accurate as the photographic and printing processes will allow. Where colour matching is critical, you are advised to view actual product samples.

These are readily available by calling 01525 244900 or the sample request area of our website – www.forticrete.co.uk

For larger projects, sample panels can be provided.

Centurion[®] Roofing Systems & Technical enquiries:

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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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