Forticrete roofing
an IBSTOCK plc company

Gemini® Interlocking Twin Plain Tile

The roofing tile that has caused a revolution
Double cambered plain tile appeal at pitches down to 22.5°

Gemini® is a true innovation in roof tile design. With its ‘double cambered’ design, this interlocking concrete tile, gives the appearance of traditional plain tiles when laid.

Because of Gemini’s design, fewer tiles are required to cover the same area as a conventional double lapped plain tile. This innovative product assists in reducing the build cost, and helps to reduce the environmental impact by reducing the amount of quarried aggregate used, and haulage movement per laid m².
New build housing

New home builders have discovered the benefits that Gemini® can give them in improving kerb appeal, whilst increasing the flexibility of their design options at much reduced costs compared to plain tiles.

Developers, self-builders and planning authorities recognise Gemini’s ability to match local vernaculars and add aesthetic appeal.

For example, the Mixed Russet and Sunrise Blend colours enable builders to achieve a clay plain tile appearance with significant savings on materials and labour, in addition to the considerable environmental benefits.

Gemini® Mixed Russet at David Wilson Homes, Biggleswade, Bedfordshire.

Commercial

Gemini® suits both modern and traditional building design. DWA Architects looked to the Forticrete Gemini® for a new multi-million pound, 105 bed care home in Kettering, to complement the 19th century architecture of a Grade II Listed Victorian villa which lies on the grounds. As project architects, DWA Architects required a roofing solution that would blend in with the handmade clay plain roof tiles on the 19th Century building. The Rustic colour and characteristics of Forticrete’s Gemini® roof tile provided the answer they were looking for.

Gemini® Jacobean at Cloverleaf Restaurants, Willington, Derbyshire.
Gemini® is equally as cost-effective for refurbishment as for new build.

Local Authorities and Housing Associations throughout the country have discovered that their budgets will stretch much further when using Gemini® as the re-roofing solution compared to plain tiles. Derby City Council, Wansbeck District Council, Harrogate Borough Council, Northampton Borough Council and the London Boroughs of Ealing and Greenwich are just some of the authorities who have worked alongside Forticrete to replace tired and defective roofs with complete, modern Gemini® tile systems.

This Decent Homes programme in Gateshead successfully incorporated the Gemini® in Mixed Russet as part of a re-roofing scheme. This enhanced the dwellings’ appearance whilst maintaining the character of a plain tiled roof.

Social housing - Re-roofing

Social housing - New Build

New social housing developments need to achieve a higher standard of build quality, and Gemini® can deliver these requirements in all aspects. Gemini® tiles have been selected for projects to provide traditional plain tile finishes to complement local area and planning requirements. As the tiles interlock they speed up the roofing program so that scaffolding can be dropped sooner – allowing access for other trades to complete their work.

Social housing - New Build

Gemini® Slate Grey, South Yorkshire Housing Association, Rotherham.

Wolverhampton City Council re-roofing scheme using Gemini® Red and associated Dry Fix system.

Before re-roofing

After re-roofing
The award winning tile that’s helping developers, planners and the environment

- Aesthetic appearance of a traditional plain tile when laid
- Only 16.3 tiles per m² (60 for plain tiles)
- 40% CO₂ saving in manufacture compared to concrete plain tiles
- Greater roof area covered per load delivered = reduced CO₂
- 20% fixing labour savings in comparison to plain tiles
- 30% reduction in weight
- 42% timber savings on roof battens
- 6% timber savings on roof trusses
- Lays to lower pitches – 22.5° (plain tiles 35°)
- Thin leading edge
- Hidden fixings including tile clip
- Full range of dry-fix fittings and ventilation products
- Kitemarked to BS EN 490
- 60 year product integrity guarantee
- Registered design

Accreditations

- Gemini® holds the quality Kitemark BS EN 490
- Forticrete is certified to the International Environmental Standard BS EN ISO 14001
- BES6001 for Responsible Sourcing of Construction Products – all seven factories are rated as either good or very good
- We operate to BS EN ISO 9001 for Quality Management
- A+ BREEAM Rating – assessment method for sustainable buildings
- Building Confidence certified, the standard for supplier excellence

Available in 6 colours

Sunrise Blend (Pre-blended)  Mixed Russet (Pre-blended)  Jacobean (Made to order)

Red  Brown  Slate Grey

Guarantee

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. Roof tiles and slates may become scuffed during transportation or installation. This does not affect the performance of the products and the appearance will improve with weathering in due course.

Tile colours may change over time due to weathering. Where an exact colour match is required, you are advised to view several tile samples.

Gemini® qualifies as an ECOTILE® PLUS under Forticrete’s unique marking scheme, signifying that it conforms to a specified range of environmental criteria.
Gemini® tile dimensions and specifications

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Headlap</th>
<th>Batten spacing</th>
<th>Batten required</th>
<th>Tiles required</th>
<th>Mass (approx)</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.5° - 29.5°</td>
<td>80mm min</td>
<td>190mm max</td>
<td>5.26 lin m/m²</td>
<td>16.6m²</td>
<td>47kg/m²</td>
</tr>
<tr>
<td></td>
<td>95mm max</td>
<td>175mm min</td>
<td>5.70 lin m/m²</td>
<td>18.1m²</td>
<td>51kg/m²</td>
</tr>
<tr>
<td>30° - 70°</td>
<td>75mm min</td>
<td>195mm max</td>
<td>5.13 lin m/m²</td>
<td>16.3m²</td>
<td>45kg/m²</td>
</tr>
<tr>
<td></td>
<td>95mm max</td>
<td>175mm min</td>
<td>5.70 lin m/m²</td>
<td>18.1m²</td>
<td>51kg/m²</td>
</tr>
</tbody>
</table>

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

Working procedures, safety & general precautions

Tiles should be fixed in accordance with the current version of BS5534. To obtain your site specific fixing specification please visit www.myforticreteroof.co.uk. Forticrete recommend that fixers of all slates and tiles regard the products asfragile as stated in BS8000. 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 footpaths, 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.

Fixing specification

The site exposure, geographical location and roof complexity will determine the tile fixing specification. Site specific fixing specifications should be obtained from the technical department prior to installation.

- All tiles must be nailed
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Note: Bonded double tiles may be required for hip and valley details. These tiles are available on request. © Registered design no. 2096657

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Order your Gemini® from:

Approved stockist

This document does not form part of any contract and Forticrete cannot accept liability for any errors or omissions.

In order to maintain its position as a market leader, Forticrete operates a policy of continuous product development and therefore reserves the right to alter specifications without notice.

Although the instructions contained in this publication and any other information published by Forticrete are believed to be accurate at the date of publication, they are entirely for guidance only and Forticrete accepts no liability in relation to their use or for any losses, however caused. You are responsible for taking all reasonable steps to ensure your use of the good/products conforms to all applicable health and safety requirements from time to time. If in doubt please consult appropriately qualified persons. All products sold by Forticrete are sold subject to Forticrete’s Terms and Conditions of Sale, a copy of which is available on request.

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