



**GEMINI<sup>®</sup>**  
**THE ORIGINAL**  
**TWIN TILE**

[CLICK TO FIND OUT MORE](#)

# CONTENTS



# IBSTOCK CONCRETE. AT THE VERY HEART OF CONSTRUCTION.

At Istock Concrete, we are proud to be a business that sits at the very heart of the building and construction supply chain, as one of the UK's leading manufacturers of concrete building products.

## **ENSURING CUSTOMER SATISFACTION IS OUR NO.1 PRIORITY**

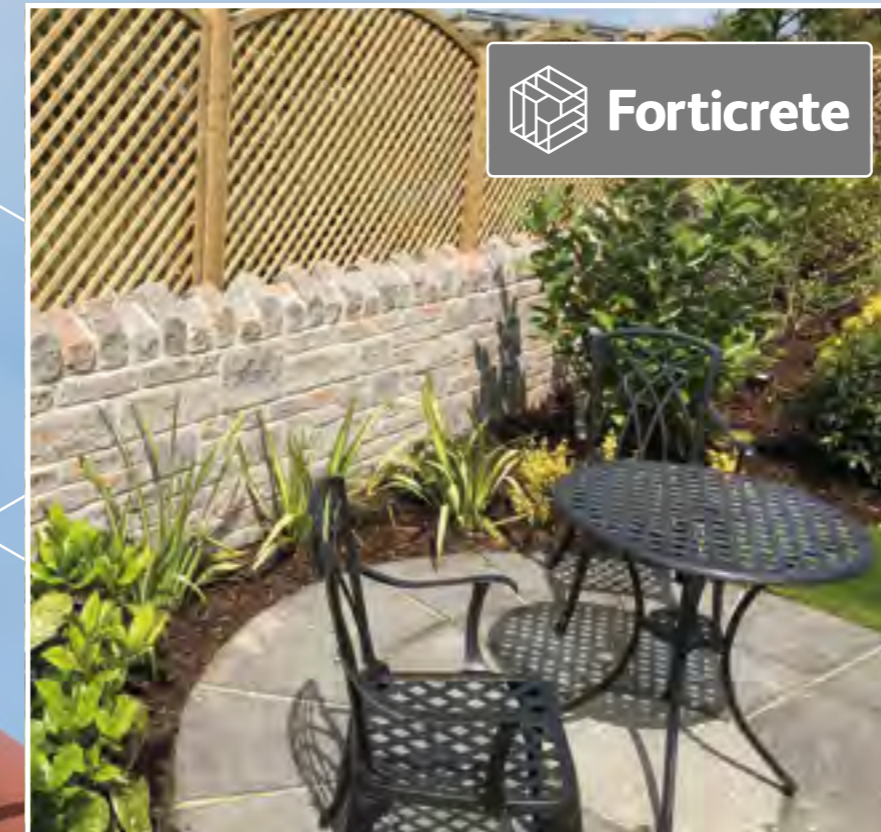
It is our aspiration to **support our customers** as they develop homes and spaces that inspire people to work and live better.



# OUR EXTENSIVE RANGE OF HIGH QUALITY SOLUTIONS

Part of Istock plc, we supply an extensive range of high quality solutions into the market, through our Forticrete, Supreme, Longley and Anderton brands.

From traditional and contemporary walling stone products, roof tiles, cast stone and architectural masonry, right through to fence posts and beam and block flooring, our wide range of products for both residential and commercial projects set the benchmark for quality, innovation and sustainability, bolstered by first-class service and support.



# GEMINI® THIS IS ONLY HALF THE STORY...

With the advancement of key building technologies setting the pace of the industry through a desire for efficiency, sustainability and lower costs, you won't find many products on a new building today that you would have found 25 years ago. Gemini® is the exception.

Since its conception as the first ever Flat Thin leading edge Twin Plain tile in 1995, Gemini® has undergone two redesigns that have ensured its **usefulness** and **popularity** among housebuilders, architects and contractors alike has remained strong. Known as the original twin tile, Gemini® is a true **innovation** in roof tile design, with its double camber technology giving the appearance of **two traditional plain tiles** when laid.



# GEMINI® THIS IS ONLY HALF THE STORY...

An invention that has changed the foundations of roof tiling and has since received a Queen's Award for Enterprise – Innovation being the only twin tile to currently hold the accolade.

Whether residential or commercial, building projects face new and difficult challenges on an ongoing basis. Labour and time issues are two in particular that can cause developers big problems and become costly. That is why contractors and developers are turning to **innovative roofing solutions** such as Gemini®, that proactively assists them in achieving a greater rate of building without compromising on **quality, sustainability** and **aesthetics**.



# GEMINI® – AN AESTHETIC TO SUIT YOUR PROJECT

Gemini® smooth design roof tiles deliver an ideal finish for developers to provide their project with outstanding aesthetics. To complete the look for your development, there are seven colours of tile to choose from.

Pre-blended options include **mixed russet** and **sunrise blend**, while originals such as **red, brown** and **slate grey** are available. Each option is designed to provide housebuilders and commercial property developers with choice for their project, offering a **solution to aesthetics** whether they're desired or required in order to fit in with local community standards and appearances.



# GEMINI®

## DOUBLE CAMBERED PLAIN TILE APPEAL AT PITCHES DOWN TO 22.5°



Scan the QR code for instant access to our Gemini® products

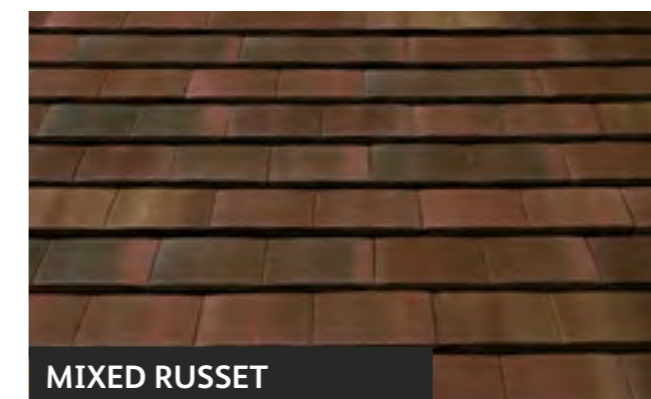
### WHY CHOOSE GEMINI® VERSUS PLAIN TILES?

- Aesthetic appearance of a traditional plain tile when laid
- Only 16.3 tiles per m<sup>2</sup> (60 for plain tiles)
- 40% CO<sub>2</sub> saving in manufacture compared to concrete plain tiles
- 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
- Range of dry fix fittings and ventilation products are available to satisfy NHBC requirements
- Kitemarked to BS EN 490
- 60 year product integrity guarantee
- Registered design

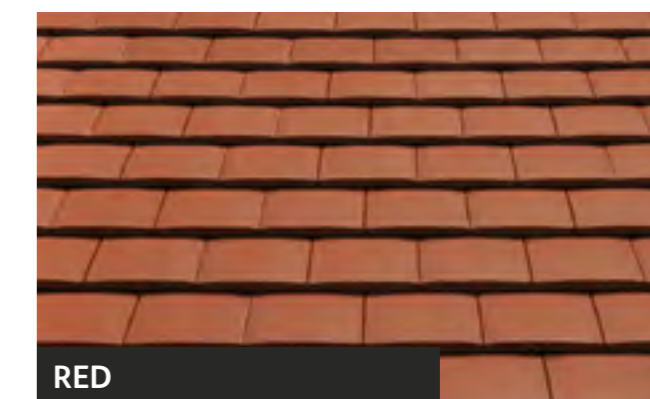
### COLOUR RANGE



SUNRISE BLEND



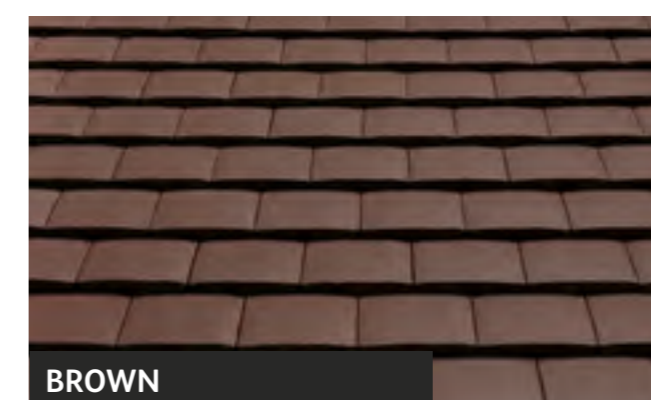
MIXED RUSSET



RED



GREY



BROWN





# GEMINI®

DOUBLE CAMBERED PLAIN TILE  
APPEAL AT PITCHES DOWN TO 22.5°

## TECHNICAL DATA

<b>Overall Length</b>	270mm
<b>Hanging Length</b>	243mm
<b>Overall Width</b>	337mm
<b>Cover Width</b>	316mm
<b>Mass (approx.)</b>	2.8 kg

## PITCH RANGE

### 22.5° - 29.5°

<b>Headlap</b>	80mm min	95mm max
<b>Batten Spacing</b>	190mm max	175mm min
<b>Batten Required</b>	5.26 lin m/m <sup>2</sup>	5.70 lin m/m <sup>2</sup>
<b>Tiles/m<sup>2</sup></b>	16.6 /m <sup>2</sup>	18.1 /m <sup>2</sup>
<b>Weight kg/m<sup>2</sup></b>	47 kg/m <sup>2</sup>	51 kg/m <sup>2</sup>

### 30° - 70°

<b>Headlap</b>	75mm min	95mm max
<b>Batten Spacing</b>	195mm max	175mm min
<b>Batten Required</b>	5.13 lin m/m <sup>2</sup>	5.70 lin m/m <sup>2</sup>
<b>Tiles/m<sup>2</sup></b>	16.3 m <sup>2</sup>	18.1 m <sup>2</sup>
<b>Weight kg/m<sup>2</sup></b>	46.25 kg/m <sup>2</sup>	51 kg/m <sup>2</sup>

## BATTEN SIZE RECOMMENDED

50 x 25mm for spans up to 600mm  
(Fixed in accordance with current British Standard BS5534)

## NAIL SIZE

45mm x 3.35mm aluminium nail

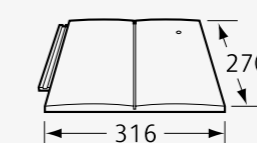
## TILE DESIGNATION

T-EN 490-IL-0-RF-316-/-/243-2,8

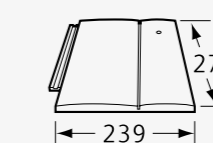
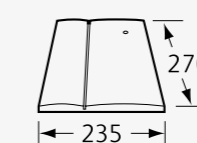
The maximum rafter length should not exceed 9m without consulting the Forticrete Technical Department

Forticrete recommend the use of positive ventilation in roof spaces in accordance with the Current British Standard BS 5250 – Control of Condensation in Buildings

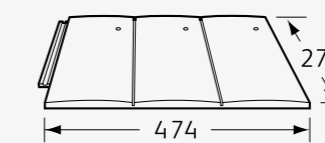
CAD details available online [www.forticrete.co.uk](http://www.forticrete.co.uk)



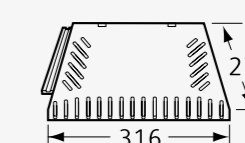
Gemini Tile



Left and right hand 3/4 Verge Tile



Tile and Half

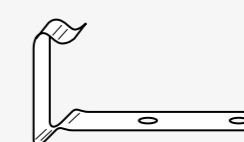


Tile Vent

(Available as Air or Soil Vent Kit)



Tile Clip



Verge Clip



Possessing the appearance of a ***traditional plain tile*** when laid is one of the many reasons Gemini® has proved so popular.

# REDUCING LAYING TIME IS ONLY HALF THE STORY



## 16.3

Requires just 16.3 tiles per m<sup>2</sup> as opposed to 60 for plain tiles.



## SAVE

Cheaper and quicker to lay in comparison to other plain tile versions.



## SPEEDY

Tile size ensures greater roof area covered per load delivered.



## 20%

Fixing labour savings compared to other plain tile versions.



## +30%

Almost a third in reduction of weight to its competitors.



## 11MM EDGE

Along with its thin leading edge of just 11mm and double camber design



## 22.5° PITCH

Ability to lay lower pitches at 22.5° opposed to 35° offered by plain tiles

# INCREASED MANUFACTURING TO MEET DEMAND

## COMMITTED TO ENHANCING OUR PERFORMANCE

As part of Istock's commitment to delivering customer service excellence, we are always looking at ways that we can enhance our operational performance and efficiencies to exceed the demands of the UK market.

We understand that our role in the supply chain is about ensuring our customers have **access to the right products**, at the right place when they need them. This is why we are constantly reviewing our processes, which has included **significant investment** towards the Gemini® range.

## IMPROVING PRODUCTION

In its earlier years, Gemini® sales success swiftly overtook production capabilities, so, backing the product and its potential for longevity, the decision was made to relocate to a new facility, which is now one of the largest roof tile plants in the world, down the road from the original manufacturing facility in Leighton Buzzard.



### Advanced output

This relocation greatly improved production capabilities thanks to investment in state-of-the-art robotic and automated machinery, allowing Istock to meet any and all increases in demand.



### Product redesign

The facility also enabled a further redesign of the Gemini® product, which is the version used today, providing a much stronger interlock and increase in general strength and size.



### Product demand

The demand for Gemini® continues to grow with more than 6million tiles being used in Kent and East Sussex alone, so far.

# REDUCING ENVIRONMENTAL IMPACT IS ONLY HALF THE STORY

Environmental and sustainability considerations are increasing in prominence as new developments in both housing and commercial properties continue to 'go greener' in order to meet regulations and offer an environmentally friendly building.

This is where Gemini® excels, as while larger in size, it is also **lighter in weight** than both single plain tiles and its double tile competitors enabling it to offer environmental benefits that the others can not. Gemini® requires less tiles to complete a waterproof envelope and the **reduction in demand for raw materials** this provides, leads to less quarried aggregate used in comparison to both plain concrete and clay roof tiles.



# REDUCING ENVIRONMENTAL IMPACT IS ONLY HALF THE STORY

Other key environmental considerations of Gemini® include less tiles needing to be transported to site, less valuable minerals needing to be extracted, less waste minerals generated, less packaging, fewer pallets used, lighter haulage loads and an overall reduction in the number of trucks needed on the road to distribute the product.

All of these key environmental benefits lead to Gemini® possessing the **smallest carbon footprint for roof tiles**, and in some cases offering CO2 savings of more than half to other plain tile versions. The product has also gained recognition for its **sustainability** and environmentally friendly characteristics, earning an **A+ rating** in the BRE Green Guide, the highest possible rating.





For more information or to discuss your project requirements, please call us on **01909 775 052** or email [\*\*info@forticrete.com\*\*](mailto:info@forticrete.com)