



Forticrete

Roofing pocket guide



**A COMPREHENSIVE
RANGE OF PRODUCTS
UNDER ONE ROOF**



Ibstock

At the heart of building



Contents

Roofing products that top the lot	04
Guarantee	05
SL8®	06-07
Gemini®	08-09
Gemini® Traditional Sandfaced	10-11
Minislate®	12-13
PAN8®	14-15
Hardrow® Slates	16-17
Centurion® 10	20-21
V2®	22-23
Senator®	24-25
Plain Tiles	26-27
Standard Fittings	28-29
Ornamental ridges	30
Hardrow® Slates fittings	31
Dry fix and ventilation systems	32-36
Working Procedures, Safety and General Precautions	37
Technical services	38-39

Roofing products that top the lot

Forticrete roofing is a leading innovator in the design and production of concrete roof tiles and slates.

Each product is manufactured to the highest quality standards, to an ISO 9001 quality management system and in tile and slate manufacturing plants that are certified to ISO 14001, the international environmental standard.

All of our products are able to fly the prestigious BS Kitemark and the company's commitment to creating products and processes that are friendly to the environment enables specific products to carry the ECOTILE or ECOSLATE trademarks.



EMS 74048



FM 11084



KM 11083

Forticrete can demonstrate responsible sourcing for 100% of its products

As a supplier of construction products to the industry we are very aware of the impact our products have on people, the environment and the economy. Certification to BES 6001 enables our customers to source from us with even greater confidence.

The BES 6001 framework standard is an independent certification scheme which assesses responsible sourcing policies and practices throughout the supply chain of construction products. With one assessment covering raw material, its manufacture and delivery, its use, re-use and recyclability, the universal rating system enables architects, specifiers and construction professionals to meet sustainability targets more easily.

Under the BES 6001 Framework Standard, products are assessed by looking at existing quality, environmental, health and safety management systems together with other important criteria including:

- Global warming emissions
- Minimising raw material usage
- Labour practice
- Biodiversity
- Social dimensions and impacts

Products are rated as Pass, Good, Very Good or Excellent depending on the number of optional points achieved. Requirements for demonstrating compliance with the Framework Standard fall within 3 categories. Since we work with external suppliers that already operate good management systems we were able to achieve a 'very good' rating in all our roof tile sites against the criteria.

Construction products certified against the BES 6001 standard are awarded different tiers and therefore points depending on the certification level achieved.

Guarantee

All Forticrete tiles and slates carry a product Integrity Guarantee from date of supply, subject to the company's normal terms. Forticrete's 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.

Where an exact colour match is critical, you are advised to view actual tile samples.



Hardrow® Slates Duets®

Barley on a Barn Conversion at Chesterton, Oxon



Minislate®

Grey on Bowey Homes, Fulwell, Sunderland



KM 11083

SL8®

Left: 10 Competitor tiles
Right: 8 SL8 tiles
These stacks of tiles cover the same area.



The visual characteristics of natural slate with benefits that no other interlocking tile can match.

- A thin leading edge for impressive aesthetics
- A wider format for a more traditional slate appearance
- Superior coverage at just 8 tiles per square metre
- 20% reduction in the number of tiles used resulting in fewer tiles to handle and lay
- Easy to lay, with two nail holes for better fixing flexibility
- High strength meaning fewer breakages
- Packaging has been specifically designed to reduce damage and waste on-site
- The design makes loading out of the tiles onto the roof safe and secure
- Latest manufacturing technology ensures consistent quality
- A full range of roofing accessories available

TECHNICAL DATA	
Overall Length	420mm
Hanging Length	396mm
Overall Width	390mm
Cover Width	362mm
Mass (approx.)	5.4 kg

PITCH RANGE	
Minimum Pitch*	17.5°
Maximum Pitch	75°
Minimum Headlap	75mm
Maximum Headlap	100mm
Minimum Batten Spacing	320mm
Maximum Batten Spacing	345mm
Batten Required	2.9 lin m/m ²
Tiles Required	8.01 /m ²
Mass (approx.)	43.24 kg/m ²
Batten Required	3.13 lin m/m ²
Tiles Required	8.63 /m ²
Mass (approx.)	46.62 kg/m ²



Scan the QR code with your smartphone for instant access to our SL8® products.

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-362-/-/-396-5,4

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

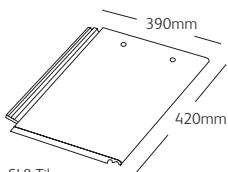
Forticrete recommend the use of positive ventilation in roof spaces in accordance with the Current British Standard BS 5250 – Control of Condensation in Buildings.

CAD details available online

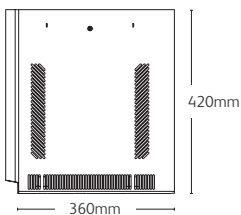
www.forticrete.co.uk



SL8®
Slate Grey



SL8 Tile



SL8 Tile Vent



Tile Clip



Perimeter Clip

COLOUR RANGE



Red



Brown



Slate Grey



KM 11083



Gemini®

Double cambered plain tile appeal at pitches down to 22.5°.

- 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
- 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

TECHNICAL DATA	
Overall Length	270mm
Hanging Length	243mm
Overall Width	337mm
Cover Width	316mm
Mass (approx.)	2.8 kg

PITCH RANGE		
22.5° - 29.5°		
Headlap	80mm min	95mm max
Batten Spacing	190mm max	175mm min
Batten Required	5.26 lin m/m ²	5.70 lin m/m ²
Tiles/m ²	16.6 /m ²	18.1 /m ²
Weight kg/m ²	47 kg/m ²	51 kg/m ²
30° - 70°		
Headlap	75mm min	95mm max
Batten Spacing	195mm max	175mm min
Batten Required	5.13 lin m/m ²	5.70 lin m/m ²
Tiles/m ²	16.3 m ²	18.1 m ²
Weight kg/m ²	46.25 kg/m ²	51 kg/m ²



Scan the QR code with your smartphone for instant access to our Gemini® products.

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.

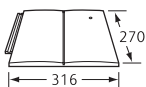
CAD details available online

www.forticrete.co.uk

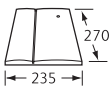


Gemini®

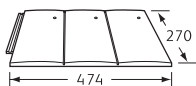
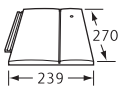
Mixed Russet on 4 cottages in Ironbridge Gorge, Telford



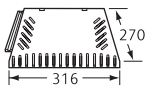
Gemini Tile



Left and right hand 3/4 Verge Tile



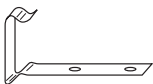
Tile and Half



Tile Vent
(Available as Air or Soil Vent Kit)



Tile Clip



Verge Clip

COLOUR RANGE



Sunrise Blend



Mixed Russet



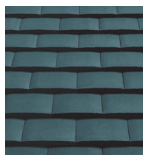
Red



Grey



Brown



Welsh Blue



KM 11083



Gemini® Traditional Sandfaced

With a subtle weathered finish, the award winning Ecotile® has just got better.

- Traditional sandfaced appearance
- Riven texture
- Thin uneven leading edge
- Only 17.2 to 18.1 tiles per m² (60 for plain tiles)
- Hidden tile fixings
- Range of Dry Fix systems are available to satisfy NHBC requirements
- Kitemarked to BS EN 490
- 60 year Product Integrity Guarantee
- Less weight per m² than plain tiles
- 40% CO₂ saving in manufacture compared to concrete plain tiles



Scan the QR code with your smartphone for instant access to our Gemini® Traditional Sandfaced products.

TECHNICAL DATA	
Overall Length	270mm
Hanging Length	243mm
Overall Width	337mm
Cover Width	316mm
Mass (approx.)	2.8 kg

PITCH RANGE		
30° - 70°		
Headlap	75mm min	95mm max
Batten Spacing	195mm max	175mm min
Batten Required	5.40 lin m/m ²	5.71 lin m/m ²
Tiles/m ²	16.23 /m ²	18.1 /m ²
Weight kg/m ²	46.25 kg/m ²	51 kg/m ²

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.

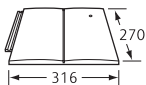
CAD details available online

www.forticrete.co.uk

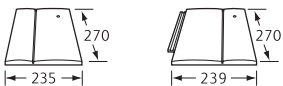


Gemini®

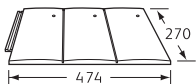
Traditional Sandfaced Mercia Blend on Belbroughton Developments, Wombourne, Staffs



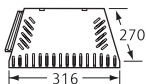
Gemini Tile



Left and right hand 3/4 Verge Tile



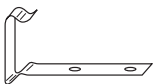
Tile and Half



Lo-Vent Tile
(Available as Air or Soil Vent Kit)



Tile Clip



Verge Clip

COLOUR RANGE



Ember Blend
(Granular finish)



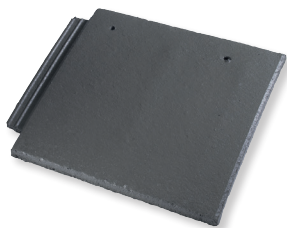
Mercia Blend
(Granular finish)

NOTE:

Mercia and Ember Blends are also available as Plain Tiles.



KM 11083



Minislate®

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

- 20 x 12 natural slate scale when laid
- Fibre-free composition
- Fixed as simply as conventional interlocking tiles
- Hidden fixings, including tile clip
- Range of Dry-Fix fittings and ventilation products
- Kitemarked to BS EN 490
- Product integrity guarantee



Scan the QR code with your smartphone for instant access to our Minislate® products.

TECHNICAL DATA	
Overall Length	270mm
Hanging Length	243mm
Overall Width	337mm
Cover Width	316mm
Mass (approx.)	2.8 kg

PITCH RANGE		
22.5° - 29.5°		
Headlap	80mm min	95mm max
Batten Spacing	190mm max	175mm min
Batten Required	5.26 lin m/m ²	5.70 lin m/m ²
Tiles/m ²	16.6 m ²	18.1 m ²
Weight kg/m ²	47 kg/m ²	51 kg/m ²
30° - 70°		
Headlap	75mm min	95mm max
Batten Spacing	195mm max	175mm min
Batten Required	5.13 lin m/m ²	5.70 lin m/m ²
Tiles/m ²	16.3 /m ²	18.1 /m ²
Weight kg/m ²	45 kg/m ²	51 kg/m ²

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.

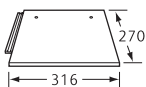
CAD details available online

www.forticrete.co.uk

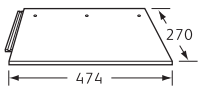


Minislate®

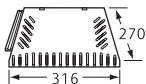
Slate Grey on Amberstone Developments, Roundhay, Leeds



Minislate



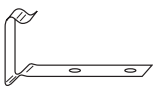
Slate and Half



Lo-Vent Tile
(Available as Air or Soil Vent Kit)

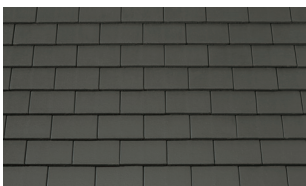


Tile Clip



Verge Clip

COLOUR RANGE



Grey



Welsh Blue



KM 11083



PAN8®

The visual characteristics of a traditional clay pantile with benefits that no other interlocking tile can match.

- A thin leading edge for impressive aesthetics
- A wider format for a more traditional pantile appearance
- Superior coverage at just 8 tiles per square metre.
- 20% reduction in the number of tiles used resulting in fewer tiles to handle and lay
- Tiles are factory blended to ensure fewer colour batching variations
- A full range of maintenance free, mechanically fixed accessories is available
- Easy to lay, with two nail holes for better fixing flexibility
- High strength meaning fewer breakages
- Packaging has been specifically designed to reduce damage and waste on-site
- The design makes loading out of the tiles onto the roof safe and secure
- Latest manufacturing technology ensures consistent quality
- A full range of roofing accessories available

TECHNICAL DATA

Overall Length	420mm
Hanging Length	398mm
Overall Width	390mm
Cover Width	367mm
Mass (approx.)	4.9kg

PITCH RANGE

Minimum Pitch*	25°
Maximum Pitch	75°
Minimum Headlap	75mm
Maximum Headlap	100mm
Minimum Batten Spacing	320mm
Maximum Batten Spacing	345mm
Batten Required	2.90 lin m/m ²
Tiles Required	7.90 /m ²
Mass (approx.)	38.70 kg/m ²
Batten Required	3.13 lin m/m ²
Tiles Required	8.51 /m ²
Mass (approx.)	41.72 kg/m ²

BATTEN SIZE RECOMMENDED

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

NAIL SIZE

40mm x 3.35mm aluminium nail

TILE DESIGNATION

T-EN 490-IL-28-RF-367-/-/398-4,9

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

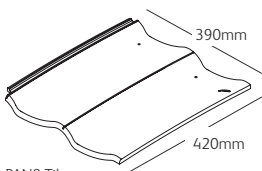


Scan the QR code with your smartphone for instant access to our PAN8® 10 products.

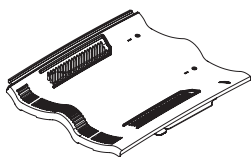


PAN8®

Brown tiles on a new housing development



PAN8 Tile



PAN8 Tile Vent

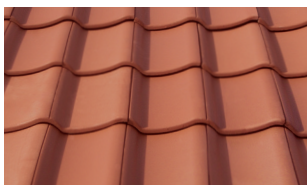


Tile Clip

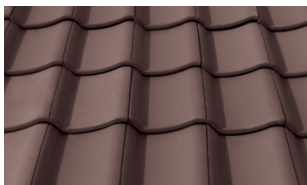


Perimeter Clip

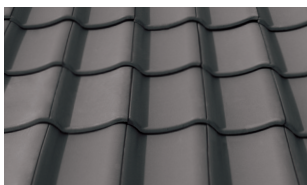
COLOUR RANGE



Red



Brown



Slate Grey



KM 51735



Hardrow® slates

Creating a tradition on British roofs for over 80 years.

- Stone Slate effect
- Flexibility of roof design
- Choice of 6 Solos and 3 Duets colours
- Choice of 4 Harmonies blends and 5 other popular mixes
- Wide range of sizes
- Extensive pitch capability
- Purpose made fittings to suit roof detailing
- Standard slate sizes, diminishing course or random widths
- Through coloured
- Range of Dry Fix fittings and Ventilation products
- Exceptional water resistance
- Kitemarked to BS EN 490
- 30 year product integrity guarantee

NOMINAL SLATE SIZE	457MM X 305MM (18" X 12")	457MM X 457MM (18" X 18")		610MM X 457MM (24" X 18")		
Pitch	25° and above	20°-24.5°	25° and above	17.5 - 19.5°	20°-24.5°	25° and above
Max gauge	191mm (7 1/2")	178mm (7")	191mm (7 1/2")	241mm (9 1/2")	255mm (10")	267mm (10 1/2")
Minimum headlap	75mm (3")	102mm (4")	75mm (3")	127mm (5")	100mm (4")	75mm (3")
Min side lap	95mm (3 3/4")	89mm (3 1/2")	75mm (3")	121mm (4 3/4")	102mm (4")	107mm (4")
Cover width	311mm	464mm	464mm	468mm	468mm	468mm
Nominal hanging length	407mm	407mm	407mm	560mm	560mm	560mm
Nominal thickness	14mm (9/16")	14mm (9/16")	14mm (9/16")	16mm (5/8")	16mm (5/8")	16mm (5/8")
Mass per 1000 slates	4.8 tonnes	7.2 tonnes	7.2 tonnes	10.6 tonnes	10.6 tonnes	10.6 tonnes
Number per m²	17.22	12.3	11.5	9.07	8.61	8.2
Weight per m²	83 kg	88 kg	83 kg	96 kg	91 kg	87 kg
Batten required lin m/m²	5.24	5.62	5.24	4.15	3.92	3.75
Verge slates	457mm x 457mm (18" x 18")	457mm x 686mm (18" x 27")		610mm x 686mm (24" x 27")		
Eaves and tops	330mm x 305mm (13" x 12")	305mm x 457mm (12" x 18")		457mm x 457mm (18" x 18")		

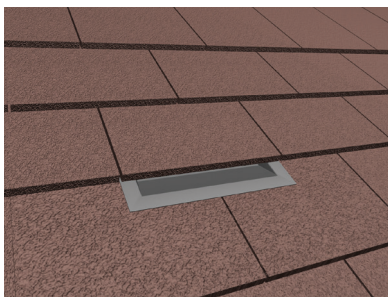


Hardrow®

Twilight and Cast Stone in Bath, David Wilson Homes, Moorbrook Mills, New Mill, Holmfirth



Purpose made fittings



Lo-vent slate

NOTE:

The minimum pitch is based on a maximum rafter length of 9m. For rafter lengths greater than this, please contact the Forticrete Technical Department.

TILE DESIGNATION

381x229 (15x9) T-EN 490-NL-0-IF-232-/-/331-3,00

457x305 (18x12) T-EN 490-NL-0-IF-311-/-/407-4,80

457x457 (18x18) T-EN 490-NL-0-IF-464-/-/407-7,20

610x457 (24x18) T-EN 490-NL-0-IF-468-/-/560-10,60

VERTICAL CLADDING

Slates for vertical cladding are available to match standard roofing slates.

*Also available as Ornamental Slates.

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

Hardrow® Slates Solos

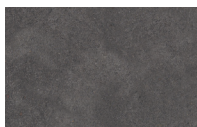
COLOUR RANGE



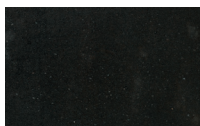
Brown



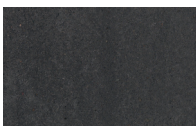
Yellow



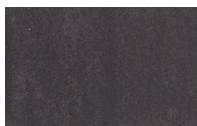
Light Grey



Old Stone



Dark Grey



Thatch

Hardrow® Slates Harmonies®

COLOUR BLEND OPTIONS (MIXED ON SITE)

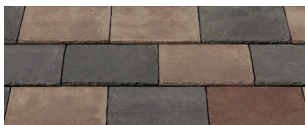
HARMONIES RANGE



Symphony



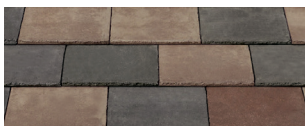
OTHER POPULAR MIXES



Collyweston



Overture



Cotswold





Hardrow® Slates Duets™
Barley laid on Bastion Homes

Hardrow® Slates Duets™

COLOUR RANGE



Barley



Twilight



Dusk

SCAN THE QR CODE WITH YOUR SMARTPHONE FOR INSTANT
ACCESS TO OUR HARDROW® SLATES PRODUCTS.



Solos™



Harmonies®



Duets®



KM 11083



Centurion®

The versatile concrete tile for low pitch applications.

- Proven in use since 1962
- On some simple roof designs Centurion can be laid down to a 10° roof pitch. Technical specifications can be found within the product literature section on our website.
- Wind barriers behind leading edge to combat wind driven rain
- Hidden fixings including tile clip
- Available in 4 colours
- Full range of dry fix fittings
- Kitemarked to BS EN 490
- 60 year product integrity guarantee



Scan the QR code with your smartphone for instant access to our Centurion® 10 products.

TECHNICAL DATA	
Overall Length	385mm
Hanging Length	368mm
Overall Width	230mm
Cover Width	200mm
Mass (approx.)	2.9 kg

PITCH RANGE	
Minimum Pitch*	10°
Minimum Pitch	12.5°
Maximum Pitch	44°
Minimum Headlap	100mm
Maximum Headlap	110mm
Minimum Batten Spacing	275mm
Maximum Batten Spacing	285mm
Batten Required	3.5 lin m/m ²
Tiles Required	17.5 /m ²
Mass (approx.)	50 kg/m ²

BATTEN SIZE RECOMMENDED

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

TILE FIXING

1 tile clip fixed with a 50mm x 3.35mm aluminium nail

TILE DESIGNATION

T-EN 490-IL-0-RF-200-/-/-368-2,9

The maximum rafter length should not exceed 9m without consulting the Forticrete Technical Department. Additional rafter length restrictions apply below 12.5°.

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

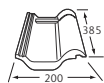
*Please refer to full Centurion Literature for restrictions on pitches below 12.5 Degrees

CAD details available online
www.forticrete.co.uk

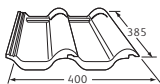


Centurion®

Red on a private house extension in Speedwell, Bristol



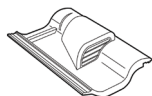
Centurion Tile



Bonded Double Tile

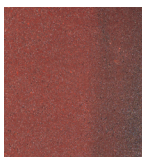


Tile Clip



Vent Tile

COLOUR RANGE



Autumn



Red



Brown



Grey



KM 11083

**V2®**

Re-engineered for ultimate strength.

- Proven in tests to be one of the strongest tiles of its type
- Interlock feature, proven to give better wind driven rain and 'ice blocking' performance
- Batten supports to allow free flow of air – keeps battens dry
- New design gives greater resistance to wind uplift
- Kitemarked to BS EN 490
- 60 year product integrity guarantee
- Banded for ease of transport and handling



Scan the QR code with your smartphone for instant access to our V2® products.

TECHNICAL DATA	
Overall Length	385mm
Hanging Length	360mm
Overall Width	230mm
Cover Width	200mm
Mass (approx.)	2.95 kg

PITCH RANGE	
Minimum Pitch	17.5° (smooth)
Minimum Pitch	22.5° (granular)
Maximum Pitch	70°
Minimum Headlap	75mm
Maximum Headlap	100mm
Minimum Batten Spacing	285mm
Maximum Batten Spacing	310mm
Batten Required	3.2 lin m/m ²
Tiles Required	16.1 /m ²
Mass (approx.)	47.58 kg/m ²

BATTEN SIZE RECOMMENDED

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

NAIL SIZE

50mm x 3.35mm aluminium nail

TILE DESIGNATION

T-EN 490-IL-0-RF-200-/-/-368-2,9

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.

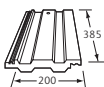
CAD details available online

www.forticrete.co.uk



V2®

Autumn on a Doctor's surgery in Ilford, London



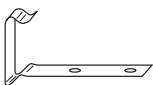
V2 Tile



Lo-Vent Tile
(available as Air or Soil Vent Kit.
Min Pitch 22.5°)

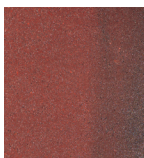


Tile Clip

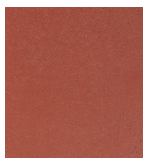


Verge Clip

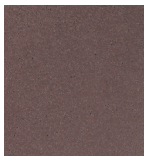
COLOUR RANGE



Autumn



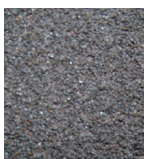
Red



Brown



Grey



Granular Brown



KM 11083



Senator®

Traditional single pantile.

- Hidden tile clip
- Available in 4 colours
- Range of dry fix fittings
- Kitemarked to BS EN 490
- 60 year product integrity guarantee



Scan the QR code with your smartphone for instant access to our Senator® products.

TECHNICAL DATA	
Overall Length	385mm
Hanging Length	368mm
Overall Width	230mm
Cover Width	200mm
Mass (approx.)	2.8 kg

PITCH RANGE	
Minimum Pitch	22.5°
Maximum Pitch	70°
Minimum Headlap	75mm
Maximum Headlap	110mm
Minimum Batten Spacing	275mm
Maximum Batten Spacing	310mm
Batten Required	3.2 lin m/m ²
Tiles Required	16.1 /m ²
Mass (approx.)	46 kg/m ²

BATTEN SIZE RECOMMENDED

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

TILE FIXING

40mm x 3.35mm aluminium nail or purpose made clip

TILE DESIGNATION

T-EN 490-IL-0-RF-200-/-/-368-2,9

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.

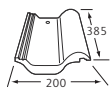
CAD details available online

www.forticrete.co.uk

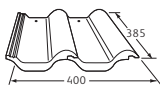


Senator®

Red on Arncliffe Homes in Scholes



Senator Tile



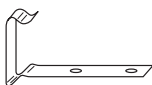
Bonded Double Tile



Vent Tile
(min. pitch 22.5°)

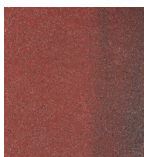


Tile Clip



Verge Clip

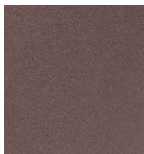
COLOUR RANGE



Autumn



Red



Brown



Grey



KM 11083



Plain tiles

Traditional 10½” x 6½” Plain tile for vertical tile hanging with Gemini and Minislate Tiles.

- Hanging nibs designed and positioned for maximum strength
- Shape designed to improve air circulation between tile and batten
- Available in 7 colours
- Through coloured
- Kitemarked to BS EB 490
- 60 year product integrity guarantee
- Manufactured in all Gemini Colours



Scan the QR code with your smartphone for instant access to our Plan Tile products.

TECHNICAL DATA	
Overall Length	268mm
Hanging Length	243mm
Overall Width	165mm
Cover Width	165mm
Mass (approx.)	1.25 kg

PITCH RANGE	
Minimum Pitch	35°
Maximum Pitch	70°
Minimum Headlap	65mm
Maximum Batten Spacing	100mm
Batten Required	10 lin m/m ²
Tiles Required	60 /m ²
Mass (approx.)	75 kg/m ²

BATTEN SIZE RECOMMENDED

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

TILE FIXING

2 x 40mm x 3mm aluminium nails

TILE DESIGNATION

T-EN 490-NL-0-RF-165-/-/-243-1,25

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 BS 5250:2011.

CAD details available online

www.forticrete.co.uk

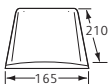


Plain Tile – Turret, Gemini® – Main Roof

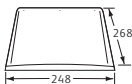
Wimpey Homes, Woolton, Liverpool



Plain Tile



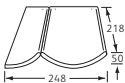
Eave and Top Tile



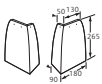
Tile and Half



Beavertail



Tile and Half



External Angles

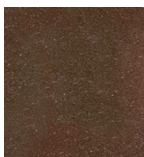


Bonnet Hip

COLOUR RANGE



Sunrise Blend



Mixed Russet



Autumn



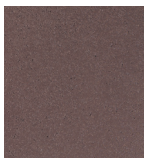
Red



Grey



Welsh Blue



Brown

NOTE:

Also available in Mercia and Ember Blends.

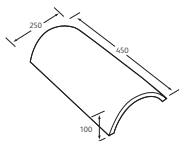
Standard fittings

Interlocking tiles (ridge Tiles available with, or without nail holes).

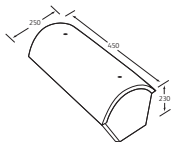
RIDGE AND HIP DETAILING

HALF ROUND RIDGE

(With or without nail holes)

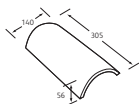


HALF ROUND RIDGE BLOCK END



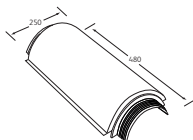
HALF ROUND BABY RIDGE

(Mortar bedded)

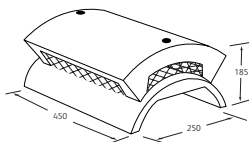


HALF ROUND LO-VENT RIDGE

(Soil Vent Kit or Air Vent Terminal)



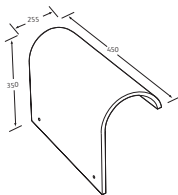
HALF ROUND GAS VENT TERMINAL KIT



FULL HALF ROUND MONORIDGE

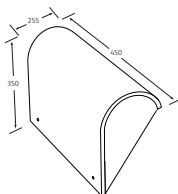
(Made to order)

(For dry vent ridge details or wet bedded)



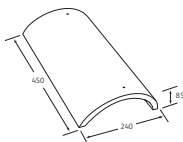
FULL HALF ROUND MONORIDGE BLOCK END

(Handed)

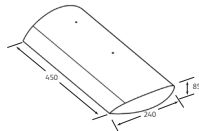


THIRD ROUND HIP

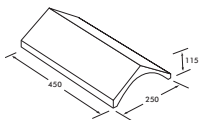
(With or without nail holes)



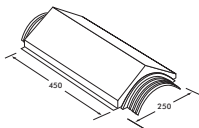
THIRD ROUND HIP BLOCK END



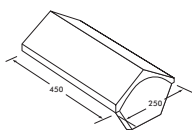
UNIVERSAL ANGLE RIDGE
(With or without nail holes)



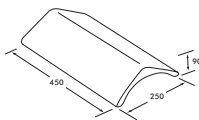
UNIVERSAL ANGLE RIDGE
(Soil Vent Kit or Air Vent Terminal)



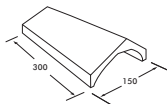
UNIVERSAL ANGLE RIDGE BLOCK END
(With or without nail holes)



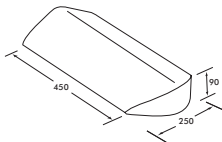
UNIVERSAL ANGLE HIP
(With or without nail holes)



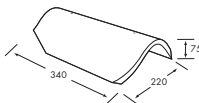
ANGLE BABY RIDGE
(Mortar bedded)



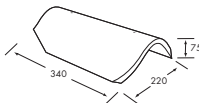
UNIVERSAL ANGLE HIP BLOCK END
(With or without nail holes)



GEMINI BONNET HIP
(Dry fix)



GEMINI BONNET HIP BLOCK END
(Dry fix)



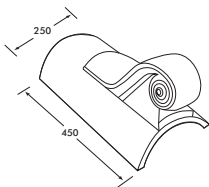


Ornamental ridges

For use with mortar bedding.

RIDGE AND HIP DETAILING

HALF ROUND SCROLL FINIAL
(Also available as a block end version)
(With nail holes)



Note: Ornamental ridges are purpose made to order and are non-returnable.

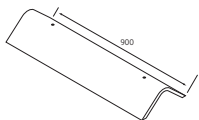
Hardrow® slates fittings

(Ridge tiles available with, or without nail holes).

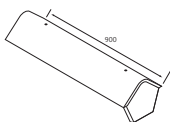
RIDGE DETAILING

Ridges available to suit roof pitches from 17.5° to 60°. Please specify at time of ordering.

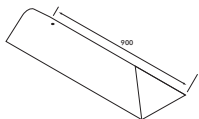
900MM ANGLED RIDGE / HIP RIDGE



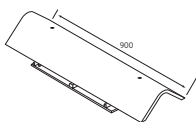
BLOCK END RIDGE (For gable ends)



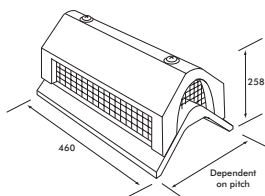
STOP END RIDGE (For hips)



HARDROW RIDGE (Soil Vent Kit or Air Vent Terminal)

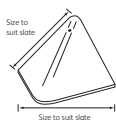


GAS VENT RIDGE TERMINAL KIT



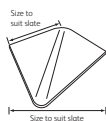
HIP DETAILING

STANDARD HIP (90° angle on plan)



VALLEY DETAILING

STANDARD VALLEY



Note: Hardrow Slates purpose made fittings are made to order and are non returnable.

Dry fix and ventilation systems



EAVES VENT PACK

- Provides up to 25,000mm²/m ventilation
- Cover 6m of eave
- BS5250 compliant

SUITABLE FOR USE WITH:

Gemini, Minislate, Hardrow Slates, Centurion, V2, Senator, SL8 and PAN8

OPTIONS:

Option 01

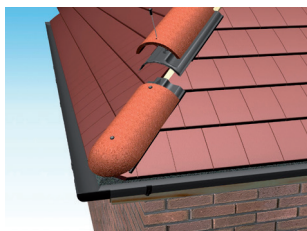
- Eaves Vent Pack
- Universal eaves filler strips
- Eaves trays

Option 02

- Eaves Vent Extension Pack
- (For use with Eaves Vent Pack)
- Eaves tray extension pieces

Option 03

- Eaves non-vented pack for profiled tiles
- Universal eaves filler strips



THIRD ROUND DRY HIP (450MM)

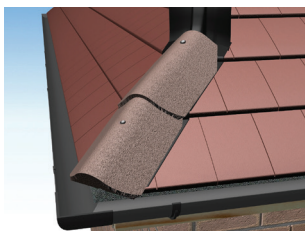
Cover 6m of hip

AVAILABLE FOR:

Gemini, Minislate, SL8, PAN8, V2, Centurion and Senator

COMPONENTS:

- Carrier Tray
- 80mm stainless steel screw and washer and seal



GEMINI® BONNET HIP (1 PER COURSE)

SUITABLE FOR:

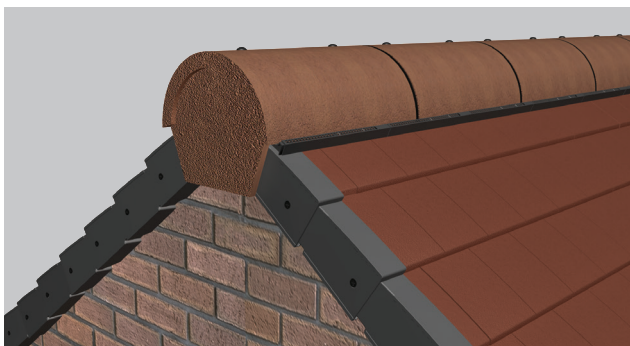
Roof pitches 22.5°- 55°

SUITABLE FOR USE WITH:

Gemini and Minislate

COMPONENTS:

- 80mm Drive Screw, Washer and Seal (1 per bonnet hip tile)



GEMINI® AND MINISLATE® VERGE PACKS

- Cover 15 courses (RH or LH pack)
- BS8612 compliant

SUITABLE FOR USE WITH:
Gemini and Minislate

COMPONENTS:

- Universal Batten End Brackets
- Batten End Bracket nails
- Foam Stop End Block
- Dry Fix Verge Units
- Colour coded screws



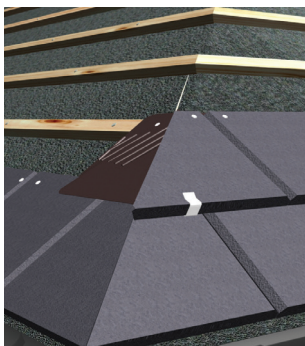
SL8 VERGE PACK

- Cover 15 courses (RH or LH pack)
- BS8612 compliant

SUITABLE FOR USE WITH:
SL8

COMPONENTS:

- Verge Continuation Pack (3.2 - 3.45 linear metres - left and right hand packs available):
 - Verge Continuation Units (Handed)
 - Perimeter Clips
 - 20 no. 20mm Nails
- Verge Starter / Ridge End Pack:
 - Starter Unit Left Hand
 - Starter Unit Right Hand
 - Top Foam Filler
 - 20mm Nails



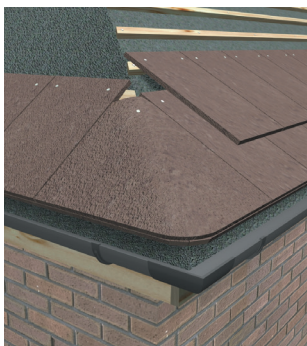
MITRED HIP PACKS

- Minimum Pitch 22.5°
- Cover 10 courses

SUITABLE FOR USE WITH:
Gemini and Minislate

COMPONENTS:

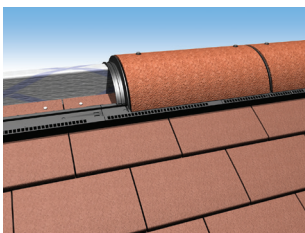
- Hip soaker:
 - For hips 90° on plan
 - 22.5°-44.5°
 - 45°-70°
 - For hips 135° on plan
 - 22.5°-44.5°
- Perimeter clips



HARDROW® SLATES HIP
(1 PER COURSE)

SUITABLE FOR USE WITH:
Hardrow Slates

OPTIONS:
Standard hip slate



GEMINI, MINISLATE, HARDROW AND SL8 VENTED RIDGE PACK
(6M)

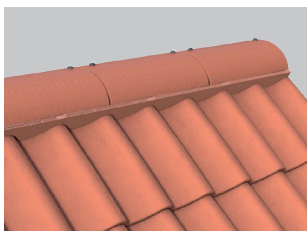
- Pitch Range 41° - 55°
- Min pitch 17.5° - 55°
- Free vent area: 5000mm²/m
- Cover 6 metres of ridge
(Rafters at 600mm centres)
- BS8612 compliant

SUITABLE FOR USE WITH:

Gemini, Minislate, SL8, and Hardrow

COMPONENTS:

- Top filler units
- 80mm Drive Screws, Washers and Seals
- Ridge to Ridge seals
- Ridge batten brackets



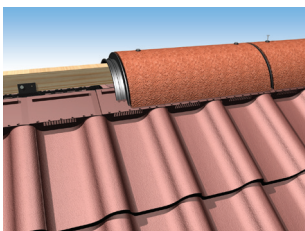
PAN8 VENTED RIDGE PACK
(6M)

- Pitch Range 25° - 55°
- Free vent area: 5000mm²/m
- Cover 6 metres of ridge
(Rafters at 600mm centres)

SUITABLE FOR USE WITH:
PAN8

COMPONENTS:

- Ridge Batten Brackets
- 25mm Galvanised Nails
- Top Filler PAN8
- 80mm Drive Screws
- Ridge Seals



CENTURION, V2 AND SENATOR VENTED RIDGE PACK
(3M)

- Pitch Range 12.5° - 44° (Centurion and Senator) 22.5° - 55° (V2)
- Max. pitch 45° (30° for V2)
- Free vent area: 5000mm²/m
- Cover 3 metres of ridge
(Rafters at 600mm centres)

SUITABLE FOR USE WITH:

Centurion, V2 and Senator

COMPONENTS:

- Top filler units
- 80mm Drive Screws, Washers and Seals
- Ridge to Ridge seals
- Ridge batten brackets



VENTED 1/2 ROUND MONORIDGE PACK

Ventilated and non-ventilated mono pitch ridgeboard construction

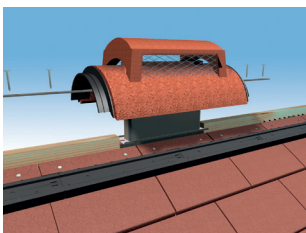
AVAILABLE FOR:

Gemini, Minislate, SL8 and PAN8
(Cover 6m of ridge)

Centurion, V2, Senator and Hardrow
(Cover 3m of ridge)

COMPONENTS:

- Ridge to Ridge seals
- 80mm Drive Screws, Washers and Seals
- Ridge level felt spacers
- Top filler units



GAS VENT RIDGE TERMINAL KIT

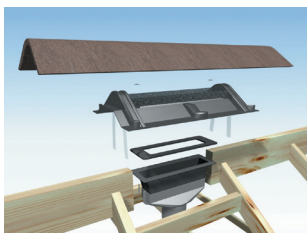
SUITABLE FOR USE WITH:

Gemini, Minislate Hardrow Slates*, Centurion, V2, Senator, SL8 and PAN8

COMPONENTS:

- Top fillers
- R-type adaptor
- Gas vent extension box (duo pitch)
- Vent gasket
- Fixing bolts/nuts & sealing washers

*For Hardrow Slates the Gas Vent Ridge Terminal is mortar bedded



AIR VENT RIDGE TERMINAL OR SOIL VENT RIDGE TERMINAL KIT

Free vent area: 7850mm²/m
(12000mm²/m without R-type adaptor)

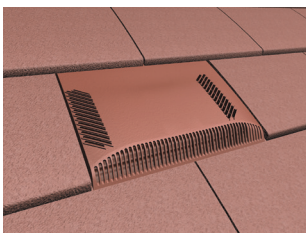
SUITABLE FOR USE WITH:

Gemini, Minislate, Hardrow Slates, Centurion, Senator, V2, SL8 and PAN8

COMPONENTS:

(For soil vent kit)

- 500mm x 100mm Flexi pipe and fixing clip
- R-type adaptor
- Extension box (duo pitch)
- Vent gasket



AIR VENT OR SOIL VENT TILE AND SLATE KITS*

AVAILABLE FOR:

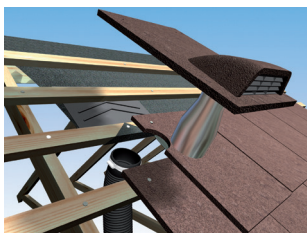
- Gemini: min. pitch 22.5°
- Minislate: min. pitch 22.5°
- V2: min. pitch 17.5°
- SL8: min. pitch 20°
- PAN8: min. pitch 25°

FREE VENT AREA:

- Gemini: 7860mm²
- Minislate: 7860mm²
- V2: min: 9875mm²
- SL8: 12275mm²
- PAN8: 12275mm²

COMPONENTS:

- Felt weir
- 100mm & 160mm flexi pipe (Soil Vent packs only)



AIR VENT OR SOIL VENT TILE AND SLATE KITS

SUITABLE FOR USE WITH:

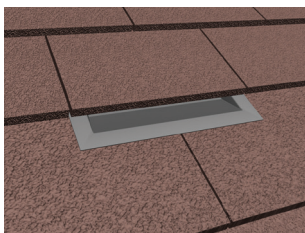
- Hardrow Slates: min. pitch 17.5°
- Centurion: min. pitch 20°
- Senator: min. pitch 22.5°

FREE VENT AREA:

- Hardrow Slates: 4426mm²
- Centurion: 2400mm²
- Senator: 2400mm²

COMPONENTS:

- Vent tile felt spacer (Air vent kit)
- Felt weir (Soil vent kit)
- 500mm x 100mm flexi pipe and fixing clip (Soil vent kit)
- Pre-cut Hardrow Slates (Hardrow kit only)



HARDROW® SLATES AIR VENT OR SOIL VENT KITS

SUITABLE FOR USE WITH:

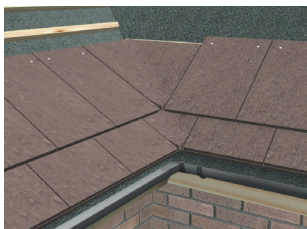
Hardrow Slates
(Minimum pitch 20°)

Free vent area: 4,426mm²/m

COMPONENTS:

- Lo-vent terminal
- Felt weir
- 500mm x 100mm flexi pipe and fixing clip (Soil vent kit)

Note: Cut slates are not supplied.



HARDROW® SLATES PURPOSE MADE VALLEY

SUITABLE FOR USE WITH:

Hardrow Slates
(Minimum pitch 25°)

OPTIONS:

Standard valley slate

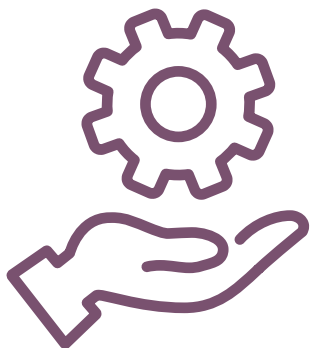


Working procedures, safety and general precautions

Tiles should be fixed in accordance with the current British Standard BS 5534. All leadwork should comply with Lead Sheet Training Academy details. Forticrete recommend that fixers of all slates and tiles, comply with BS 8000:Part 6, with regard to workmanship and fragility of the product. 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.



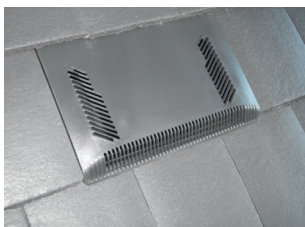
Technical services

Visit www.forticrete.co.uk for information about our technical solutions and services for successful roof detailing.

- Bespoke fixing specifications
- Technical support and advice
- Ventilation advice
- Product integrity guarantees
- Training
- CPD's



Tile clips



Air Vent or Soil Vent Tile



Eaves Vent Packs



Gemini®

Traditional Sandfaced Ember Blend on Broadbridge Park Care Home, Broadbridge Heath, Horsham

Dry fixed detailing

Providing mortar free mechanically fixed solutions

- Dry ridge (ventilated or unventilated)
- Dry verge systems
- Dry hip systems

Ventilation products

Providing positive roof ventilation

- Over fascia eaves vent packs
- Over fascia eaves vent extension trays
- Purpose made ventilation tiles
- Purpose made ridge air, soil, and gas vent terminals



Forticrete

ORDER YOUR FORTICRETE ROOF TILES AND SLATES FROM:

Approved stockist

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www.forticrete.co.uk



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