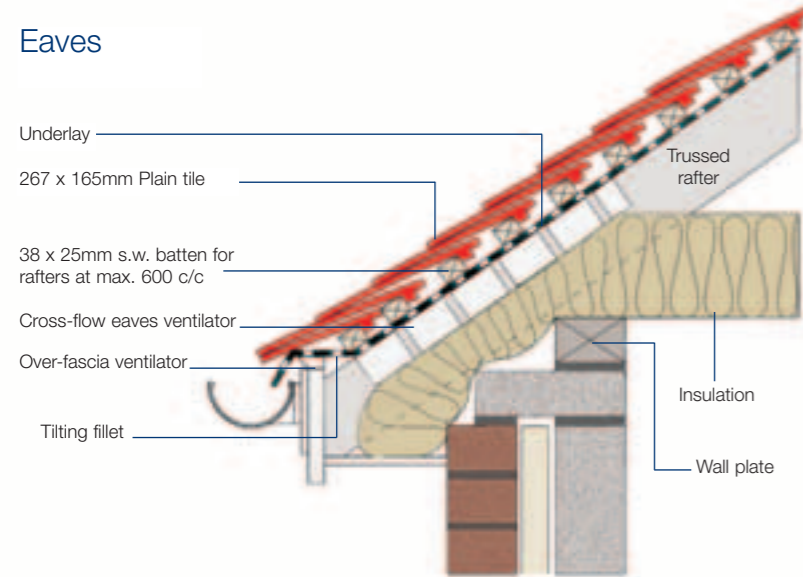


Typical Details

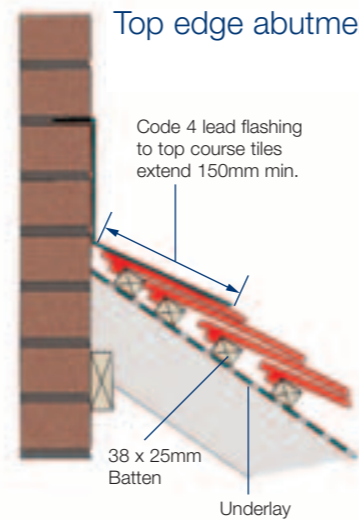


Plain Tile

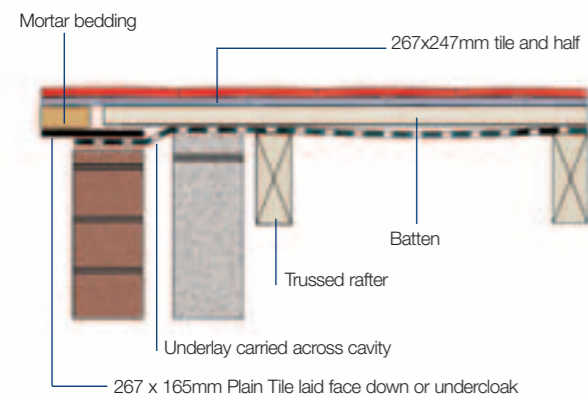
Eaves



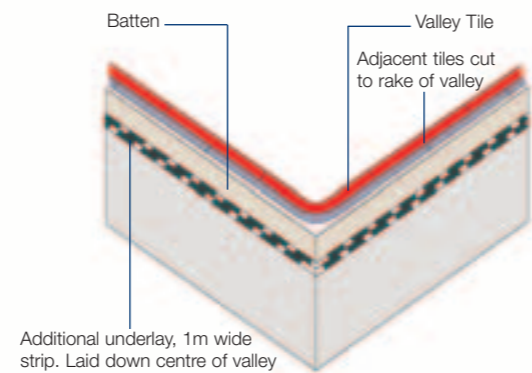
Top edge abutment



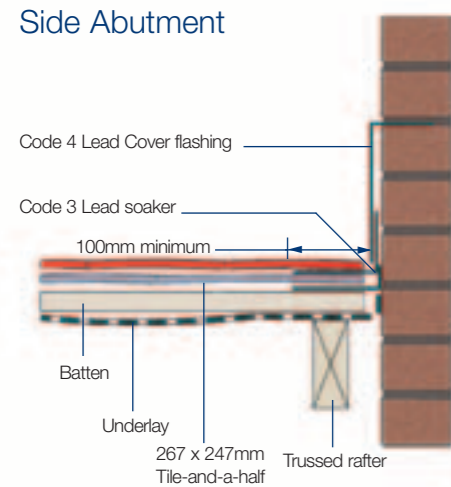
Verge



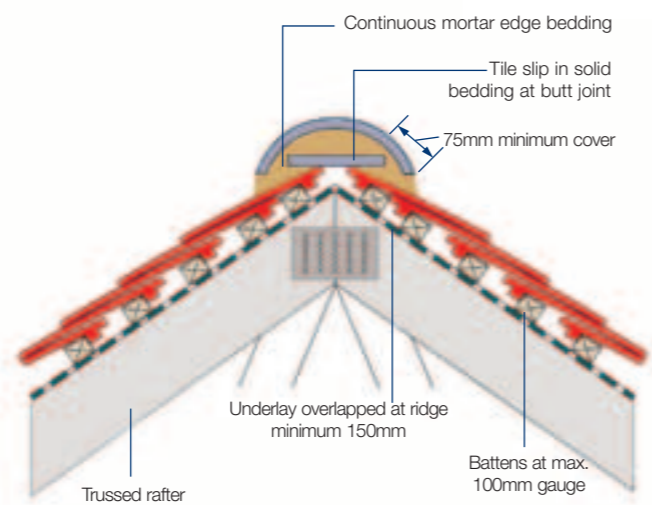
Tiled Valley



Side Abutment



Ridge (Bedded)

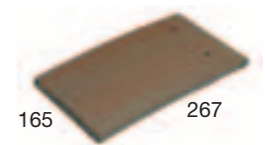


The Russell Plain Tile has the appearance of a traditional clay tile but the strength and economy of a concrete tile. It is available in ten smooth finish colours and four Heritage Range colours. A two tone granular option is also available.

Features and Benefits

- Traditional size cross cambered double lap tile.
- Allows for flexibility in roof design.
- Provide the appearance of clay tiles.
- Ideal for both pitched and vertical roofing

Tile Specification



The vertical surface is to be covered with Russell Plain Tiles laid to a maximum gauge of 115mm. Each tile must be twice nailed using 38 x 2.65mm aluminium alloy nails as per fixing specification.



Plain Tile

Technical Data

Technical Data	
Compliance	Manufactured in accordance with the requirements of BS EN 490 "Concrete Roof Tiles and Fittings-Product Specifications" and BS EN 491 "Concrete Roof Tiles and Fittings-Test Methods"
Manufacture	Produced by high pressure extrusion and compaction
Fire	Non-combustible when tested to BS476: Part 3:1975 (spread of flame and fire penetration). SAA Classification
Guarantee	Tiles are guaranteed for a period of 60 years from the date of supply (subject to the normal terms of guarantee)
Maximum Pitch	90° (Subject to fixing specification)
Minimum Pitch	35°
Headlap (minimum)	65mm
Gauge (maximum)	100mm
Covering Width	165mm
Covering Capacity (net)	100mm Gauge - 60 Tiles/m ² 95mm Gauge - 64 Tiles/m ² 90mm Gauge - 68 Tiles/m ²
Weight of Tiling	100mm Gauge - 78kg/m ² (approx) 95mm Gauge - 83kg/m ² (approx) 90mm Gauge - 88kg/m ² (approx)
Weight per 1000 Tiles	1.3 tonnes (approx)
Batten Size - minimum (for rafters not exceeding 600mm c/c nailed to BS5534)	38x25mm
Battens required	100mm Gauge - 10.0m per m ² 95mm Gauge - 10.5m per m ² 90mm Gauge - 11.3m per m ²
Top Course	Single course of eaves/tops tiles
Ridge	Half Round Feature Ridge Tiles or Finials, either mortar bedded or Dry Ridge System (ventilated or unventilated) Security Ridge Gas vent Ridge Terminal Soil/Vent Pipe Ridge Terminal
Eave	Eaves/tops tile undercourse
Verge	Tile and a half in alternate courses or cloak verge in alternate courses
Undercloak	150mm wide fibre reinforced cement strip or plain tile to provide 38-50mm overhang
Hips	Bonnet Hip Tiles (35° -50°), Arris Hip Tiles (35° -40°) or Third Round Ridge Tiles
Valleys	Purpose made Valley Tiles (35° -50°) or Open Metal Valley or GRP
Abutments	Cover flashing with Lead Soaker or Russell Abutment vent system
Nails for Tiles	38mm x 2.65mm Aluminium Alloy Nails

NO. OF TILES AT 100mm GAUGE			
Metres (sq)	No. of Tiles	Metres (sq)	No. of Tiles
1	60	23	1,380
2	120	24	1,440
3	180	25	1,500
4	240	30	1,800
5	300	40	2,400
6	360	50	3,000
7	420	60	3,600
8	480	70	4,200
9	540	80	4,800
10	600	90	5,400
11	660	100	6,000
12	720	200	12,000
13	780	300	18,000
14	840	400	24,000
15	900	500	30,000
16	960	600	36,000
17	1,020	700	42,000
18	1,080	800	48,000
19	1,140	900	54,000
20	1,200	1000	60,000
22	1,320		

All figures are net - wastage to be added

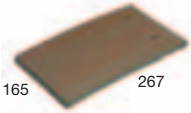


Fixing Note: We recommend that our customers complete a fixing specification form for the roof. The Russell service is free of charge and provides specification that complies with BS.5534. It ensures that all topographical features are accounted for and removes the potential for roof failure. For information go to: www.cemex.co.uk and click on Russell. Please see additional literature for corresponding handfittings and DryFix

Recommended Specifications	
Underlay	<ul style="list-style-type: none"> Roofing underlay to BS.5534 to be laid over rafters or rigid sarking lapped horizontally and vertically to manufacturers recommendation and to be carried well into the gutters and secured with clout nails Water traps behind fascia should be avoided by provision of a proprietary underlay support or continuous tilting fillet
Battens	<ul style="list-style-type: none"> Approved quality softwood tiling battens to be laid maximum gauge 318mm secured to rafters with galvanised wire nails To be at least 1.2m in length and fixed at each rafter with minimum one nail To be butt jointed over rafters No more than one batten in four to be jointed over each rafter All ends must be sawn
Eaves	Eaves Tiles to be laid broken bonded under the first course of tiling to form a double course. All tiles are to be twice nailed.
Abutments	Where tiling meets an abutment, tile and half tile are to be laid to alternate courses. Lead soakers provided by the plumber are to be fitted to each course in accordance with L.S.A. guidelines
Valleys	<ul style="list-style-type: none"> To be formed with a lead lining fully supported by valley boards with adjacent Tiling to be cut neatly and bedded onto undercloak leaving a clear channel of not less than 150mm in accordance with L.S.A. guidelines
Mortar	All bedding mortar is to consist of 3 parts sharp sand to 1 part Portland Cement or any mix that meets BS. 5534 and should be struck off to give a smooth face.
Hips	<ul style="list-style-type: none"> Hips are to be covered with Russell Bonnet or Arris Hip Tiles. Nailed with one aluminium alloy nail and bedded onto the hip tile below and neatly pointed. Hips are to be covered with Russell Third Round Ridge Tiles. Egde bed onto the tiles with solid bedding at butt joints. A galvanised hip iron is to be fitted at the foot of each hip as support.
Verges	<ul style="list-style-type: none"> Verges are to be formed with full tiles and tile and a half in alternate courses, and bedded onto a 150mm wide fibre reinforced strip allowing an overhang of approximately 38-50mm over the brickwork gable or bargeboard. Cloak Verge Plain Tiles left hand and right hand twice nailed fixed to each alternate course. Overhang maximum 50mm over the brickwork gable or bargeboard. Where the distance from the inside face of the unit to the wall exceeds 12mm then a soffit closure strip is required to prevent the ingress of birds and vermin.
Ridge	<ul style="list-style-type: none"> The ridge is to be covered with Russell Half Round Ridge Tiles Edge bedded onto the tiles with solid bedding at butt joints, 75mm min. cover over tops course. Provision should be made for mechanical fixing of two security ridge tiles, at each gable and party wall or abutment. Dry Ridge - Russell Ventilated and Unventilated* fitted in accordance with instructions. The Russell Dry Ventilated Ridge System provides the free area equivalent of a continuous 5mm gap to meet the requirements of the Building Regulations BS 5250

Vertical Cladding

Technical Data

Technical Information	
Specification	Plain 
Size of the tile (overall)	267x165mm
Headlap (minimum)	35mm
Gauge (maximum)	115mm
Covering Width	165mm
Covering Capacity (net)	115mm Gauge - 53 Tiles/m ² 110mm Gauge - 56 Tiles/m ²
Weight of Tiling (approx)	115mm Gauge - 69kg/m ² 110mm Gauge - 73kg/m ²
Batten Size - minimum (for supports not exceeding 600mm c/c nailed to BS 5534)	38x25mm
Top Course	Single Course of eaves/tops tiles 200x165mm
Eave Course	Eaves/tops tile undercourse 200x165mm
Angles	External 90° (handed) External 135° (handed)
Fixing	Each tile should be twice nailed Fixing should conform to BS 5534

Recommended Specifications

Recommended Specifications	
Specification	Plain 
Tiles	The vertical surface is to be covered with Russell Plain Tiles laid to a maximum gauge of 115mm. Each tile must be twice nailed using 38 x 2.65mm aluminium alloy nails.
Underlay	Approved underlay to be fixed under battens at a minimum lap of 75mm horizontally and 150mm vertically secured with clout nails.
Battens	Approved quality softwood tiling battens (size dependent on support spacings to be sawn and butt jointed over centre of cladding).
Top Courses	Top Tiles each twice nailed with Lead Flashing dressed down over the course for a minimum of 100mm
Eaves/Bottom Edge	Eaves Tiles are to be laid broken bonded under the first course to form a double course. All tiles to be twice nailed.
Abutments	Where tiling meets an abutment, tile and a half tiles are to be laid to alternate courses. Lead soakers provided by the plumber are to be fitted to each course.
Angles	Purpose made 90° or 135° external angel tiles are to fixed alternate hand to each course to provide broken bond to the main tiling.

CEMEX Roof Tiles

Nicolson Way, Wellington Road, Burton-on-Trent, Staffordshire, DE14 2AW
Tel: 01283 517070 Fax: 01283 516290

Top Course

Code 4 lead flashing at head
min. 150mm over tile

Eave/Tops course tile twice nailed

267 x 165mm tiles twice nailed

Approved underlay min 25mm thick Counter battens fixed at max. 600c/c with appropriate fixings

38 x 25mm tiling battens at max. 115mm gauge

200mm eave/tops course tile twice nailed

Tile Soffit

Exposed edge of tiles to be pointed in mortar

Eaves course over window head

Top course beneath window cill

Code 4 lead apron flashing fixed beneath cill dressed over top course tile (150mm min)

Top course tile twice nailed

Approved underlay

267 x 165mm tiles twice nailed

Underlay turned over lead flashing

200mm eave/tops course tile twice nailed

Code 4 lead flashing dressed over s.w. timber tiling fillet min. 65mm projection

Eaves course/ Bottom edge



NO. OF TILES AT 115mm GAUGE

Metres (sq)	No. of Tiles	Metres (sq)	No. of Tiles
2	106	23	1,219
3	159	24	1,272
4	212	25	1,325
5	265	30	1,590
6	318	40	2,120
7	371	50	2,650
8	424	60	3,180
9	477	70	3,710
10	530	80	4,240
11	583	90	4,770
12	636	100	5,300
13	689	200	10,600
14	742	300	15,900
15	795	400	21,200
16	848	500	26,500
17	901	600	31,800
18	954	700	37,100
19	1,007	800	42,400
20	1,060	900	47,700
21	1,113	1000	53,000
22	1,166		

All figures are net - wastage to be added

Technical information is based on using the Plain tile range



Colour Range Heritage Plain



Colour Range Heritage Plain



Slate Grey



Burnt Orange



Cotswold



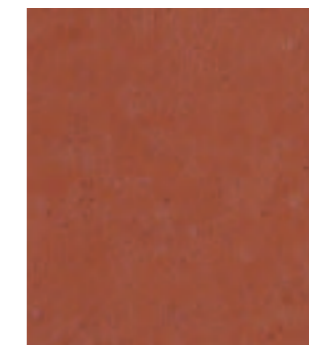
Peat Brown



Cottage Red



Antique Red



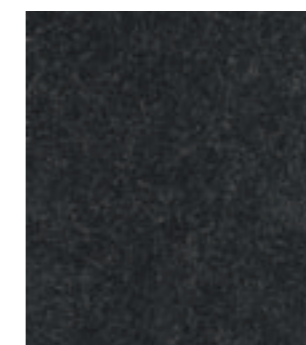
Terracotta



Rustic Peat



Antique Brown



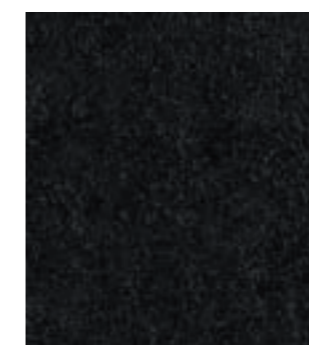
Anthracite



Tudor Black



Heritage Red



Black



Peat Red

PROFILE	Granular				Smooth					Streaky				
	AB	AR	CW	HR	AN	BK	PB	SG	TC	BO	CR	PR	RP	TB
Plain & Fittings	Stock	Stock	Stock	Stock	Non Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Argyll	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Cheviot	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Derwent	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Double Roman	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Grampian	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Highland	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Pennine	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Galloway	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Lothian	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Ridge	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Finial/Crested	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock

Stock Colour	Granular	Smooth	Streaky
Non Stock Colour	AB - Antique Brown	AN - Anthracite	BO - Burnt Orange
Not available in profile	AR - Antique Red	BK - Black	CR - Cottage Red
	CW - Cotswold	PB - Peat Brown	PR - Peat Red
	HR - Heritage Red	SG - Slate Grey	RP - Rustic Peat
		TC - Terracotta	TB - Tudor Black

Photographic illustrations have been matched as closely as possible to the product, but final selection should be made from actual samples.

To achieve the best uniform appearance on the roof it is recommended to mix tiles from different pallets.

The CEMEX policy is one of continual product development and we therefore reserve the right to alter product specifications without prior notice. Information contained within this literature was current at the time of publication. Details and information relate to typical applications and designs, however variations are possible in accordance with the requirements of relevant Standards, Codes of Practice etc.