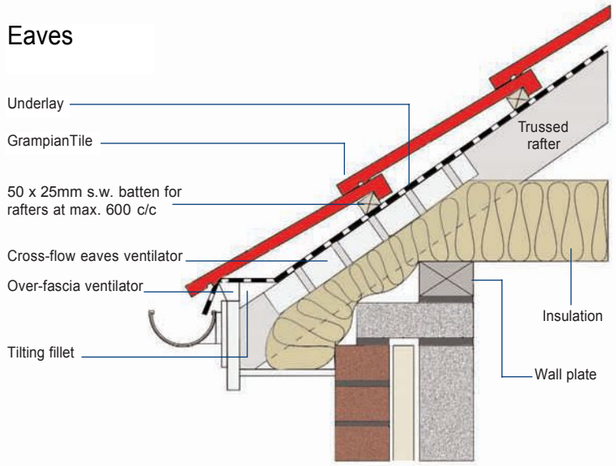
Typical Details

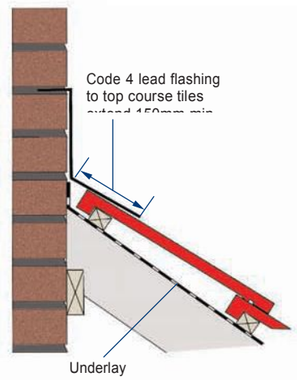
RUSSELL ROOF TILES

Grampian Tile

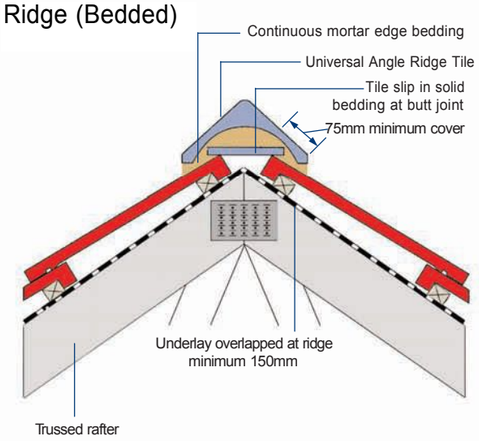
Eaves



Top edge abutment

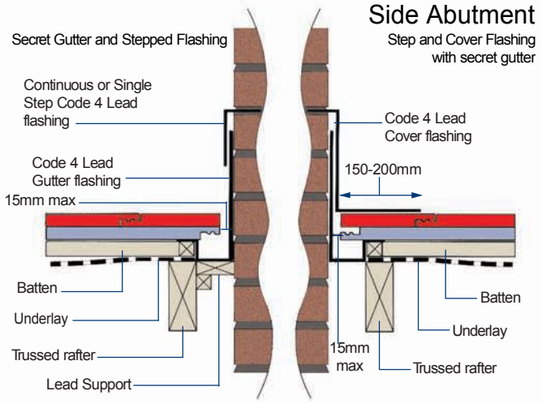


Ridge (Bedded)

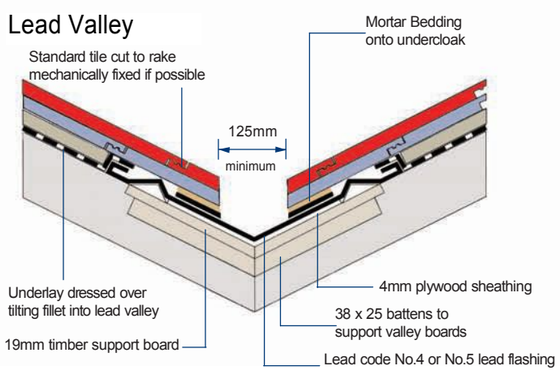


Side Abutment

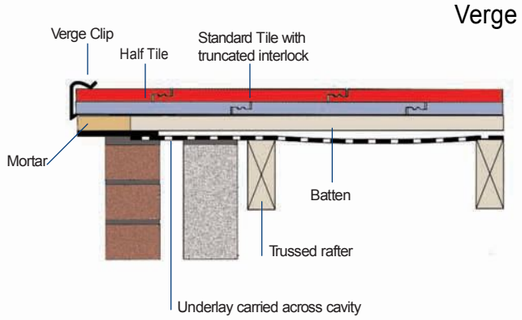
Step and Cover Flashing with secret gutter



Lead Valley



Verge

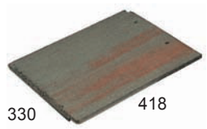


RUSSELL Roof Tiles
Nicolson Way, Wellington Road, Burton-on-Trent, Staffordshire, DE14 2AW
Tel: 01283 517070 Fax: 01283 516290

www.russellrooftiles.co.uk

A standard flat interlocking roof tile. It combines a slate type appearance and easy fixing with the security of an interlocking design and the economy of concrete.

Features and Benefits



Tried and tested standard flat interlocking lap tile.

Designed to be laid broken bond.

Tile Specification

The roof is to be covered with 418mm x 330mm Russell Grampian Tiles laid broken bonded to a gauge of 343mm with a headlap of 75mm and fixed with 50mm x 3.35mm Aluminum alloy nails. Smooth or angular ring shank as fixing specification or clipped where necessary.

Grampian 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	60^0 (Subject to fixing specification)
Minimum Pitch	17.5^0 (100mm Headlap) 22.5^0 (75mm Headlap) Smooth finish 30^0 (75mm Headlap) Granular finish
Headlap (minimum)	75mm
Gauge (maximum)	343mm
Covering Width	298mm
Covering Capacity (net)	75mm Headlap - 9.8 Tiles/m^2 100mm Headlap - 10.6 Tiles/m^2
Weight of Tiling	75mm Headlap - 51kg/m^2 (approx) 100mm Headlap - 56kg/m^2 (approx)
Weight per 1000 Tiles	5.2 tonnes (approx)
Batten Size - minimum (for rafters not exceeding 600mm c/c nailed to BS5534)	50x25mm
Battens required	75mm Headlap - 2.9m per m^2 100mm Headlap - 3.1m per m^2
Ridge	Universal Angle Ridge or Multi Ridge 110^0 capped Angle Ridge 90^0 Angle Ridge, Feature Ridge Tiles or Finials Dry Ridge System (ventilated or unventilated) Security Ridge Gas Vent Ridge Terminal Soil/Vent Pipe Ridge Terminal
Eave	Standard Tile
Verge	Half Tile in alternate courses with 150mm wide fibre reinforced cement strip to provide 38-50mm overhang or Russell Interlocking Dry Verge Units
Hips	105^0 angle, 120^0 angle, Universal Angle or Multi Ridge
Valleys	Open Metal Valley or GRP Valley Trough
Abutments	Abutment step and cover flashing with secret gutter or abutment flashing with secret gutter
Nails for Tiles	50mm x 3.35mm Aluminium Alloy Nail Smooth or anular ring shank dependant upon fixing specification

Tiles required along eaves	
Lin Metres	No. of Tiles
0.29	1
0.59	2
0.89	3
1.19	4
1.49	5
1.78	6
2.08	7
2.38	8
2.68	9
2.98	10
3.27	11
3.57	12
3.87	13
4.17	14
4.47	15
4.76	16
5.06	17
5.36	18
5.66	19
5.96	20
6.25	21
6.55	22
6.85	23
7.15	24
7.45	25
7.74	26
8.04	27
8.34	28
8.64	29
8.94	30
9.23	31
9.53	32
9.83	33
10.13	34
10.43	35
10.72	36
11.02	37
11.32	38
11.62	39
11.92	40
12.21	41
12.51	42
12.81	43
13.11	44
13.41	45
13.70	46
14.00	47
14.30	48
14.60	49
14.90	50
15.19	51
15.49	52
15.79	53
16.09	54
16.39	55
16.68	56
16.98	57
17.28	58
17.58	59
17.88	60
18.17	61
18.47	62
18.77	63
19.07	64
19.37	65
19.66	66
19.96	67
20.26	68
20.56	69
20.86	70
21.15	71
21.45	72
21.75	73
22.05	74
22.35	75

Rafter courses: 75mm Headlap	
Lin Metres	No. of Tiles
2.28	7
2.36	7
2.43	8
2.51	8
2.59	8
2.66	8
2.74	8
2.81	9
2.89	9
2.97	9
3.04	9
3.12	10
3.20	10
3.22	10
3.35	10
3.42	10
3.50	11
3.58	11
3.65	11
3.73	11
3.81	12
3.88	12
3.96	12
4.03	12
4.11	12
4.19	13
4.26	13
4.34	13
4.42	13
4.49	14
4.57	14
4.64	14
4.72	14
4.80	14
4.87	15
4.95	15
5.02	15
5.10	15
5.18	16
5.25	16
5.33	16
5.41	16
5.48	16
5.56	17
5.63	17
5.71	17
5.79	17
5.86	18
5.94	18
6.02	18
6.09	18
6.17	18
6.24	19
6.32	19
6.40	19
6.47	19
6.55	20
6.62	20
6.70	20
6.78	20
6.85	20
6.93	21
7.01	21
7.08	21
7.16	21
7.23	22
7.31	22
7.39	22
7.46	22
7.54	22
7.62	23

Rafter courses: 100mm Headlap	
Lin Metres	No. of Tiles
2.28	8
2.36	8
2.43	8
2.51	8
2.59	9
2.66	9
2.74	9
2.81	9
2.89	10
2.97	10
3.04	10
3.12	10
3.20	11
3.22	11
3.35	11
3.42	11
3.50	12
3.58	12
3.65	12
3.73	12
3.81	12
3.88	13
3.96	13
4.03	13
4.11	13
4.19	14
4.26	14
4.34	14
4.42	14
4.49	15
4.57	15
4.64	15
4.72	15
4.80	16
4.87	16
4.95	16
5.02	16
5.10	17
5.18	17
5.25	17
5.33	17
5.41	18
5.48	18
5.56	18
5.63	18
5.71	18
5.79	19
5.86	19
5.94	19
6.02	19
6.09	20
6.17	20
6.24	20
6.32	20
6.40	21
6.47	21
6.55	21
6.62	21
6.70	22
6.78	22
6.85	22
6.93	22
7.01	23
7.08	23
7.16	23
7.23	23
7.31	23
7.39	24
7.46	24
7.54	24
7.62	24

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	● 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 avoided by provision of a proprietary underlay support or continuous tilting fillet
Battens	● 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	● Standard tiles to be laid broken bond along eaves course ● Ensure fascia board height or tilting fillet is correct so the eaves course is in the same plane as main roof and discharges into centre of gutter (approx. 38-50mm) ● All tiles to be mechanically fixed
Abutments	● Where tiling meets a top abutment tiles should be: i. Laid as close to the wall as possible ii. Fixed with Russell Abutment Vent System and code 4 lead flashing in accordance with L.S.A. guidelines
Valleys	● To be formed with a lead lining or GRP trough fully supported by valley boards ● Adjacent tiling to be cut neatly with bedded onto undercloak leaving a clear channel of not less than 150mm in accordance with L.S.A. guidelines
Mortar	● Where used it should consist of 3 parts sharp sand to 1 part Portland cement or any mix that meets BS.5534 (clause 4.15)
Hips	● To be covered with 120^o Angle Hip Tiles similar to main roof tiles ● Edge bed onto tiles with solid bedding at butt joints ● Galvanised hip iron to be fitted at foot of each hip as support
Verges	● To be formed with full and half tiles (mock-bond - refer to setting out drawing), bedded onto 150mm wide fibre reinforced strips allowing overhang of approx 38-50mm over brickwork gable/bargeboard ● To be formed with Russell Interlocking Dry Verge units, fitted in accordance with instructions
Ridge	● To be covered with Russell Universal Angle 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, party wall or abutment. ● Dry Ridge - Russell Ventilated and Unventilated fitted in accordance with instructions. ● The Dry Ventilated Ridge System provides the free area equivalent of a continuous 5mm gap to meet the requirements of the Building Regulations and BS 5250