### **Typical Details**









#### RUSSELL Roof Tiles

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# Lothian Tile

Lothian is a thin leading edge flat interlocking roof tile which has the appearance of a slate when laid broken bonded.

### Features and Benefits



The Lothian is a thin leading edge tile that has a mock joint and hidden interlock

#### **Tile Specification**

The roof is to be covered with 418mm x 330mm Russell Lothian Tiles laid broken bonded to a maximum gauge of 318mm with a headlap of 100mm and fixed with 40mm x 3.35mm Aluminium alloy nails. Smooth or annular ring shank as fixing specification or clipped where necessary.

## Lothian Tile

# **Technical** Data

Technical Data			Tiles required along eaves	
	Manufactured in accordance with the requirements of P.C.E.M.400 "Conserve			
Compliance	Roof Tiles and Fittings-Product Specifications" and BS EN 490 Concrete	Lin Metres	No. of Tiles	
	Roof Tiles and Fittings-Test Methods"	0.29	1 2	
	Draduced by high pressure systemics and compaction	0.88	3	
Manufacture	Produced by high pressure extrusion and compaction	1.17 1.47	4 5	
Fire	Non-combustible when tested to BS476: Part 3:1975 (spread of flame and fire	1.76	6	
LIIG	penetration). SAA Classification	2.05	8	
	Tiles are guaranteed for a period of 60 years from the date of supply	2.64	9	
Guarantee	(subject to the normal terms of guarantee)	2.94	10	
		3.52	12	
Maximum Pitch	60° (Subject to fixing specification)	3.82	13	
	17.5° (100mm beadlap) pormal exposure rafter length not exceeding 8m	4.11 4.41	14	
Minimum Pitch	17.5° (125mm headlap) normal exposure, rafter length not exceeding 8m	4.70	16	
	22.5° (75mm headlap) normal exposure, rafter length not exceeding 8m	4.99	17	
	22.5° (100mm headlap) severe exposure, rafter length not exceeding 8m	5.29	18	
		5.88	20	
Headlap (minimum)	/5mm (22.5° and above)	6.17	21	
	100mm normal exposure (below 22.5°)	6.46 6.76	22	
		7.05	24	
Gauge (maximum)	343mm	7.35	25	
		7.64 7.93	26	
Covering Width	300mm	8.23	28	
	$75$ mm headlan - $9.7/m^2$	8.52	29	
Covering Capacity (net)	100mm headlap - $10.5/m^2$	8.82 9.11	30	
cortaining cupatity (liet)	125mm headlap - 11.4/m <sup>2</sup>	9.40	32	
		9.70	33	
	75mm headlap 45Kg/m <sup>2</sup>	9.99	34 35	
Weight of Tiling	100mm headlap 48Kg/m <sup>2</sup>	10.58	36	
	125mm headlap 52Kg/m <sup>-</sup>	10.87	37	
Weight per 1000 Tiles	4.6 tonnes (approx)	11.17 11.46	38	
Tograpor 1000 Tiles		11.76	40	
Batten Size - minimum		12.05	41	
(for rafters not exceeding	50x25mm	12.34	42	
600mm c/c nailed to BS5534)		12.93	44	
Battens required	100mm Headlap - 3.1m per m <sup>2</sup>	13.23	45	
		13.52 13.81	46 47	
	Universal Angle Ridge or Multi Ridge	14.11	48	
	110° capped Angle Ridge	14.40	49	
Ridge	90° Angle Ridge, Feature Ridge Tiles or Finials	14.70	50	
Nuge	Security Ridge	15.28	52	
	Gas Vent Ridge Terminal	15.58	53	
	Soil/Vent Pipe Ridge Terminal	16.17	55	
		16.46	56	
Eave	Standard Lile	16.75	57	
	Half tile in alternate courses with 150mm wide fibre reinforced coment strip to	17.34	59	
Verae	provide 38-50mm overhang	17.64	60	
verge	Or	17.93	61	
	Russell Thin Leading Edge Dry Verge Unit	18.52	63	
1.12		18,81	64	
Hips	105° angle, 120° angle, Universal Angle or Multi Ridge	19.11	65	
Vallevs	Open Metal Valley or GRP Valley Trough	19.40	67	
(anoyo		19.99	68	
Abutments	Abutment step and cover flashing with secret gutter or abutment flashing	20.28	69	
Abdimonto	with secret gutter	20.58	70	
	Aller Maile	21.16	72	
Nails for Tiles	40mm x 3.35mm Aluminium Alloy Nails	21.46	73	
	omoun or annular my shark dependent upon hiting specification	∠1.76 22.05	74	

Recommended Specifications					
Underlay	<ul> <li>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</li> <li>Water traps behind fascia should be avoided by provision of a proprietary underlay support or continuous tilting fillet</li> </ul>				
Battens	<ul> <li>Approved quality softwood tiling battens to be laid at maximum gauge 318mm secured to rafters with galvanised wire nails</li> <li>To be at least 1.2m in length and fixed at each rafter with minimum one nail</li> <li>To be butt jointed over rafters</li> <li>No more than one batten in four to be jointed over each rafter</li> <li>All ends must be sawn</li> </ul>				
Eaves	<ul> <li>Standard tiles to be laid broken bond along eaves course</li> <li>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)</li> <li>All tiles to be mechanically fixed</li> </ul>				
Abutments	<ul> <li>Where tiling meets a top abutment tiles should be:</li> <li>i. Laid as close to the wall as possible</li> <li>ii. Fixed with Russell Abutment Vent System and code</li> <li>4 lead flashing in accordance with L.S.A. guidelines</li> </ul>				
Valleys	<ul> <li>To be formed with a lead lining or GRP trough fully supported by valley boards</li> <li>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</li> </ul>				
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	<ul> <li>To be covered with 120° Angle Hip Tiles</li> <li>Edge bed onto tiles with solid bedding at butt joints</li> <li>Galvanised hip iron to be fitted at foot of each hip as support</li> <li>Dry Hip system fitted with purpose made Block End Hip Tiles</li> </ul>				
Verges	<ul> <li>¼ bond can only usually be achieved by combining ¾ tiles, ½ tiles and full tiles and full tiles. Adjustments to the under cloak to up and the "shunt" in the tile width should be considered on the verge to verge roof areas.</li> </ul>				
Ridge	<ul> <li>To be covered with Russell Universal Angle Ridge Tiles Edge bedded onto the tiles with solid bedding at butt joints. 100mm min. cover over tops course. Provision should be made for mechanical fixing of two security ridge tiles, at each gable, party wall or abutment.</li> <li>Dry Ridge - Russell Ventilated and Unventilated fitted in accordance with instructions.</li> <li>The Russell 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</li> </ul>				