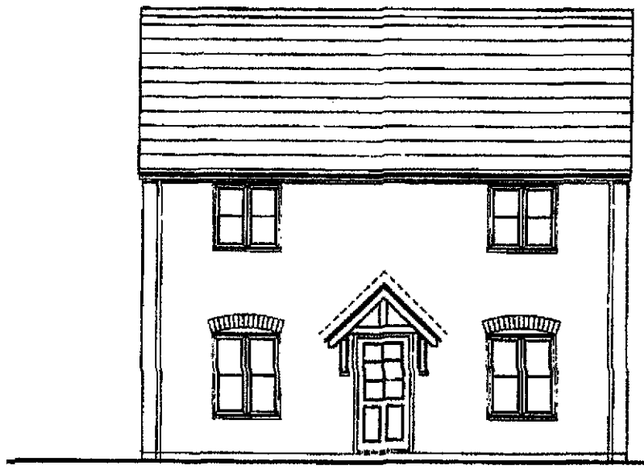
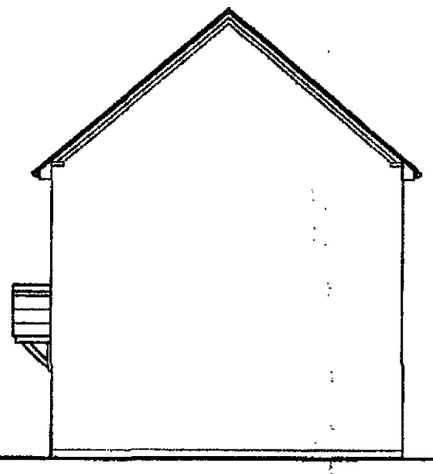
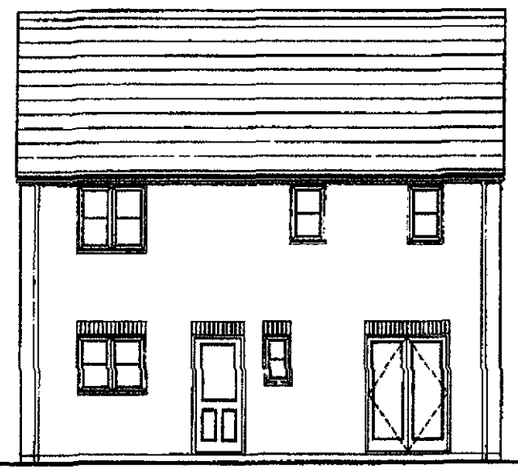


FRONT ELEVATION

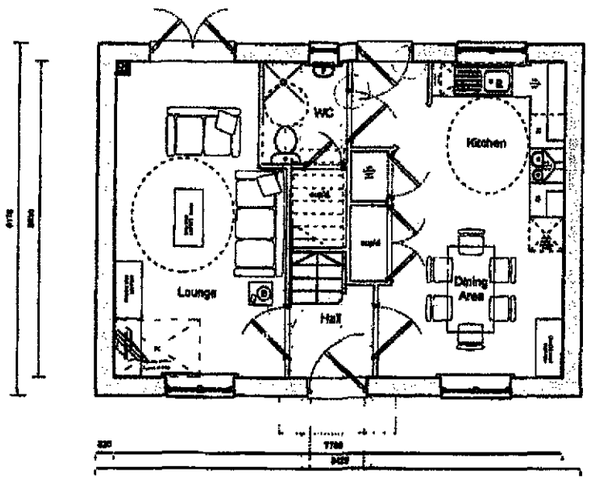


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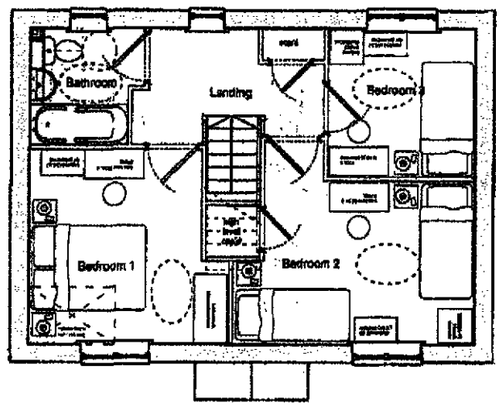


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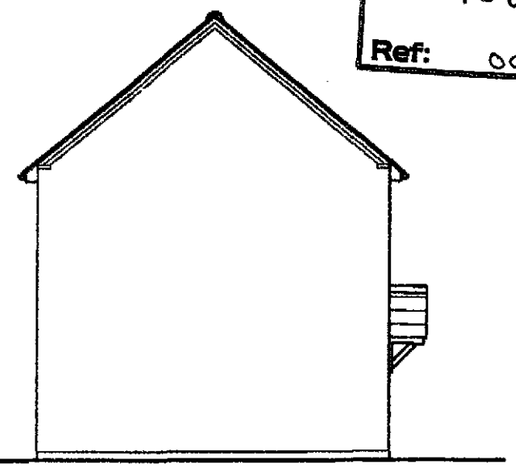
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Planning & Development
12 JAN 2011
Ref: 0022-11



GROUND FLOOR PLAN



FIRST FLOOR PLAN



SIDE ELEVATION

Revision	Date	
B	10/10/08	Stone corbels removed.
A	28/08/08	Internal layout amended for LTH.

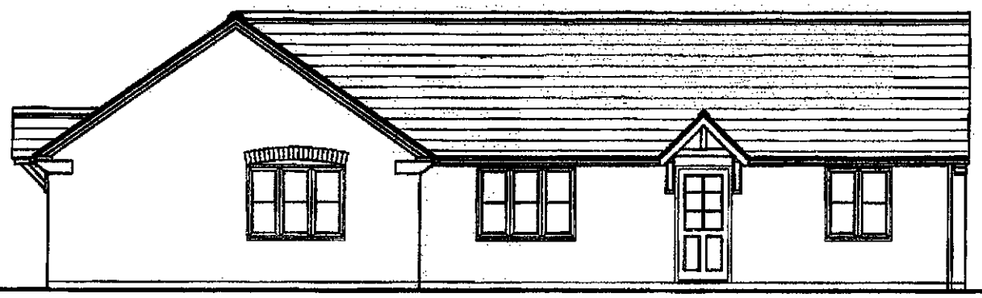
Project
T.D.L House type R2318
3 Bed house
928 sqft

Drawing
Planning drawing
Plans & Elevations

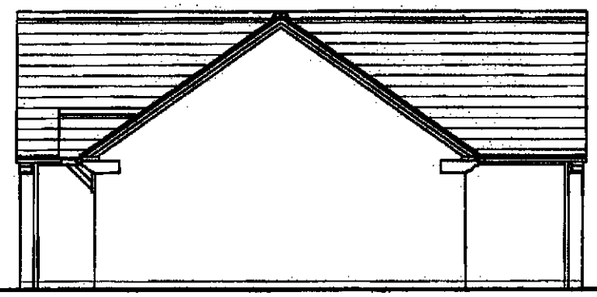
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Larkfleet Homes
Larkfleet House, Falcon Way, Bourne, Lincs.
PE10 0FF p: 01778 391560 f: 01778 391579

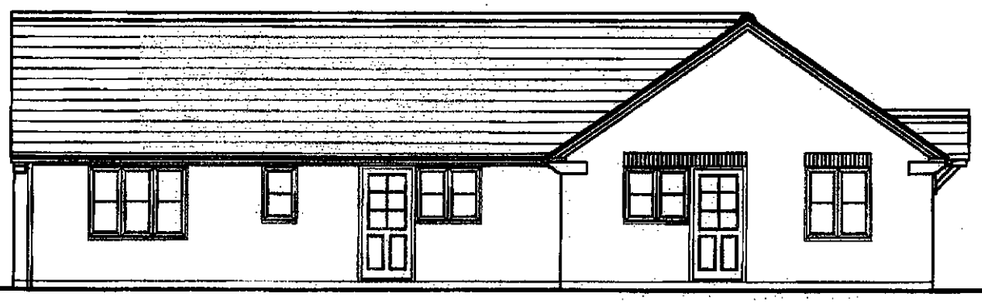
Date	Scale	Job No	Drawing No
05/03/08	1:100	R2318	01B



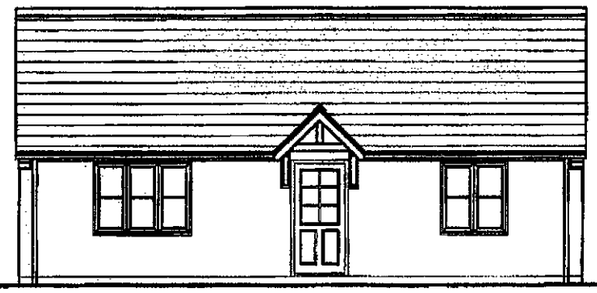
FRONT ELEVATION



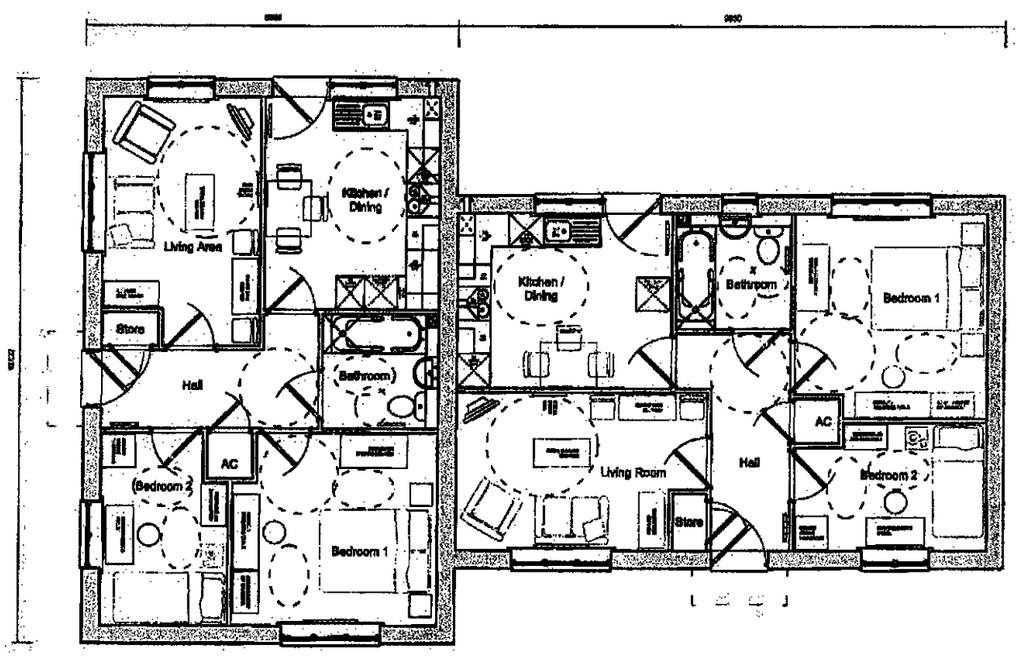
SIDE ELEVATION



REAR ELEVATION



SIDE ELEVATION



GROUND FLOOR PLAN
R1202 (as hand)

GROUND FLOOR PLAN
R1203 (as hand)

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Ref: 0022-11

Revision	Date	
A	14/08/08	Bathroom layout amended for LTH.

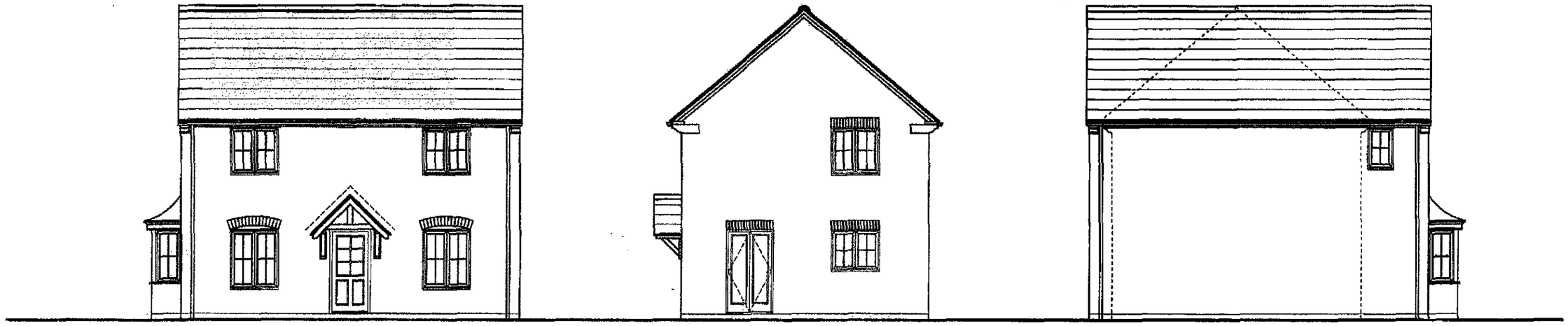
Project: House type R1202 & R1203
2 Bed Bungalow
623 sqft (SDS = 619 sqft)

Drawing: Planning drawing
Plans & Elevations

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Larkfleet Homes
Larkfleet House, Falcon Way, Bourne, Lincs.
PE10 0FF p: 01778 391550 f: 01778 391579

Date	Scale	Job No	Drawing No
07/02/08	1:100	R1202+3	01A

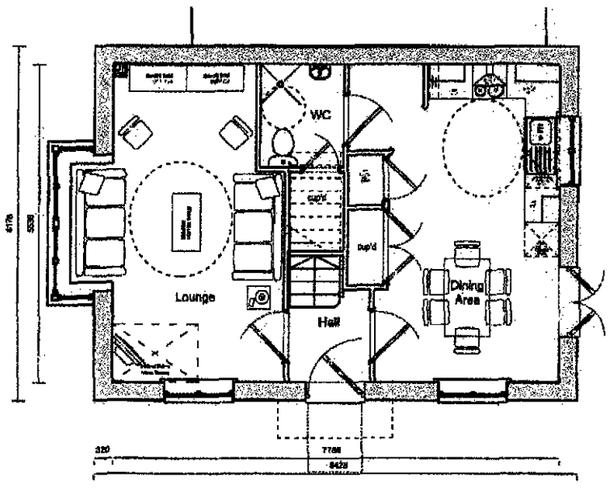


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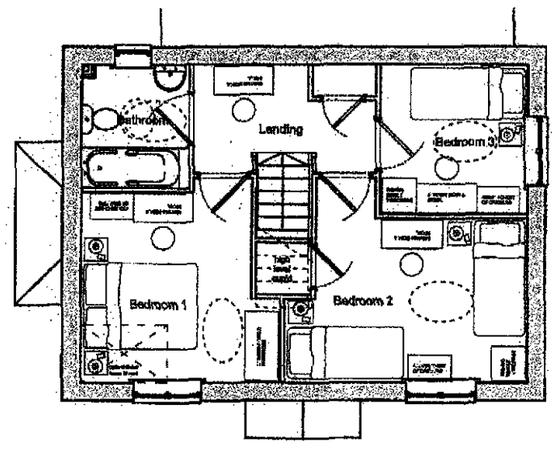
SIDE ELEVATION

REAR ELEVATION

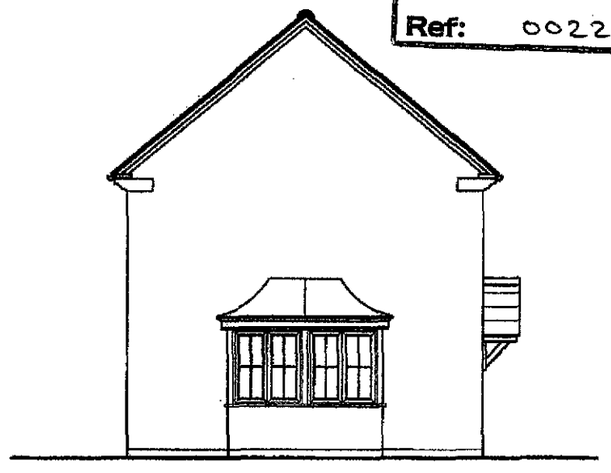
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12 JAN 2011
Ref: 0022-11



GROUND FLOOR PLAN



FIRST FLOOR PLAN



SIDE ELEVATION

Revision	Date	

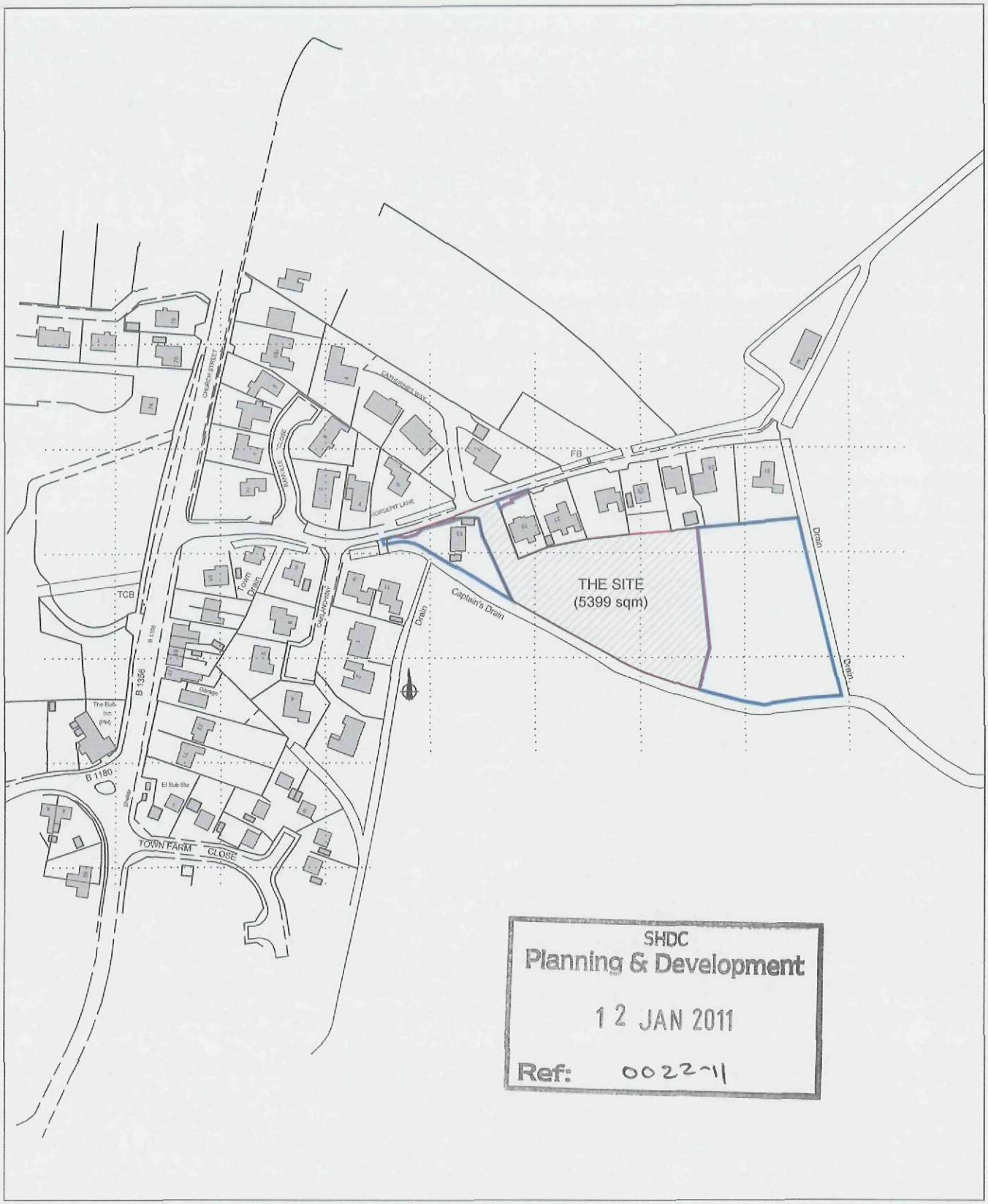
Project
House type R2317v2
3 Bed house
945 sqft

Drawing
Planning drawing
Plans & Elevations

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Larkfleet Homes
Larkfleet House, Falcon Way, Bourne, Lincs.
PE10 0FF p: 01778 391550 f: 01778 391579

Date	Scale	Job No	Drawing No
14/05/09	1:100	R2317v2	01



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Planning & Development
12 JAN 2011
Ref: 0022-11

Louise Michele Cooper - Architect
11 Main Street
Lyddington
Rutland
LE15 9LR

Tel/Fax 01572 820185
Mobile 07985 943743

Revisions:

Client: Larkfleet Homes

Title: Land off Horsepit Lane, Pinchbeck, Lincs.

Drawing: Location Plan

Scales:	Sheet Size:	Date:	Drawn:
1:2500	A4	07/10/10	LMC

Drawing Number: 193-SK-01

Rev:

Do not scale off or measure from this drawing.
All discrepancies should be reported to the architects. This drawing should be read in conjunction with the specification and standard details.



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Ref: 0022-11

HOUSE TYPE SCHEDULE	
1202 - 2b3p bungalow	2
1203 - 2b3p bungalow	4
R2317 - 3b5p house	2
R2318 - 3b5p house	6
Total	14

Revisions:

Louise Michele Cooper - Architect
11 Main Street
Lyddington
Rutland
LE15 9LR

Tel/Fax 01572 820185
Mobile 07985 943743

Client:
Larkfleet Homes

Title:
Land off Horsepit Lane,
Pinchbeck, Lincs.

Drawing:
Planning Site Layout (colour)

Scales:	Sheet Size:	Date:	Drawn:
1:500	A3	10/11/10	LMC

Drawing Number: 193-SK-03 Rev:

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Planning & Development
12 JAN 2011
Ref: 0022-11

HOUSE TYPE SCHEDULE	
1202 - 2b3p bungalow	2
1203 - 2b3p bungalow	4
R2317 - 3b5p house	2
R2318 - 3b5p house	6
Total	14

Revisions:

Louise Michele Cooper - Architect
11 Main Street
Lyddington
Rutland
LE15 9LR

Tel/Fax 01572 820185
Mobile 07985 943743

Client:
Larkfleet Homes

Title:
Land off Horsepit Lane,
Pinchbeck, Lincs.

Drawing:
Planning Site Layout

Scales:	Sheet Size:	Date:	Drawn:
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Drawing Number: 193-SK-02			Rev:

Do not scale off or measure from this drawing.
All discrepancies should be reported to the architects. This drawing should be read in conjunction with the specification and standard details.

peacock

LarkfleetHomes

Plot Materials Schedule - Horsepit Lane, Pinchbeck

Rev : 0 *Submitted with planning application*

Date: 03 11 10

ph	Plot	House			Garage		B Regs	Code level	MATERIAL TYPE/DETAILS/COLOUR								WINDOWS		BAYS/CHIMNEY/DORMER/PORCH				Front door		Rear Door		Side Door		Patio French Door		Garage Door		Garage Personnel Door	
	No.	Type	Hand	drwg nos	Type	Dwg No	Version	Breamm level	Facing Material	String	Window Head	Fascia	Cill	Quoins	Corbels & verges	Roof	Gutters	House Windows	Garage Windows	Bay	Chimney	Dormer	Porch	Style	Colour	Style	Colour	Style	Colour	Style	Colour	Style	Colour	Style	Colour
	1	R1202	as		☒	☒	2010		CB	☒	CRM	W	☒	☒	CRM	GSG	B	W	☒	☒	☒	☒	TB	HS4	R	HS7	W	☒	☒	☒	☒	☒	☒	☒	☒
	2	R1203	as		☒	☒	2010		CB	☒	☒	W	☒	☒	CRM	GSG	B	W	☒	☒	☒	☒	TB	HS4	G	HS7	W	☒	☒	☒	☒	☒	☒	☒	☒
	3	R1203	op		☒	☒	2010		CRM	☒	☒	W	☒	☒	CB	PT	B	W	☒	☒	☒	☒	TB	HS4	BI	HS7	W	☒	☒	☒	☒	☒	☒	☒	☒
	4	R1202	op		☒	☒	2010		CRM	☒	CB	W	☒	☒	CB	PT	B	W	☒	☒	☒	☒	TB	HS4	G	HS7	W	☒	☒	☒	☒	☒	☒	☒	☒
	5	R1203	op		☒	☒	2010		CB	☒	☒	W	☒	☒	CRM	GSG	B	W	☒	☒	☒	☒	TB	HS4	BI	HS7	W	☒	☒	☒	☒	☒	☒	☒	☒
	6	R1203	as		☒	☒	2010		CB	☒	☒	W	☒	☒	CRM	GSG	B	W	☒	☒	☒	☒	TB	HS4	R	HS7	W	☒	☒	☒	☒	☒	☒	☒	☒
	7	R2317	op		☒	☒	2010		CRM	☒	CB	W	☒	☒	CB	PT	B	W	☒	☒	☒	☒	TB	HS4	G	☒	☒	☒	☒	F	W	☒	☒	☒	☒
	8	R2318	as		☒	☒	2010		CB	☒	CRM	W	☒	☒	CRM	GSG	B	W	☒	TB	☒	☒	TB	HS4	BI	HS7	W	☒	☒	F	W	☒	☒	☒	☒
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	10	R2318	op		☒	☒	2010		CRM	☒	CB	W	☒	☒	CB	PT	B	W	☒	☒	☒	☒	TB	HS4	G	HS7	W	☒	☒	F	W	☒	☒	☒	☒
	11	R2318	as		☒	☒	2010		CRM	☒	CB	W	☒	☒	CB	GSG	B	W	☒	☒	☒	☒	TB	HS4	BI	HS7	W	☒	☒	F	W	☒	☒	☒	☒
	12	R2318	op		☒	☒	2010		CRM	☒	CB	W	☒	☒	CB	GSG	B	W	☒	☒	☒	☒	TB	HS4	R	HS7	W	☒	☒	F	W	☒	☒	☒	☒
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	14	R2317	op		☒	☒	2010		CB	☒	CRM	W	☒	☒	CRM	PT	B	W	☒	☒	☒	☒	TB	HS4	BI	☒	☒	☒	☒	F	W	☒	☒	☒	☒

LEGEND

ROOF TILES

GSG	Russell Grampian Slate Grey
PT	Russell Penine Terracotta

FACING MATERIALS

CRM	Hanson Clumber Red Mixture
CB	Hanson Clumber Buff

WINDOW STYLE/MATERIAL/COLOUR

HB	Horizontal Bar/UPVC/White

PORCH

TB	Traditional Brick Construction
GRP	Glass Reinforced Plastic

DOORS

Front	HS4
Rear	HS7
Side	
Garage	
Grg Personell	
French	F

DORMERS

A	
B	
C	

CHIMNEYS

TB	Traditional Brick Construction
GRP	Glass Reinforced Plastic

BAY ROOF

TB	Traditional Brick Construction
GRP	Glass Reinforced Plastic

POSTAL ADDRESSES

plot no 1	
plot no 2	
plot no 3	
plot no 4	
plot no 5	
plot no 6	
plot no 7	
plot no 8	
plot no 9	
plot no 10	
plot no 11	
plot no 12	
plot no 13	
plot no 14	

COLOURS

B	Black
W	White
BI	Blue
R	Red
G	Green

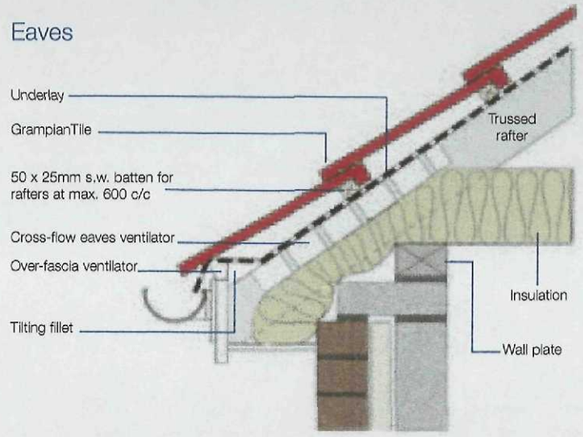
NOTES

	Affordable - rented
	Affordable - shared ownership
P/S	Parking space only
☒	not applicable

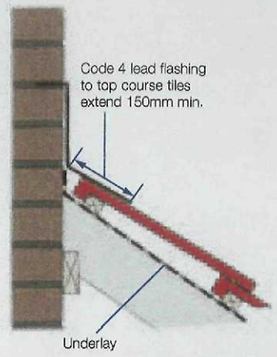
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Typical Details

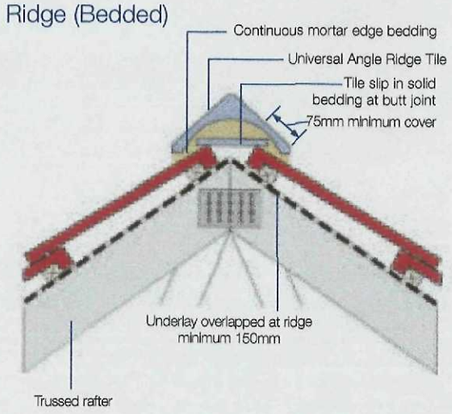
Eaves



Top edge abutment

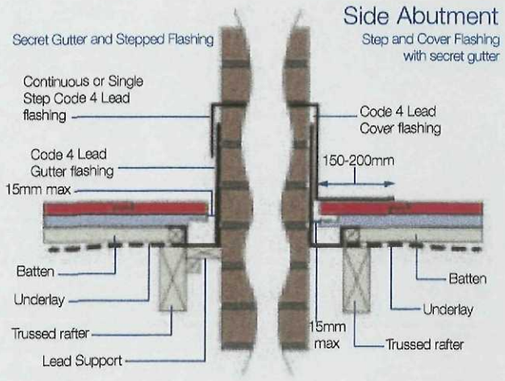


Ridge (Bedded)

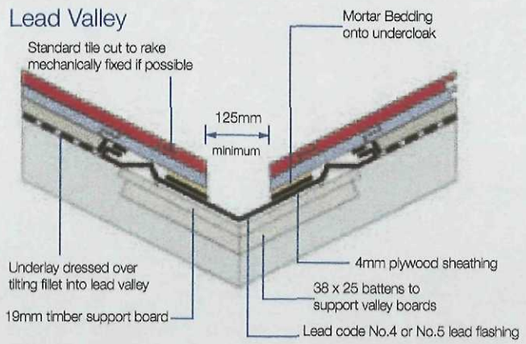


Side Abutment

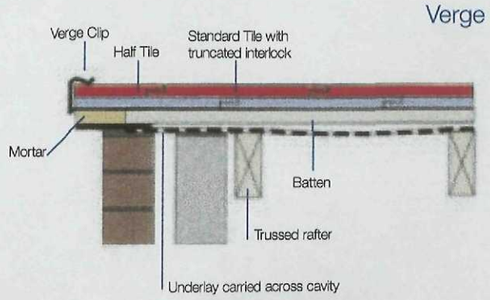
Step and Cover Flashing with secret gutter



Lead Valley



Verge



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

www.cemex.co.uk

Russell™

Grampian Tile





The Grampian is a standard flat interlocking roof tile. It combines the traditional appearance of clay tiles 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

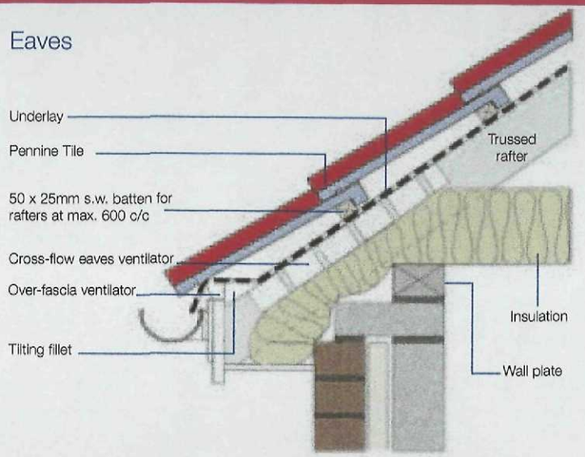
The roof is to be covered with 418mm x 330mm Russell Grampian Tiles laid broken bonded to a gauge of 343mm with a headlap of 75mm and fixed with 50mm x 3.35mm Aluminium alloy nails. Smooth or annular ring shank as fixing specification or clipped where necessary.

CEMEX

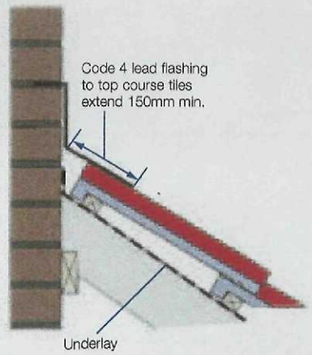
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Typical Details

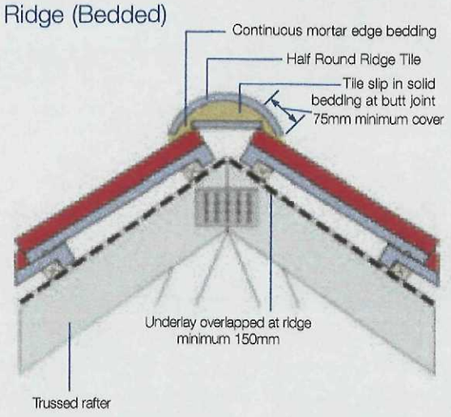
Eaves



Top edge abutment

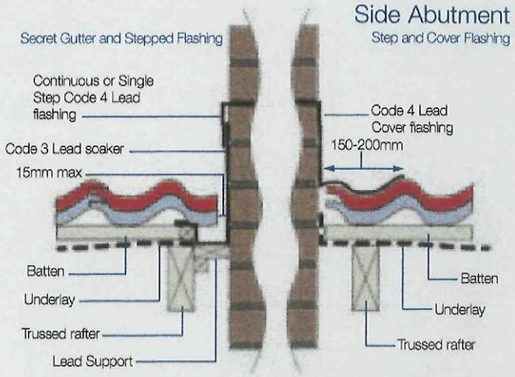


Ridge (Bedded)

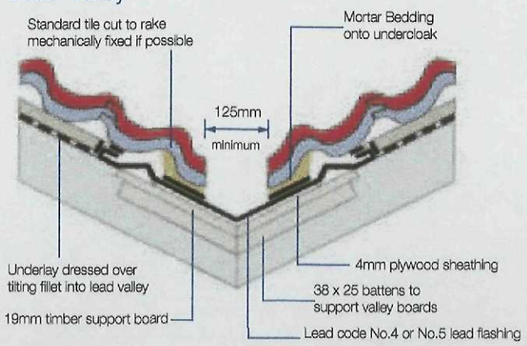


Side Abutment

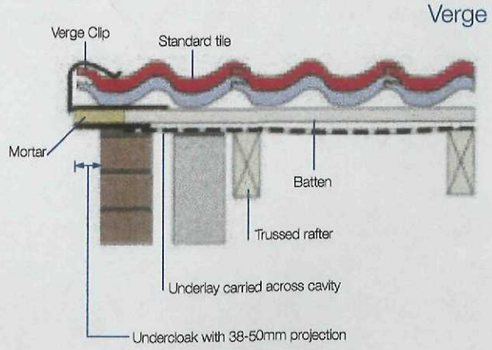
Step and Cover Flashing



Lead Valley



Verge



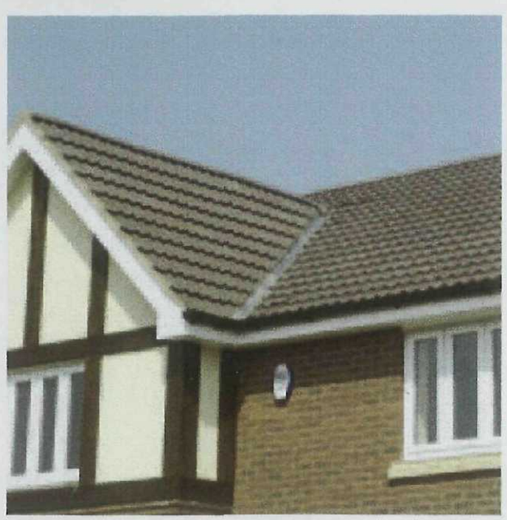
CEMEX Roof Tiles
Nicolson Way, Wellington Road, Burton-on-Trent, Staffordshire, DE14 2AW
Tel: 01283 517070 Fax: 01283 516290

www.cemex.co.uk

Russell™

Pennine Tile





The Pennine is a standard profile roof tile with a subtle 'soft' roll design. It creates a gently undulating roof with the security provided by its interlocking design.

Features and **Benefits**	**Tile Specification**
 330 418 Robust smooth flowing double pan tile design. Suitable for all styles of roof.	The roof is to be covered with 418mm x 330mm Pennine Tiles laid straight bonded to a gauge of 343mm with a headlap of 75mm and fixed with 40mm x 3.35mm Aluminium alloy nails. Smooth or annular ring shank as fixing specification or clipped where necessary.

CEMEX

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Ref: 0022-11

Pennine Tile

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° (Subject to fixing specification)
Minimum Pitch	22.5° (75mm Headlap) Smooth finish 30° (75mm Headlap) Granular finish
Headlap (minimum)	75mm
Gauge (maximum)	343mm
Covering Width	298mm
Covering Capacity (net)	75mm Headlap - 9.8 Tiles/m² 100mm Headlap - 10.6 Tiles/m²
Weight of Tiling	75mm Headlap - 49kg/m² (approx) 100mm Headlap - 53kg/m² (approx)
Weight per 1000 Tiles	4.8 tonnes (approx)
Batten Size - minimum (for rafters not exceeding 600mm c/c nailed to BS5534)	50x25mm
Battens required	75mm Headlap - 2.9m per m² 100mm Headlap - 3.1m per m²
Ridge	Universal Angle Ridge or Multi Ridge 110° capped Angle Ridge 90° 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	Standard Tile with 150mm wide fibre reinforced cement strip to provide 38-50mm overhang or Russell Interlocking Cloak Verge Units Russell Interlocking Dry Verge Units
Hips	Third round
Valleys	Open Metal Valley or GRP Valley Trough
Abutments	Cover flashing with Lead Soaker or cover flashing with Secret Gutter (severe exposed conditions)
Nails for Tiles	40mm x 3.35mm Aluminium Alloy Nail Smooth or annular 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

Technical Data

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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 be 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 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° Angle Hip 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 Standard Tiles, 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 • To be formed with standard or half tiles in conjunction with Russell Cloak Verge Units max. overhang not to exceed 50mm without use of soffit strap
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 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

Colour Range Commercial



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

■ Stock Colour
■ Non Stock Colour
Not available in profile

Granular
AB - Antique Brown
AR - Antique Red
CW - Cotswold
HR - Heritage Red

Smooth
AN - Anthracite
BK - Black
PB - Peat Brown
SG - Slate Grey
TC - Terracotta

Streaky
BO - Burnt Orange
CR - Cottage Red
PR - Peat Red
RP - Rustic Peat
TB - Tudor Black

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

www.cemex.co.uk

Russell™

Colour Range Commercial



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.

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Grampian Tile

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° (Subject to fixing specification)
Minimum Pitch	17.5° (100mm Headlap) 22.5° (75mm Headlap) Smooth finish 30° (75mm Headlap) Granular finish
Headlap (minimum)	75mm
Gauge (maximum)	343mm
Covering Width	298mm
Covering Capacity (net)	75mm Headlap - 9.8 Tiles/m² 100mm Headlap - 10.6 Tiles/m²
Weight of Tiling	75mm Headlap - 53kg/m² (approx) 100mm Headlap - 58kg/m² (approx)
Weight per 1000 Tiles	5.4 tonnes (approx)
Batten Size - minimum (for rafters not exceeding 600mm c/c nailed to BS5534)	50x25mm
Battens required	75mm Headlap - 2.9m per m² 100mm Headlap - 3.1m per m²
Ridge	Universal Angle Ridge or Multi Ridge 110° capped Angle Ridge 90° 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° angle, 120° 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 annular 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

Technical Data

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

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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 be 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° Angle Hip 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 Russell Dry Ventilated Ridge System provides the free area equivalent of a continuous 5mm gap to meet the requirements of the Building Regulations and BS5534C

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