

Manufacturers of light weight roofing systems

Britmet Tileform Ltd, Spital Farm Offices, Thorpe Mead, Banbury, Oxon OX16 4RZ

Tel: 01295 250998 Fax: 01295 271068

www.britmet.co.uk

email: sales@britmet.co.uk

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Technical Drawings & Installers Guides

For Panel and Eave to Ridge Tile Systems

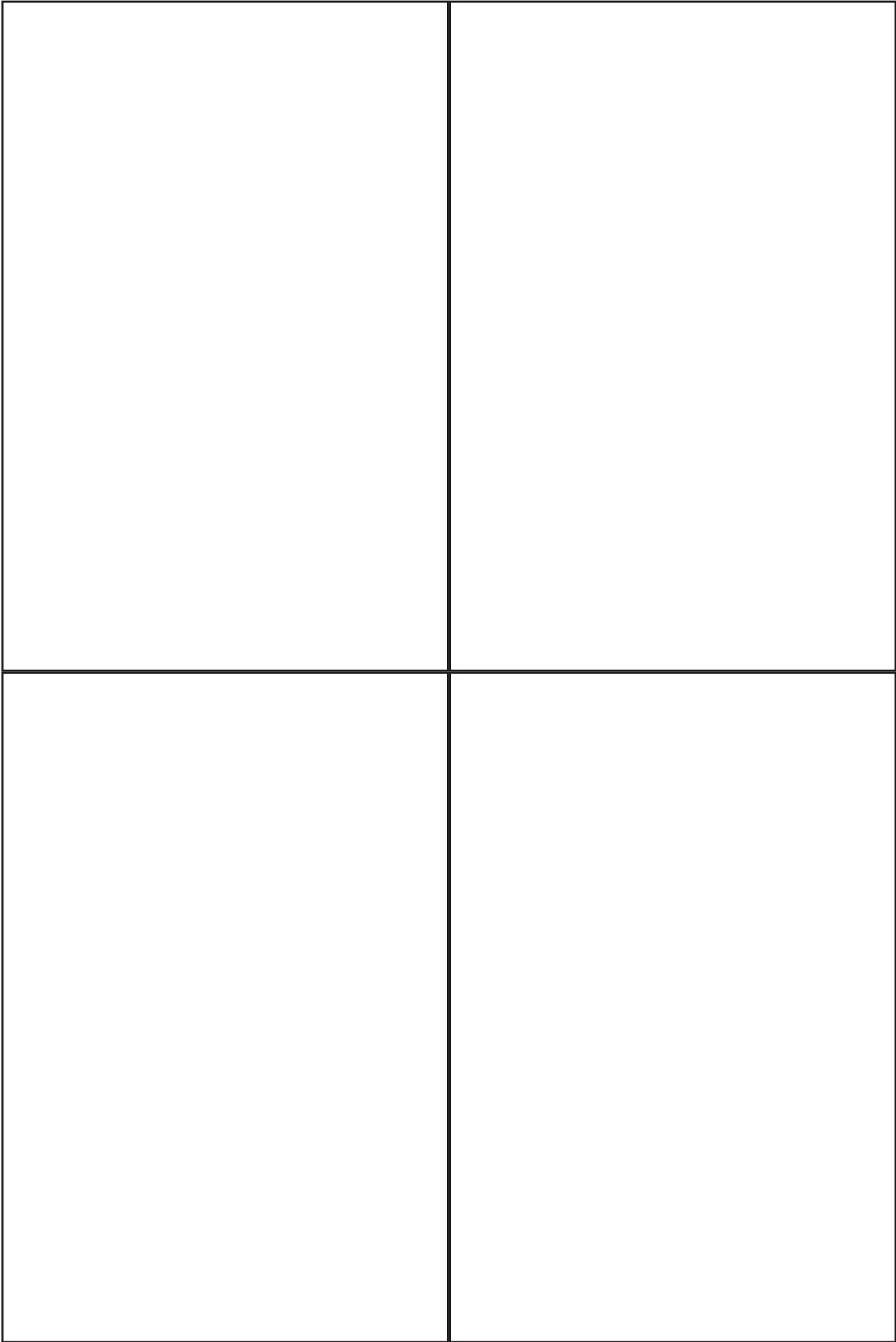
Lightweight Steel Roofing

BTL BRITMET TILEFORM LIMITED

LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION

<p style="font-size: small;">This drawing is the property of Bimmet Tileform Limited, and may not be copied without their express permission.</p> <p style="text-align: center;">SECTION</p>	<p style="font-size: small;">This drawing is the property of Bimmet Tileform Limited, and may not be copied without their express permission.</p> <p style="text-align: center;">AIR VENT RIDGE</p>	<p style="font-size: small;">This drawing is the property of Bimmet Tileform Limited, and may not be copied without their express permission.</p> <p style="text-align: center;">SOIL VENT RIDGE TERMINAL</p>
<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p>	<p>Title Typical Aluminium Gas Vent Ridge Detail.</p>	<p>Drawn by Second Base Limited</p> <p>Date Jan. 02</p> <p>Scale N.T.S.</p>
<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p>	<p>Title Typical Air Vent Ridge and Soil Vent Ridge Terminal Detail.</p>	<p>Drawn by Second Base Limited</p> <p>Date Jan. 02</p> <p>Scale N.T.S.</p>
<p>Product Pantile 2000 Boldroll</p>	<p>Title Sunpipe/Roof Light Penetration Size to Suit</p>	<p>Drawn by Britmet Tileform</p> <p>Date June 06</p> <p>Scale N.T.S.</p> <p>Drawing No. SK - 36</p>

LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION



INSTALLERS GUIDE FOR PANELS

1 REQUIREMENTS

PANELS

PROFILE 49
VILLATILE

SLATE 2000
ULTRALITE

PLAIN TILE

SOFT SOLED SAFETY SHOES

RULER

Pencil

TIN SNIPS

ROUND HEADED CLAW HAMMER

COLOUR NAILS

Bender

Guillotine

PLEASE NOTE: A UNDERLAY MUST BE USED

2 ADDITIONAL ACCESSORIES AVAILABLE

VENTED TOP ROW

ANGLE RIDGE/HIP FLASHING

B - RIDGE FLASHING

MONO RIDGE FLASHING

BARGE BOARD FLASHING

EAVES APRON FLASHING

SIDE WALL FLASHING

FLAT SHEET

COVER FLASHING

GRP VALLEY FLASHING

RIDGE VENT

VENTED TILE / SLATE

EAVES OV25 VENT

RIDGE BARREL & END CAP

3 FIXING THE FIRST BATTEN

TO SUIT THE ROOF PITCH AND THE TYPE OF GUTTER AND PRODUCT

MAX 328mm

ALLOW APPROX. 40mm INTO GUTTER

FIT FASCIA TO HEIGHT OF BATTENS, UNLESS EAVES VENTILATION IS BEING FITTED

NOTE: FOR VENTILATED EAVES, SEE PAGE 9

4 FIXING BATTENS FROM THE BOTTOM OF RAFTER, UP

BATTEN GAUGE:	0.45MM THICKNESS	OR	0.9MM THICKNESS
SLATE 2000:	369mm		367mm
PROFILE 49:	365mm		363mm
ULTRALITE:	365mm		363mm
PLAIN TILE:	160mm		158mm
VILLATILE:	370mm		368mm

LOWER FACE TO LOWER FACE

INSTALLERS GUIDE FOR PANELS

**NAIL TIMBER BARGE
BATTEN TO THE TOP OF
THE HORIZONTAL
BATTEN**

5

BARGE
BATTEN
SIZE 25mm - 38mm



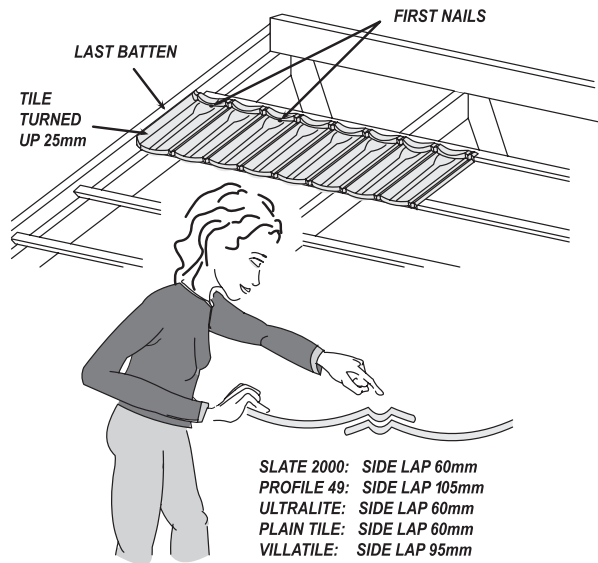
**LAY THE PANELS
STARTING FROM THE
FIRST BATTEN BELOW
THE RIDGE**

6

FOR BEST APPEARANCE, LAY LAPS AWAY FROM
PRINCIPAL LINE OF SIGHT

TILES CAN BE LAID FROM LEFT TO RIGHT OR
RIGHT TO LEFT

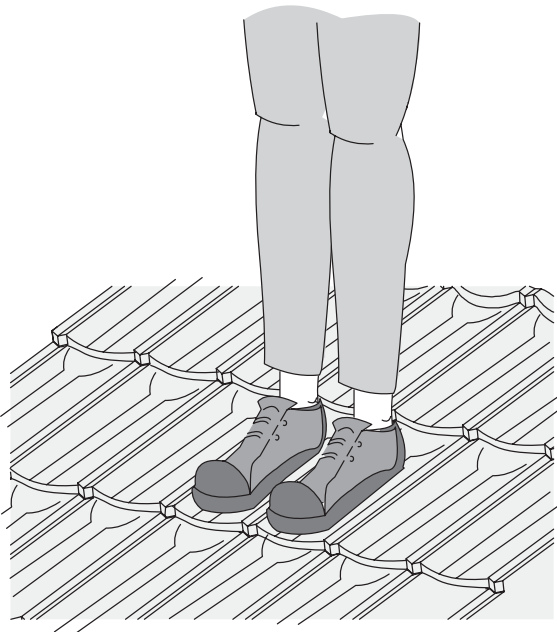
SLATE 2000: PANELS MUST BE LAID FROM RIGHT TO LEFT



SLATE 2000: SIDE LAP 60mm
PROFILE 49: SIDE LAP 105mm
ULTRALITE: SIDE LAP 60mm
PLAIN TILE: SIDE LAP 60mm
VILLATILE: SIDE LAP 95mm

**WHEN WALKING ON THE
ROOF, PLACE FEET IN
THE PANS OF THE
PANELS WHERE THE
BATTENS ARE SITUATED.**

7



**ONCE YOU HAVE LAID
SEVERAL COURSES**

8

(LAYING THEM ONE UNDER THE OTHER...)

START NAILING THEM INTO PLACE - 4 PER TILE



NAIL PANELS THROUGH NOSE
REMEMBER: LEAVE BOTTOM COURSE LOOSE
UNTIL MORE PANELS HAVE BEEN LAID
Note: For 0.9mm Panels Tek Screws Can Be Used

LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION

<p>This drawing is the property of Britmet Tileform Limited, and may not be copied without their express permission.</p> <p>TYPICAL EAVES DETAIL</p>	<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p> <p>Title Typical Eaves Detail. Steel Substructure, Insulation and Liner Tray.</p> <p>Date Jan 02</p> <p>Drawing No. SK - 21</p> <p>Drawn by Second Base Limited</p> <p>Scale N.T.S.</p>
<p>This drawing is the property of Britmet Tileform Limited, and may not be copied without their express permission.</p> <p>TYPICAL HIP DETAIL</p>	<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p> <p>Title Typical Hip Detail. Steel Substructure, Insulation and Liner Tray.</p> <p>Date Jan 02</p> <p>Drawing No. SK - 23</p> <p>Drawn by Second Base Limited</p> <p>Scale N.T.S.</p>
<p>This drawing is the property of Britmet Tileform Limited, and may not be copied without their express permission.</p> <p>TYPICAL RIDGE DETAIL</p>	<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p> <p>Title Typical Ridge Detail. Steel Substructure, Insulation and Liner Tray.</p> <p>Date Jan 02</p> <p>Drawing No. SK - 22</p> <p>Drawn by Second Base Limited</p> <p>Scale N.T.S.</p>
<p>This drawing is the property of Britmet Tileform Limited, and may not be copied without their express permission.</p> <p>TYPICAL VALLEY DETAIL</p>	<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p> <p>Title Typical Valley Detail. Steel Substructure, Insulation and Liner Tray. Cut Away Detail.</p> <p>Date Jan 02</p> <p>Drawing No. SK - 24</p> <p>Drawn by Second Base Limited</p> <p>Scale N.T.S.</p>

INSTALLERS GUIDE FOR PANELS

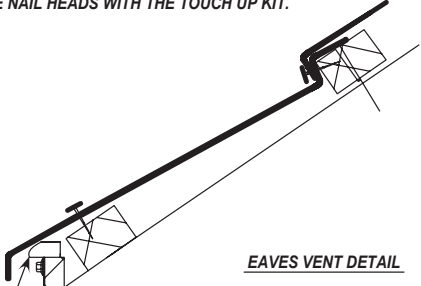
NAIL THE EAVES COURSE THROUGH HIGH POINT OF PAN - 4 PER TILE

9

EITHER INTO THE TOP OF THE EAVES BATTEN OR FASCIA BOARD



AFTER COMPLETION OF THE ROOF, COVER THESE NAIL HEADS WITH THE TOUCH UP KIT.



EAVES VENT DETAIL

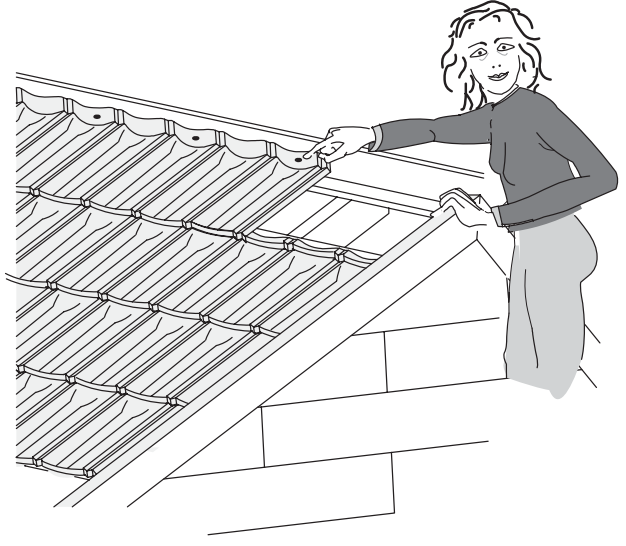
Over Fascia Vent 10mm or 25mm

ENSURE VENT IS AT THE SAME HEIGHT AS THE BATTEN (i.e. adjust height of fascia accordingly)

RIDGE COURSE - B - RIDGE

10

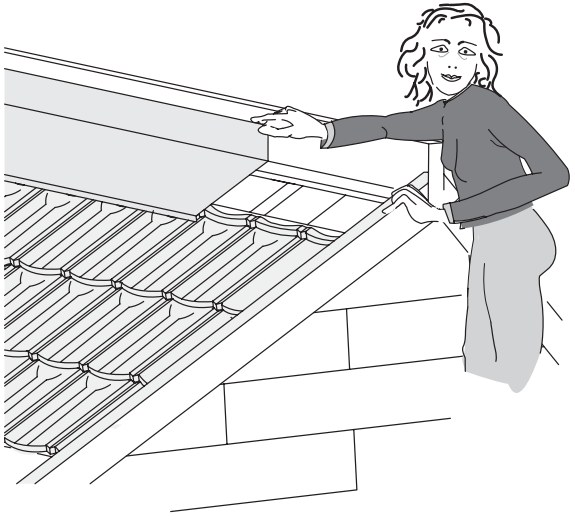
IF LESS THAN A FULL PANEL IS REQUIRED, MEASURE AND BEND IT TO SUIT. ALLOW 25mm - 38mm TURN UP AND NAIL TO RIDGE BOARD.



IF THE DISTANCE IS LESS THAN 120mm

11

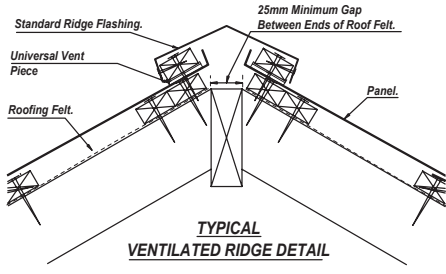
YOU CAN USE A COVER FLASHING, ALLOWING A 25mm - 38mm MIN UP-TURN AGAINST THE RIDGE BOARD



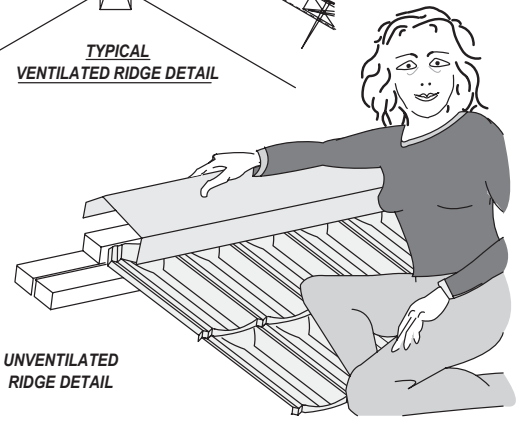
RIDGE COURSE - ANGLE RIDGE

12

FIX TWO TILE/SLATE BATTENS ON EITHER SIDE OF THE RIDGE. ADD AN ADDITIONAL TO THE REAR OF THE TWO TILE/SLATE BATTENS (50 X 25mm BATTEN TO SUIT THE ANGLE RIDGE). LAY TOP COURSE OF PANELS WITH BACK TURNED UP 25mm - 38mm



TYPICAL VENTILATED RIDGE DETAIL



UNVENTILATED RIDGE DETAIL

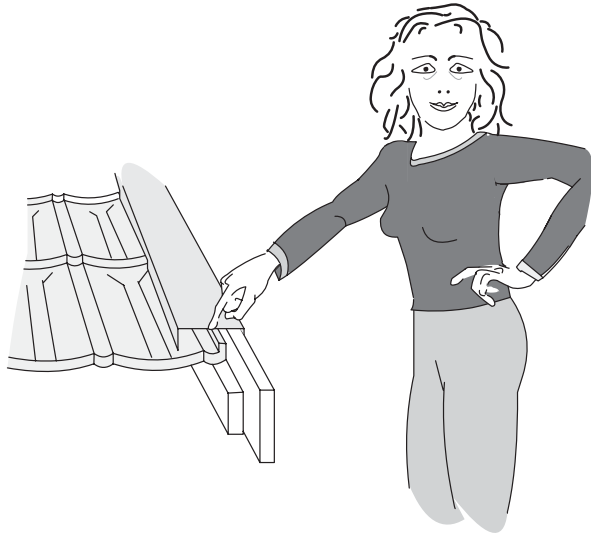
INSTALLERS GUIDE FOR PANELS

FIT THE BARGE BOARD COVER OVER THE BARGE

13

THE BARGE BOARDS ARE SCRIBED FOR LEFT & RIGHT HANDED USE.

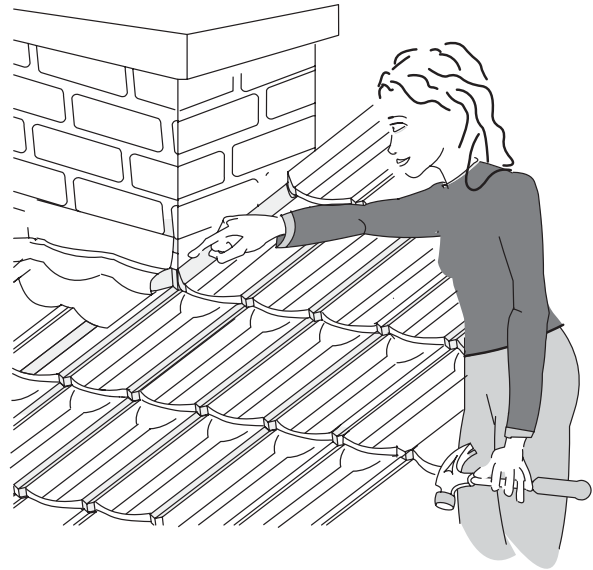
THE END OF THE PANEL IS TURNED 25mm - 38mm UP AGAINST THE BARGE - 4 NAILS PER FLASHING



LEAD FLASHINGS

14

TURN THE PANEL UP 75mm AND COVER WITH A TRADITIONAL FLASHING. THE BACK OF THE CHIMNEY TO BE FLASHED AS PER TRADITIONAL METHOD.

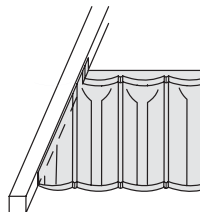


ANGLE HIP DETAIL

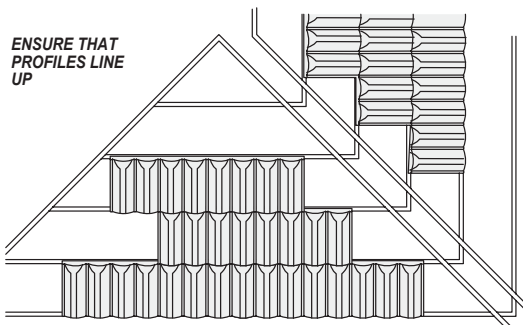
15

PLACE THE FIRST FULL PANEL BETWEEN 50mm AND 225mm FROM HIP BATTEN, LAYING SUBSEQUENT COURSES TO FOLLOW THE HIP LINE

TURN END OF THE PANEL UP AGAINST FRONT OF HIP BATTEN



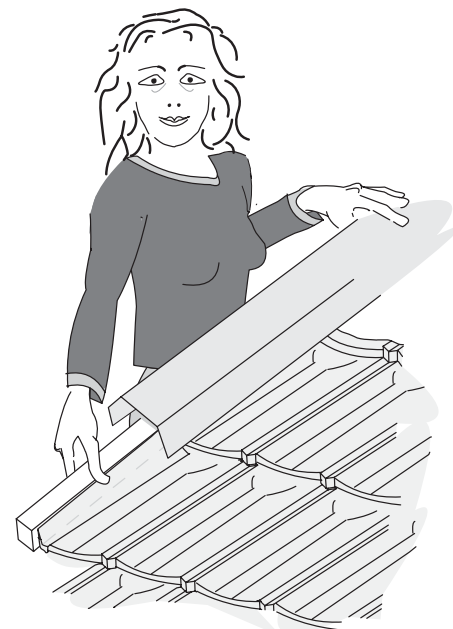
ENSURE THAT PROFILES LINE UP



ANGLE HIP DETAIL

16

BEND UP PANEL EDGE 25mm - 38mm TO HIP BATTEN AND FIX THE HIP RIDGE IN THE SAME WAY AS THE ANGLE RIDGE



LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION

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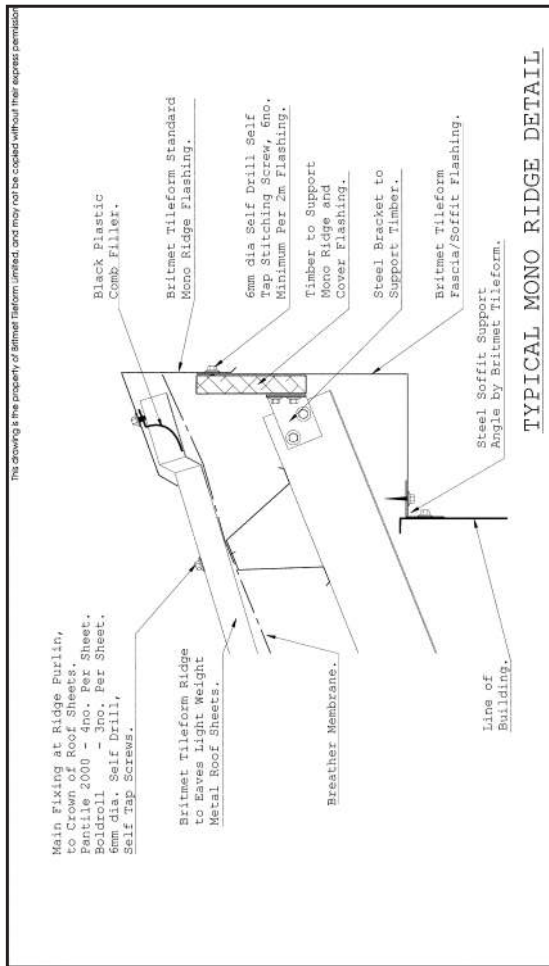
TYPICAL VERGE DETAIL

Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Title Typical Verge Detail. Timber Substructure.	Drawn by Second Base Limited Scale N.T.S.	Date Jan 02 Drawing No. SK - 17
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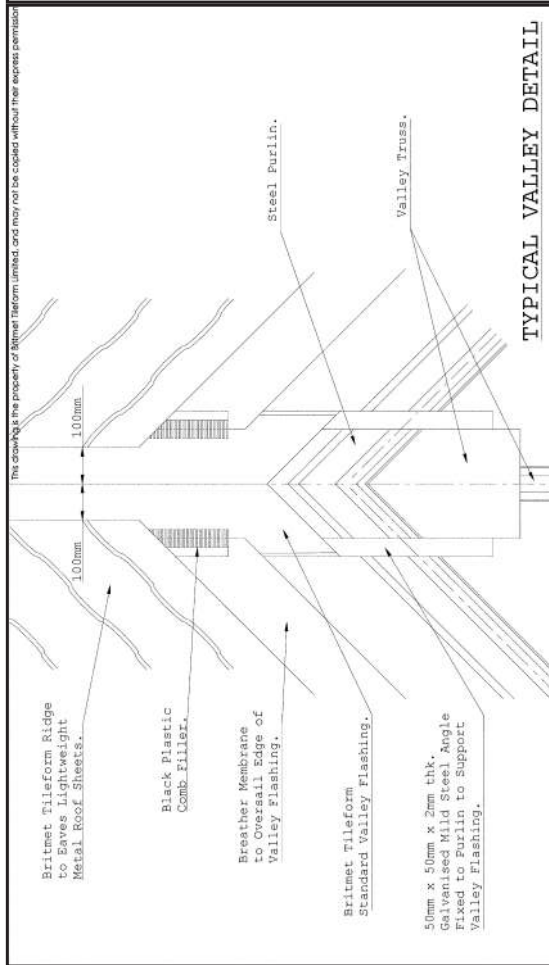
TYPICAL HIP DETAIL

Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Title Typical Hip Detail. Timber Substructure. Cut Away Detail.	Drawn by Second Base Limited Scale N.T.S.	Date Jan 02 Drawing No. SK - 18
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LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION



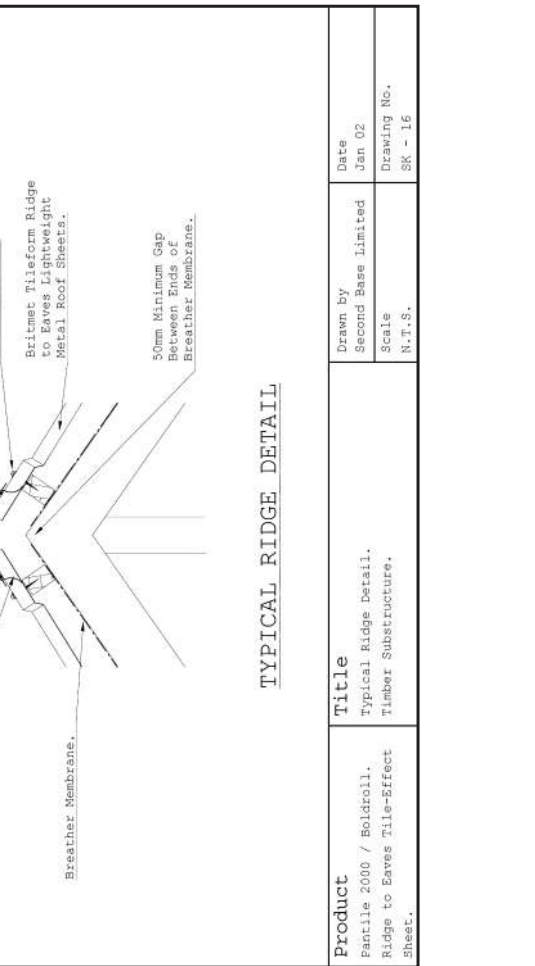
Product	Title	Drawn by	Date
Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Typical Mono Ridge Detail. Steel Substructure.	Second Base Limited N.T.S.	Jan 02 SK - 14



Product	Title	Drawn by	Date
Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Typical Valley Detail. Steel Substructure. Cut Away Detail.	Second Base Limited N.T.S.	Jan 02 SK - 13



Product	Title	Drawn by	Date
Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Typical Ridge Detail. Timber Substructure.	Second Base Limited N.T.S.	Jan 02 SK - 15



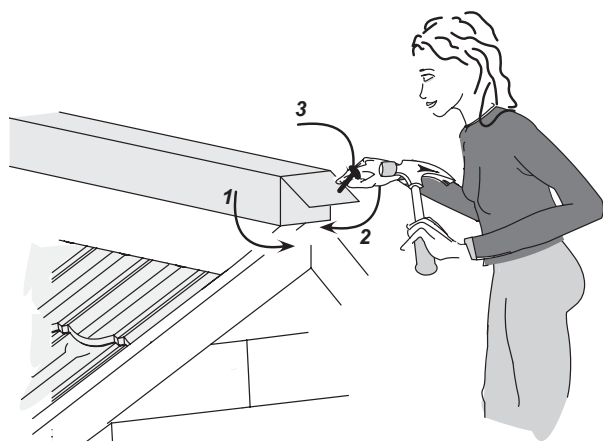
Product	Title	Drawn by	Date
Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Typical Ventilated Eaves Detail. Timber Substructure.	Second Base Limited N.T.S.	Jan 02 SK - 15

INSTALLERS GUIDE FOR PANELS

B-RIDGE END CAPS

17

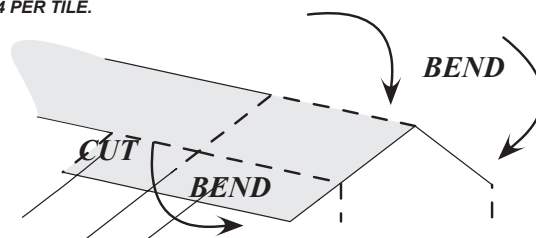
NAIL THROUGH SIDES OF RIDGE AND ALLOW AN OVER HANG. CUT AND FOLD (AS SHOWN) AND NAIL THROUGH THE END



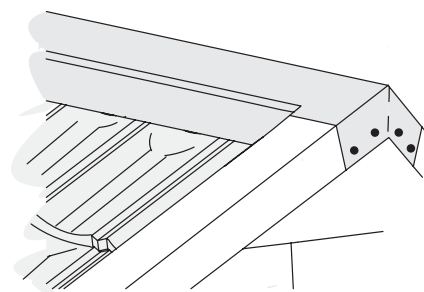
FINISHING ANGLE RIDGE ENDS

18

THE ANGLE RIDGE END CAPS ARE NAILED THROUGH THE DOWN-TURN, INTO THE BATTEN - 4 PER TILE.



AT THE ENDS, CUT TO ALLOW SUFFICIENT DOWN TURN TO COVER THE BARGE AND FOLD AS SHOWN.

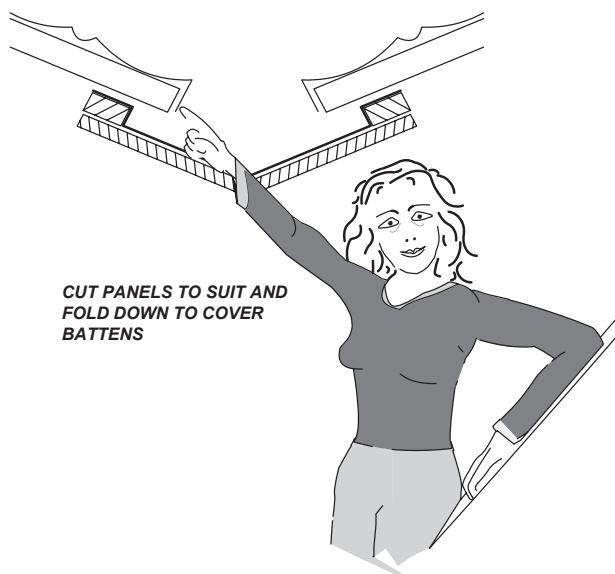


VALLEYS

19

VALLEY BOARDS TO BE LAID AT RAFTER LEVEL

CUT BATTENS TO RAKE, PROJECTING OVER VALLEY TO 65mm SHORT OF CENTRE LINE



CUT PANELS TO SUIT AND FOLD DOWN TO COVER BATTENS

INDEX TO TECHNICAL DRAWINGS

TILE PANEL

PAGE	DRAWING NUMBER	DESCRIPTION
6	SK-40	Dimensional Information. (Slate 2000, Ultratile, Profile 49, Plain Tile, Villatile)
6	SK-41	Typical Fixing Detail.
7	SK-42	Batten Spacing.
7	SK-43	Standard Flashings. Angle Ridge/Hip, Barge Board, Cover and Eaves Apron.
7	SK-44	Standard Flashings. Apron, Upstand and Valley.
7	SK-45	Typical Ventilated Ridge Detail.
8	SK-46	Typical Ventilated Mono Ridge Detail.
8	SK-47	Typical Ventilated Eaves Detail.
8	SK-48	Typical Barge Detail.
8	SK-49	Typical Hip Detail.
9	SK-50	Typical GRP Valley Detail.
9	SK-51	Sunpipe/Roof Penetration Detail
9	SK-52	Typical Ventilated Ridge Detail.

	<p>Title Dimensional Information. Horizontal Panel.</p>	<p>Drawn by Second Base Limited</p>	<p>Date Jan 00</p>
<p>The drawing is the property of Alimat (Pty) Ltd and may not be copied without their express permission.</p>	<p>Product Plain Tile Ultratile Slate 2000 Villatile Profile 49</p>	<p>Scale N.T.S.</p>	<p>Drawing No. SK - 40</p>
	<p>Title Typical Fixing Detail All Panels to be laid broken bonded</p>	<p>Drawn by Second Base Limited</p>	<p>Date Jan 00</p>
<p>The drawing is the property of Alimat (Pty) Ltd and may not be copied without their express permission.</p>	<p>Product Plain Tile Ultratile Slate 2000 Villatile Profile 49</p>	<p>Scale N.T.S.</p>	<p>Drawing No. SK - 41</p>

LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION

TYPICAL VENTILATED EAVES DETAIL

This drawing is the property of Britmet Tileform Limited, and may not be copied without their express permission.

Main Fixing at Eaves Purlin, to Crown of Roof Sheets.
Pantile 2000 - 4no. Per Sheet.
6mm dia. Self Drill, Self Tap Screws.

Black Plastic Comb Filler.

Britmet Tileform Standard Eaves Drip.

Gutter and Down Pipes.

Britmet Tileform Over Fascia Ventilation System to Give 25mm or 10mm Clear Opening.

Timber Fascia and Gutter Support.

Eaves Fascia/Soffit by Britmet Tileform.
6mm dia Self Drill Self Tap Stitching Screw, 4no. Per 2m Flashing.

Britmet Tileform Ridge to Eaves Lightweight Metal Roof Sheets.

Breather Membrane.

Steel Bracket to support Timber.

Soffit Support Angle by Britmet Tileform.

Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Title Typical Ventilated Eaves Detail. Steel Substructure.	Date Jan 02	Drawn by Second Base Limited
		Drawing No. SK - 09	Scale N.T.S.

TYPICAL RIDGE DETAIL

This drawing is the property of Britmet Tileform Limited, and may not be copied without their express permission.

Main Fixing at Ridge Purlin, to Crown of Roof Sheets.
Pantile 2000 - 4no. Per Sheet.
Boldroll 2000 - 3no. Per Sheet.
6mm dia. Self Drill, Self Tap Screws.

Black plastic Comb filler.

Britmet Tileform Standard Ridge Flashing.

Britmet Tileform Ridge to Eaves Lightweight Metal Roof Sheets.

Breather Membrane.

Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.	Title Typical Ridge Detail. Steel Substructure.	Date Jan 02	Drawn by Second Base Limited
		Drawing No. SK - 10	Scale N.T.S.

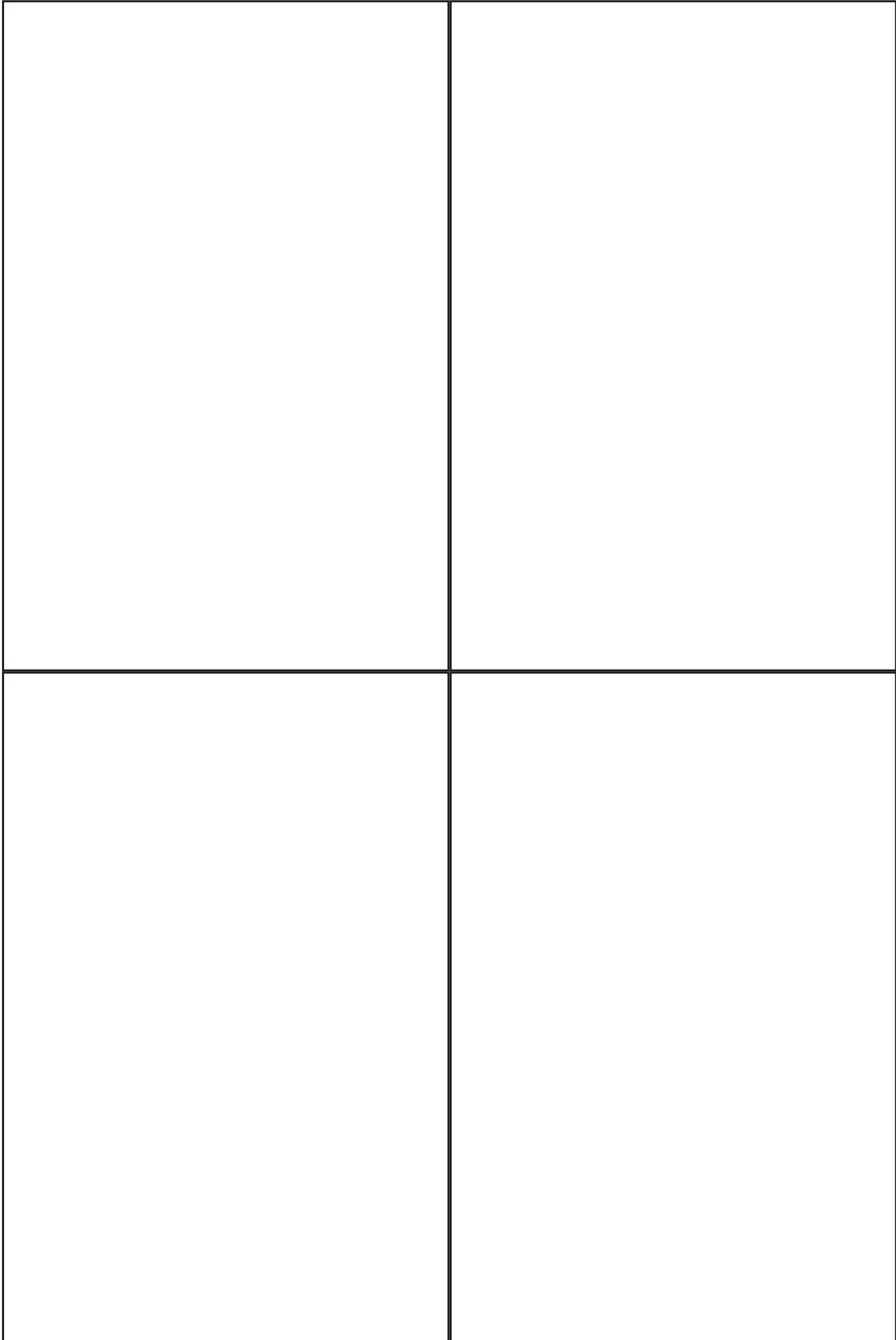
LIGHTWEIGHT EAVE TO RIDGE TILE SHEET TECHNICAL INFORMATION

This drawing is the property of Armet Reform Limited, and may not be copied without their express permission.		
<p>STAGE 1 Direction of Laying Horizontally.</p> <p>Ridge Eaves</p> <p>Direction of Laying Vertically</p> <p>N.B. Numbers Denote Order of Laying.</p>	<p>STAGE 2 Direction of Laying Horizontally.</p> <p>Ridge Eaves</p> <p>Direction of Laying Vertically</p>	<p>STAGE 3 Direction of Laying Horizontally.</p> <p>Ridge Eaves</p> <p>Direction of Laying Vertically</p> <p>Detail 1</p>
<p>STAGE 4 Direction of Laying Horizontally.</p> <p>Ridge Eaves</p> <p>Direction of Laying Vertically</p>	<p>COMPLETED ROOF Direction of Laying Horizontally.</p> <p>Ridge Eaves</p> <p>Direction of Laying Vertically</p>	<p>DETAIL 1 85</p> <p>Sheet Trimmed to Suit.</p>
<p>Product Pantile 2000 / Boldroll. Ridge to Eaves Tile-Effect Sheet.</p>	<p>Title Sheet Mitre Detail at Head Lap.</p>	<p>Drawn by Second Base Limited</p> <p>Date Jan 02</p> <p>Scale N.T.S.</p> <p>Drawing No. SK - 08</p>

LIGHTWEIGHT TILE PANEL TECHNICAL INFORMATION

<p>VENTILATED MONO RIDGE DETAIL</p> <p>The drawing illustrates the assembly of a ventilated mono ridge. It shows the placement of roof tiles over a rafter, with a fascia board installed over the ridge. A Britmet Tileform Universal Vent Piece is used to create a gap for ventilation. Dimensions include a 100mm gap between tiles, a 10mm clearance for ventilation, and a 130mm distance from the rafter to the fascia board. A 1/2mm gap is shown between the fascia board and the roof tiles. The drawing also indicates that no eave product is used in this detail.</p>	<p>Product Ultratile Slate 2000 Profile 49</p> <p>Title Plain Tile Villatile</p> <p>Date Jan 02</p> <p>Drawn by Second Base Limited Scale N.T.S.</p>	<p>Product Ultratile Slate 2000 Profile 49</p> <p>Title Plain Tile Villatile</p> <p>Date Jan 02</p> <p>Drawn by Second Base Limited Scale N.T.S.</p>
<p>TYPICAL VENTILATED EAVES DETAIL</p> <p>The drawing illustrates a typical ventilated eaves detail. It shows the assembly of roof tiles over a rafter, with a slate batten set back 20mm minimum from the eaves vent. A Britmet Tileform Eave Vent System is used to create a gap for ventilation. The system includes a vent/eave carrier and an insulation tray. The drawing also shows the installation of a 100mm gutter and bracket spacer, and a timber fascia and gutter support fixed to the ends of the roof trusses. Dimensions include a 50mm gap between tiles, a 25mm distance from the rafter to the fascia board, and a 20mm distance from the rafter to the slate batten. The drawing also indicates that no eave product is used in this detail.</p>	<p>Product Ultratile Slate 2000 Profile 49</p> <p>Title Plain Tile Villatile</p> <p>Date Jan 02</p> <p>Drawn by Second Base Limited Scale N.T.S.</p>	<p>Product Ultratile Slate 2000 Profile 49</p> <p>Title Plain Tile Villatile</p> <p>Date Jan 02</p> <p>Drawn by Second Base Limited Scale N.T.S.</p>

LIGHTWEIGHT EAVE TO RIDGE TILE SHEET
TECHNICAL INFORMATION

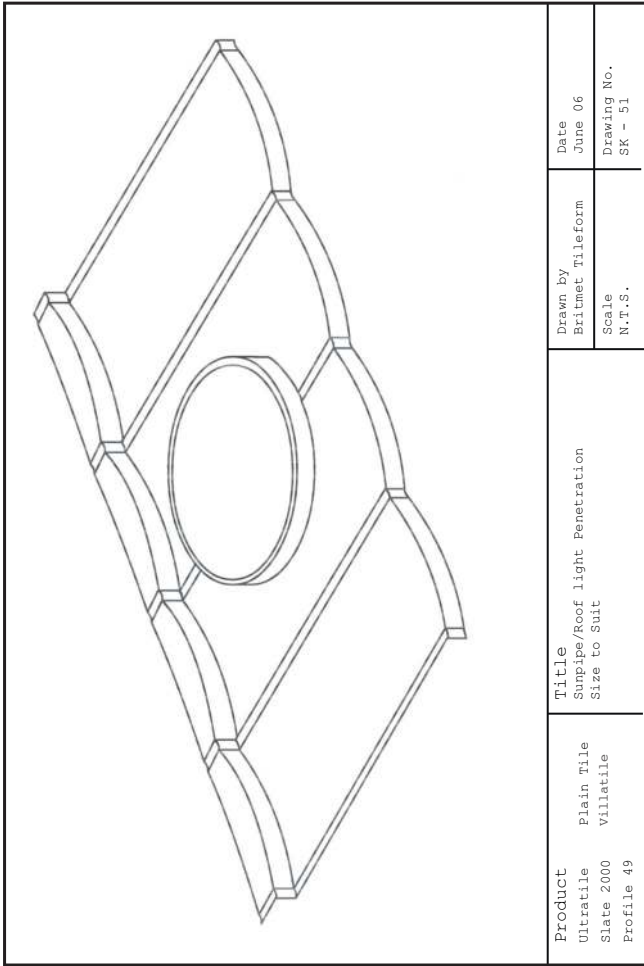


INDEX TO TECHNICAL DRAWINGS

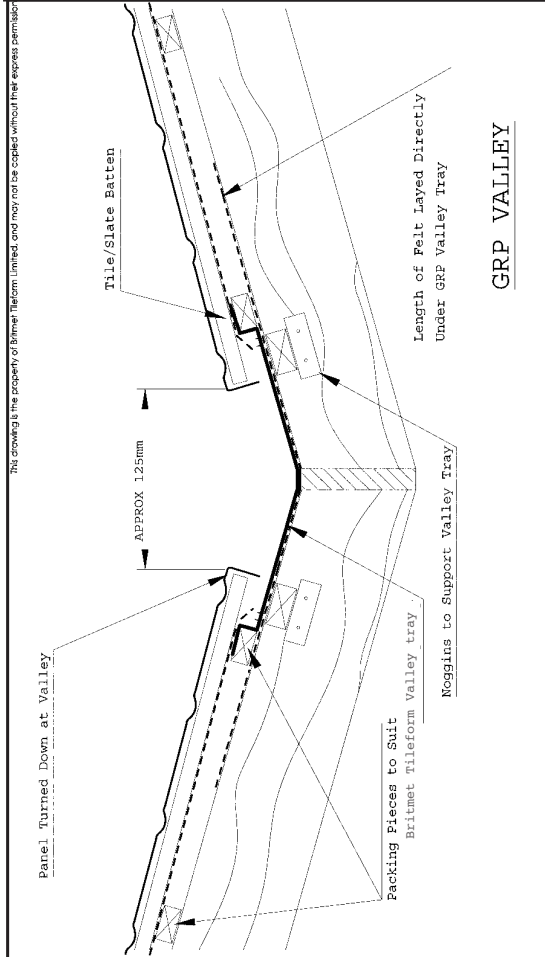
EAVE TO RIDGE TILE SHEET

PAGE	DRAWING NUMBER	DESCRIPTION
13	SK-01	Dimensional Information. (Boldroll)
13	SK-02	Lapping Details. Side/Head Lap. (Boldroll)
13	SK-03	Dimensional Information. (Pantile 2000)
13	SK-04	Standard Flashings. Ridge/Hip, Verge/Barge, Eaves Drip and Apron.
14	SK-05	Standard Flashings. Upstand, Mono Ridge, Eaves Fascia/Soffit and Verge Fascia/Soffit.
14	SK-06	Standard Flashings. Junction, Valley and Vent Ridge.
14	SK-07	Lapping Details. Side/Head Lap. (Pantile 2000)
14	SK-08	Sheet Mitre Detail at Head Lap.
15	SK-09	Typical Ventilated Eaves Detail. Steel Substructure.
15	SK-10	Typical Ridge Detail. Steel Substructure.
15	SK-11	Typical Verge Detail. Steel Substructure.
15	SK-12	Typical Hip Detail. Steel Substructure. Cut Away Detail.
16	SK-13	Typical Valley Detail. Steel Substructure. Cut Away Detail.
16	SK-14	Typical Mono Ridge Detail. Steel Substructure.
16	SK-15	Typical Ventilated Eaves Detail. Timber Substructure.
16	SK-16	Typical Ridge Detail. Timber Substructure.
17	SK-17	Typical Verge Detail. Timber Substructure.
17	SK-18	Typical Hip Detail. Timber Substructure. Cut Away Detail.
17	SK-19	Typical Valley Detail. Timber Substructure. Cut Away Detail.
17	SK-20	Typical Mono Ridge Detail. Timber Substructure.
18	SK-21	Typical Eaves Detail. Steel Substructure. Insulation and Liner Tray.
18	SK-22	Typical Ridge Detail. Steel Substructure. Insulation and Liner Tray.
18	SK-23	Typical Hip Detail. Steel Substructure. Insulation and Liner Tray. Cut Away Detail.
18	SK-24	Typical Valley Detail. Steel Substructure. Insulation and Liner Tray. Cut Away Detail.
19	SK-25	Typical Verge Detail. Steel Substructure. Insulation and Liner Tray.
19	SK-26	Typical Mono Ridge Detail. Steel Substructure. Insulation and Liner Tray.
19	SK-27	Typical Lead Flashing Detail to Chimney. Chimney at Ridge.
19	SK-28	Typical Lead Flashing Detail to Chimney. Chimney within Roof Slope.
20	SK-29	Typical Apron Flashing Detail.
20	SK-30	Typical Upstand Flashing Detail.
20	SK-31	Typical Detail at Change in Slope.
20	SK-32	Typical Detail at Translucent Sheet. Plan and Section.
21	SK-33	Typical Aluminium Gas Vent Ridge Detail.
21	SK-34	Typical Air Vent Ridge and Soil Vent Ridge Detail.
21	SK-35	Typical Detail at a Box Gutter.
21	SK-36	Sunpipe/Roof Light Penetration Detail.

LIGHTWEIGHT TILE PANEL TECHNICAL INFORMATION

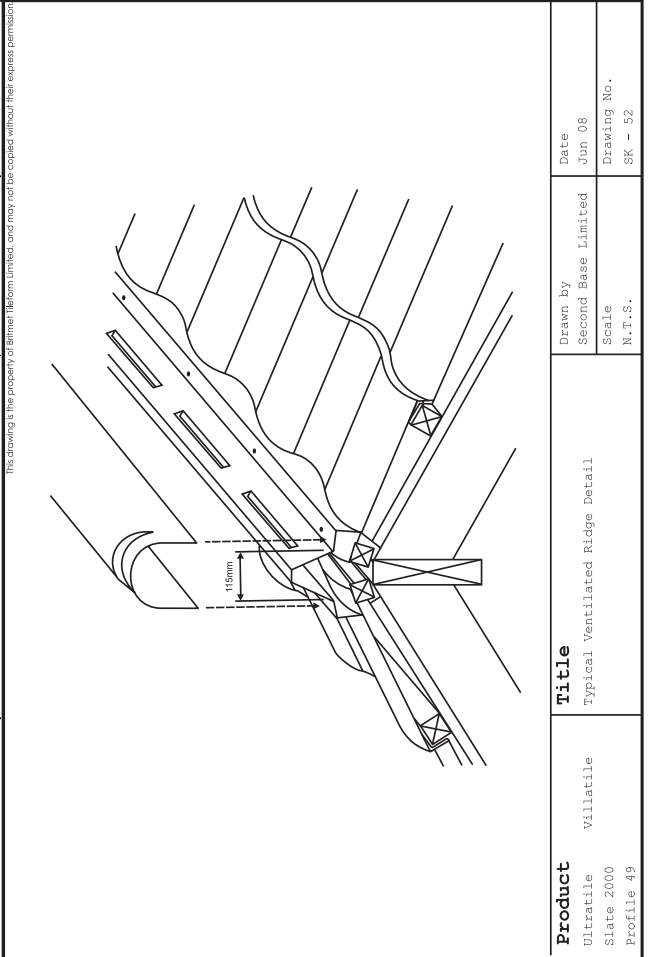


Product Ultratile Slate 2000 Profile 49	Title Sunpipe/Roof light Penetration Size to Suit	Drawn by Britmet Tileform Scale N.T.S.	Date June 06 Drawing No. SK - 51
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GRP VALLEY

Product Ultratile Slate 2000 Profile 49	Title Typical GRP Valley Detail.	Drawn by Second Base Limited Scale N.T.S.	Date Jan 02 Drawing No. SK - 50
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Product Ultratile Slate 2000 Profile 49	Title Typical Ventilated Ridge Detail	Drawn by Second Base Limited Scale N.T.S.	Date Jun 08 Drawing No. SK - 52
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