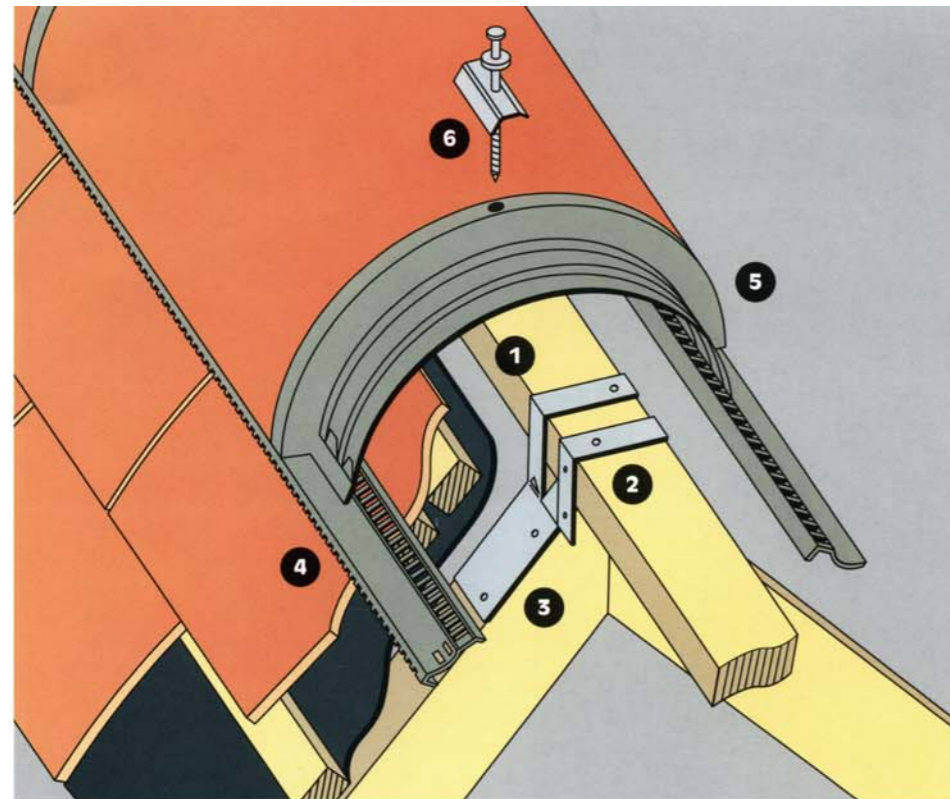


INSTALLATION PROCEDURE

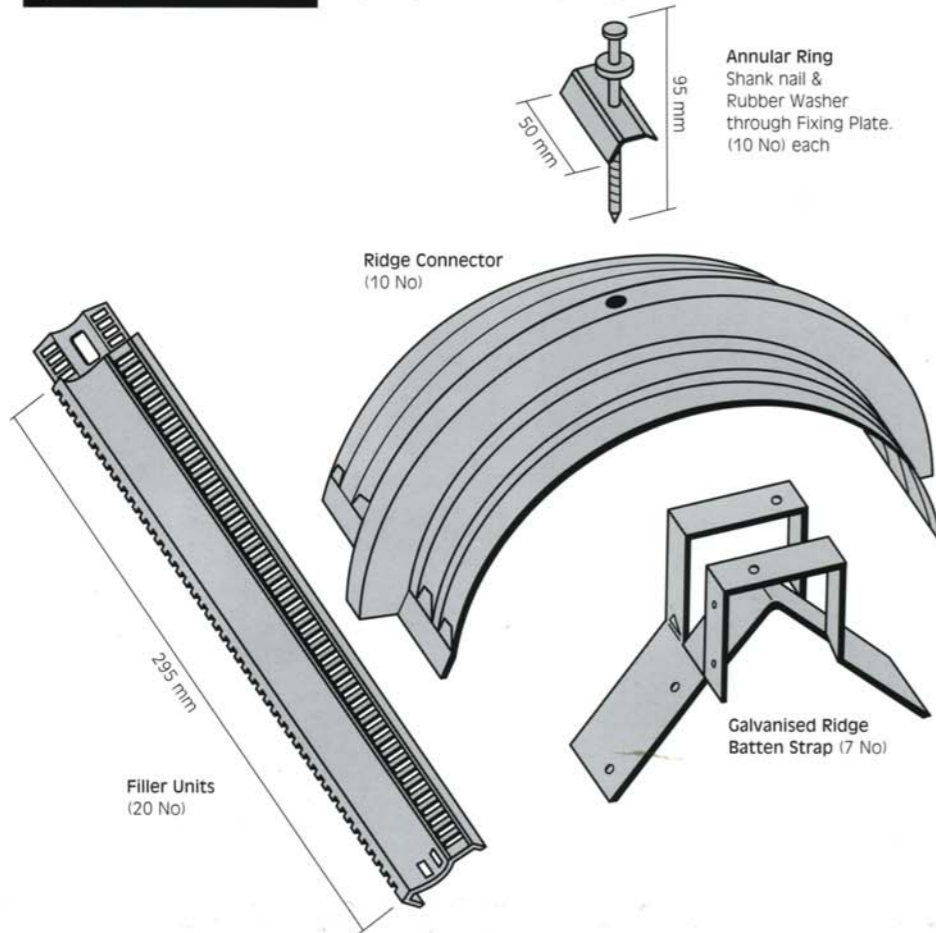
- 1 To ALLOW VENTILATION, TERMINATE THE UNDERLAY 30mm SHORT OF THE RIDGE APEX ON BOTH SIDES.
- 2 BEND A RIDGE BATTEN STRAP BETWEEN THE OPPOSING ARROW MARKS, TO THE APPROPRIATE ANGLE AND FIX TO THE APEX OF EACH RAFTER OR TRUSS USING CLOUT NAILS. BEND THE NARROW PORTIONS OF THE STRAP TO THE VERTICAL TO ACCOMMODATE A RIDGE BATTEN OF THE APPROPRIATE HEIGHT FOR THE ROOF PITCH. FOLD THE METAL STRAPS FULLY OVER THE RIDGE BATTEN AND SECURE THEM IN PLACE WITH CLOUT NAILS.
- 3 FIX THE TOP TILING BATTENS AND NAIL THROUGH THE RIDGE BATTEN STRAP.
- 4 LAY THE TOP COURSES OF TILES IN THE NORMAL MANNER AND THEN PLACE THE FILLER UNITS TO EACH SIDE OF THE RIDGE.
- 5 RIDGE TILES ARE PLACED ON TOP OF THE FILLER UNITS SEPARATED BY A RIDGE CONNECTOR.
- 6 PLACE A RUBBER WASHER ON ONE OF THE ANNULAR RING SHANK NAILS AND THREAD IT THROUGH A FIXING PLATE BEFORE DRIVING THE NAIL FIRMLY THROUGH THE HOLE IN THE RIDGE CONNECTOR INTO THE RIDGE TREE BATTEN. THIS WILL CLAMP THE ADJACENT RIDGE TILES FIRMLY IN POSITION.
- 7 CONTINUE FIXING IN THE SAME WAY ALONG THE RIDGE.
- 8 AT RIDGE ENDS, WHERE A TRADITIONAL MORTARED VERGE IS BEING USED, BED THE END RIDGE IN MORTAR IN THE TRADITIONAL MANNER.

TILELINE DRY FIX RIDGE SYSTEM



Whilst a traditional mortared ridge is the most aesthetic finish to a Dreadnought roof, the Tileline Dry Ridge System offers a maintenance free, simple to install method of fixing clay Half Round Ridges and at the same time forms a bird and insect proof ventilation gap of 5mm. In warm pitched roofs, where the insulation follows the rafters, it provides high level ventilation of 5000mm² per lineal metre which would not be achieved with tile vents or ridge vents if there was no air circulation between the individual voids formed by the rafters or counter battens.

QUANTITY ESTIMATION 1 pack per 3 metres of ridge



TILELINE VENTILATION SYSTEMS

The current Regulations and Recommendations for Roof Ventilation will be found in Building Regulations Approved Document C2 2004 and BS 5250: 2002 'Code of practice for control of condensation in buildings' incorporating amendment No1:2005, stating that on a pitched roof ventilation may be required in three areas

- 1 Eaves
- 2 Slope
- 3 Ridge

The Dreadnought Tileline Ventilation system enables ventilation to be achieved in these areas without visual interruption of the roofscape. This is achieved by providing ventilation space within the profile of the ridge or tile.

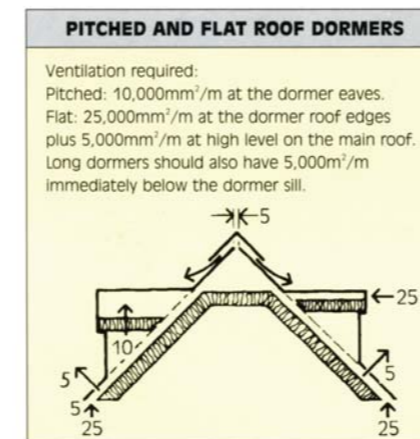
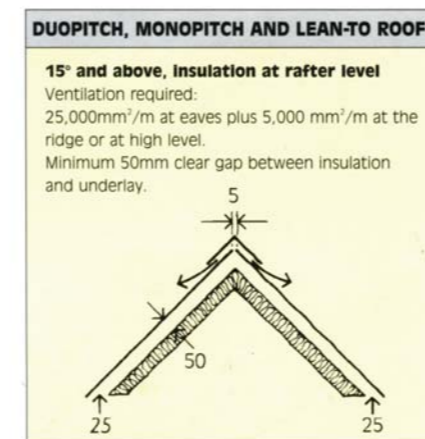
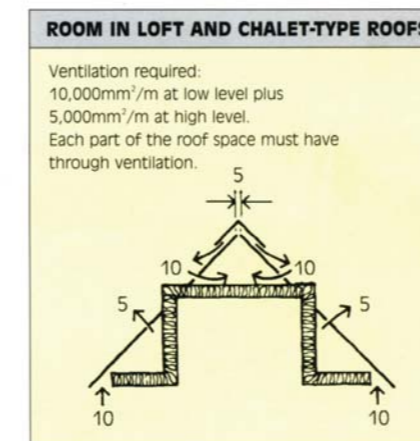
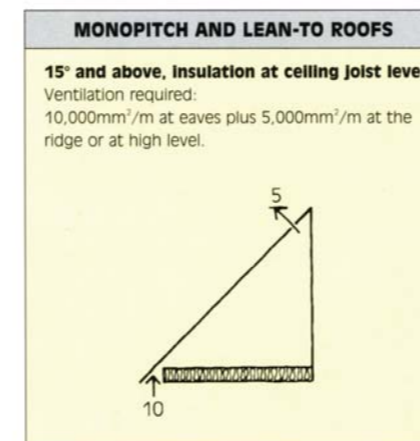
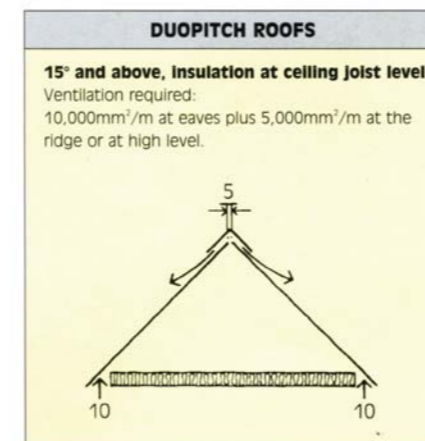
- 1 Tileline eaves ventilation pack for eaves ventilation.
- 2 Tileline plain tile vent for high (ridge) or low level ventilation.
- 3 Tileline ridge vent for high level (ridge) ventilation and dry ridge system.

These components colour matched to the Dreadnought range, are suitable for refurbishment and new projects and meet the following requirements:

ROOF VENTILATION Complies with Building Regulations Approved Document C2, BS 5250, and BS 5534

SOIL PIPE VENTILATION Complies with Building Regulations Approved Document H, when used with adaptor and sited 900mm from any roof opening

MECHANICAL VENTILATION Complies with Building Regulations Approved Document F when used with pipe adaptor.



FOR TECHNICAL ADVICE RING
01384 77405
OUR REPRESENTATIVES WELCOME THE OPPORTUNITY OF DISCUSSION AT THE DESIGN STAGE.
THE DREADNOUGHT TILELINE VENTILATION SYSTEM HAS BEEN RIGOROUSLY TESTED AGAINST DRIVEN RAIN AND IS MANUFACTURED TO A SYSTEM CERTIFIED TO BS EN 150 9001/9002.

RECOMMENDATIONS The illustrations above show common roof configurations with ventilation requirements or recommendations. This can be provided as a continuous ventilation gap or as a series of openings of equivalent area. On the diagrams the figures are expressed in terms of the width (in mm) of a continuous ventilation gap. Ventilation may also be expressed in terms of the area (in mm²) of ventilation opening required per metre run of eaves, ridge etc. Thus a continuous opening of 10mm corresponds to a ventilation area of 10,000mm² per metre, 25mm corresponds to 25,000mm² per metre. The amount of high level or ridge ventilation must never exceed the eaves ventilation.



Dreadnought Tiles

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IMPORTANT NOTICE: Technical information in this publication is given in good faith, and is believed to be accurate at the time of going to press.

Dreadnought TILELINE Ventilation System and Dry Fix Ridge



ROOFS UNSPOILT BY PROGRESS

HIGH INSULATION REQUIREMENTS AND CHANGES IN CONSTRUCTION PRACTICES HAVE PRODUCED INCREASED CONDENSATION IN THE ROOFSPACE. THIS HAS LED TO THE INTRODUCTION OF MANDATORY REQUIREMENTS FOR MEANS OF VENTILATION TO BE PLACED IN THE ROOF.

AS CLAY TILES ARE SPECIFIED LARGELY FOR THE AESTHETIC CONTRIBUTION THEY MAKE TO A BUILDING THIS INITIALLY POSED A DILEMMA AS EARLY VENTILATION PRODUCTS WERE NOT ONLY MADE OF INCOMPATIBLE MATERIAL BUT WERE UGLY AND PROMINENT, DESTROYING THE PROFILE OF THE TILING AND RIDGE.

THE DREADNOUGHT TILELINE VENTILATION SYSTEM OVERCOMES THESE OBJECTIONS.

ROOFS CAN NOW BE VENTILATED THROUGH A CLAY CLAD RIDGE OR A CLAY CLAD TILE VENT WHICH IS TOTALLY FLUSH WITH THE ADJACENT ROOF. BOTH CAN BE ADAPTED FOR USE WITH MECHANICAL EXTRACTION OR SOIL PIPE VENTILATION.

FIXING INSTRUCTIONS

TILELINE RIDGEVENT

THE DREADNOUGHT TILELINE RIDGE

VENTILATOR CAN BE USED FOR THE FOLLOWING APPLICATIONS

- LOFT SPACE VENTILATION AT HIGH LEVEL
- SOIL PIPE VENTILATION
- MECHANICAL EXTRACT FAN VENTILATION

1 FOR TRADITIONALLY CONSTRUCTED ROOFS WITH A RIDGE TREE, FIX TRIMMER BOARDS EITHER SIDE OF WHERE THE RIDGE TREE IS TO BE CUT TO ENSURE THE STRUCTURE IS NOT WEAKEND.

2 REMOVE A SECTION OF RIDGE TREE APPROXIMATELY 400MM (16") LONG.

3 BEFORE FIXING THE TOP TILING BATTENS CUT A SLIT IN THE ROOFING UNDERLAY AND FOLD THE FLAPS.

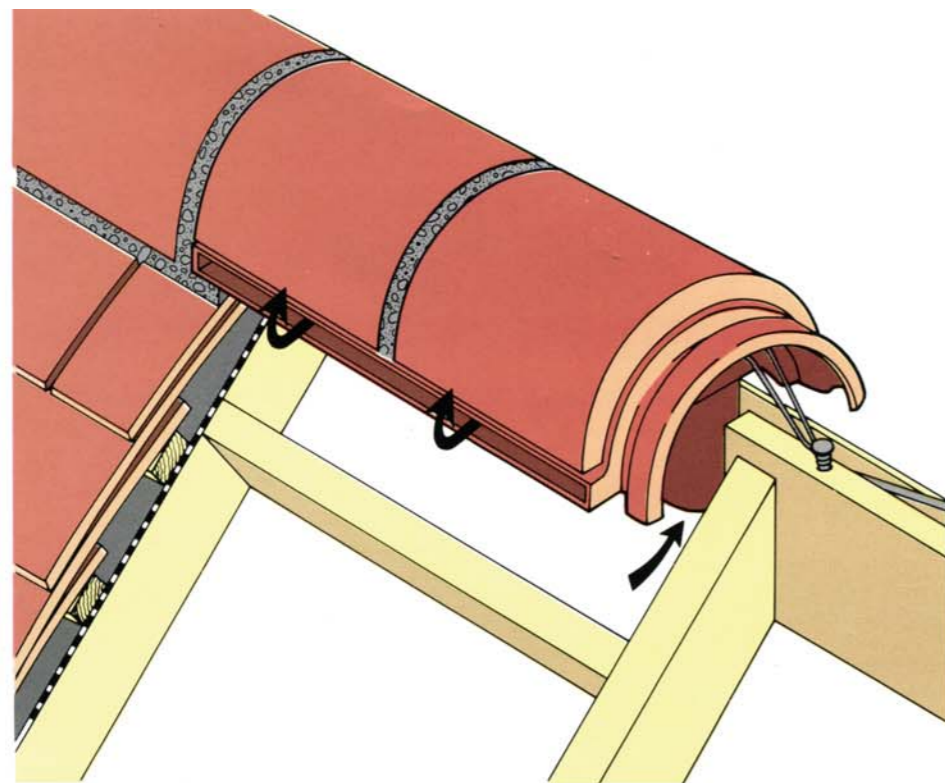
4 FIX THE TOP TILING BATTENS TO HOLD THE FLAPS IN PLACE

5 ENSURE THE SEAL IN THE EXTENSION SLEEVE IS IN POSITION AND FIT TO THE UNDERSIDE OF THE VENTILATOR. IF THE RIDGE PIPE ADAPTOR (SUPPLIED SEPARATELY) IS BEING USED THIS MUST BE ATTACHED FROM INSIDE THE ROOF AFTER THE INSTALLATION OF THE RIDGE VENT.

6 PLACE THE RIDGE IN POSITION SLIDING THE EXTENSION SLEEVE THROUGH THE FELT INTO THE ROOF VOID. NAIL FIX THE WIRE FITTINGS TO THE RIDGE TREE OR RAFTER. BED THE BASE OF THE VENTILATOR ON THE TOP COURSE IN THE SAME WAY AS A CONVENTIONAL RIDGE TILE ENSURING THAT THE GAP BETWEEN THE BOTTOM OF THE MOUTH OF THE VENTILATION SLOT AND THE SURFACE OF THE TOP COURSE IS NEATLY POINTED.

7 LAY ADJOINING RIDGE TILES OVER THE VENTILATOR ENDS AND MORTAR POINT ALL JOINTS.

NOTE: DO NOT USE FOR THE EXTRACTION OF HOT COMBUSTION GASES. THE VENTILATOR MUST BE SITED AT LEAST 900MM FROM ANY OPENING INTO THE ROOF.

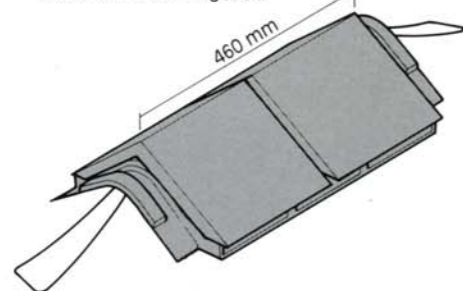


VENTILATION AREA 10,000mm² per Ridge Vent

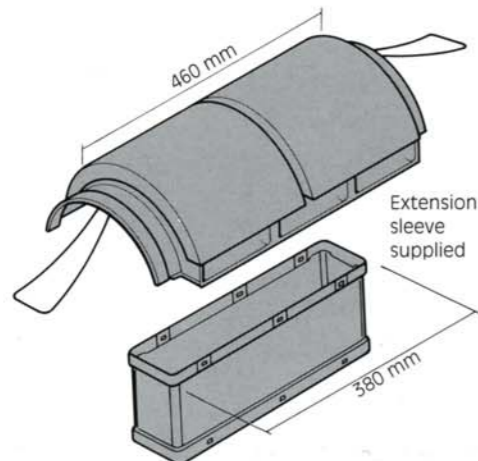
QUANTITY ESTIMATION One Ridge Vent per 2m = 5000mm² per lineal metre.
Space occupied on roof 1 Angle Ridge or 1½ Hogback or Half Round Ridge equivalent

MATERIAL SPECIFICATION Clay Ridge over uPVC base unit

Clay Clad Angle Ridge 90° or 105°
Also available in Hogback.

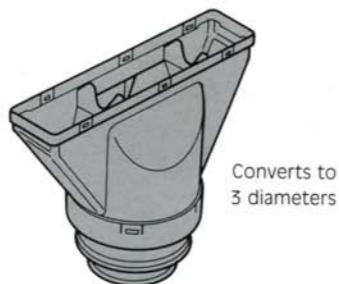


Clay Clad Half Round Ridge



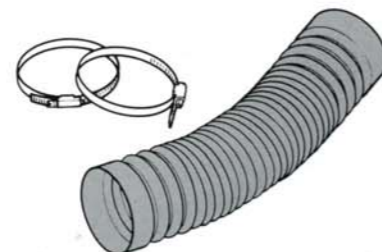
Pipe Adaptor

Ridge ventilators can be adapted for soil or mechanical extract by the use of the Ridge Pipe Adaptor. This converts the rectangular hole under the ridge ventilator to either 150, 125 or 100mm outside diameter round spigot.



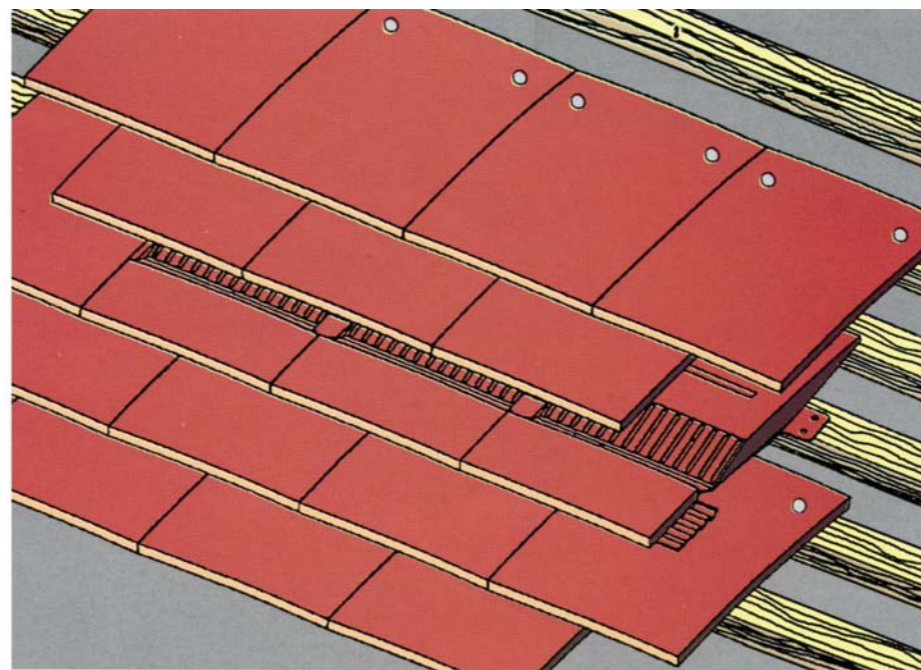
Flexible Pipe

To complete the system a flexible pipe is available to connect the spigot on the ridge or tile vent adaptor to the top of the stack pipe. This pipe is approximately 500mm long, will fit over 110mm outside diameter pipe, and is secured by Jubilee clips.



FIXING INSTRUCTIONS

TILELINE TILE VENT



Generous 7500mm² airflow enables them to be widely spaced. Simple to fit without the necessity for cut battens or tiles.

VENTILATION AREA 7500mm² per Tile Vent

QUANTITY ESTIMATION One Tile Vent per 1.5m = 5000mm² per lineal metre
Space occupied on roof 3 tile equivalents

MATERIAL SPECIFICATION Clay tiles on A.B.S. base
Mechanical Fixing - Stainless Steel

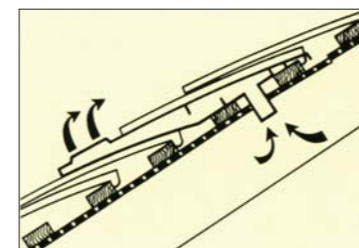
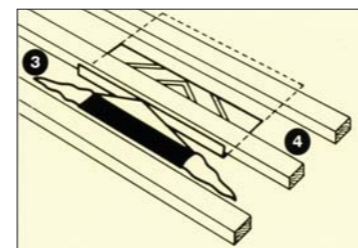
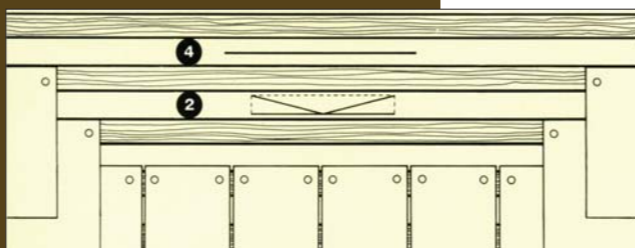
1 FELT, BATTEN AND TILE ROOF IN THE NORMAL MANNER.

2 AT THE POSITION THE VENTILATOR IS REQUIRED, LOCATE THE THROAT BETWEEN TWO TILE BATTENS, REMOVE AND CUT THROUGH THE UNDERLAY AS SHOWN BELOW.

3 FOLD THE THREE FLAPS UPWARDS AND OUTWARDS TO PROVIDE THE HOLE FOR THE VENTILATOR THROAT.

4 MAKE SECOND HORIZONTAL CUT 340MM WIDE IN THE UNDERLAY BETWEEN THE NEXT TWO BATTENS AND DIRECTLY ABOVE THE OPENING ALREADY CREATED. SLIDE IN UNDERLAY PROTECTOR UNIT THROUGH THE HORIZONTAL CUT AS SHOWN BELOW.

5 INSERT THE VENTILATOR THROAT THROUGH THE HOLE IN THE UNDERLAY INTO THE ROOFSPACE AND POSITION VENTILATOR ONTO SURROUNDING TILES. FIX TO TILE BATTEN BY THE SIDE FLANGES WITH TWO NAILS ENSURING HALF BOND IS MAINTAINED. POSITIVE FIXING IS REQUIRED TO PREVENT THE VENTILATOR LIFTING WHEN FITTING PIPE ADAPTOR.



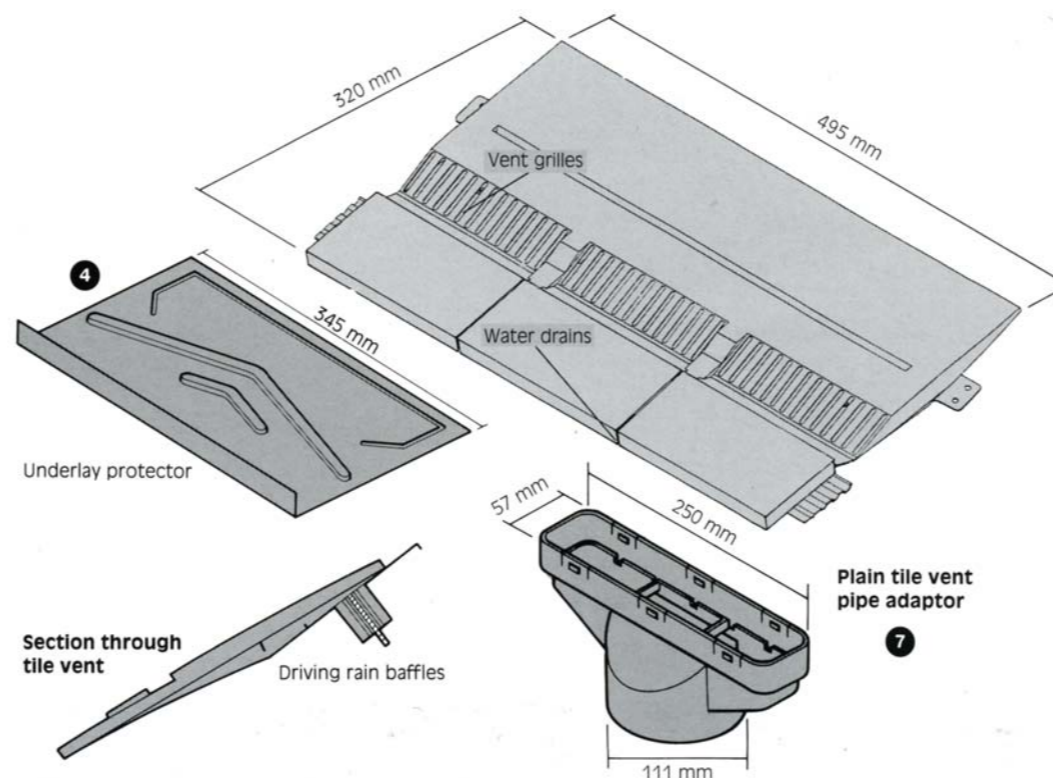
6 CONTINUE TILING IN THE NORMAL MANNER.

7 FOR SOIL VENTING OR MECHANICAL EXTRACTION, ATTACH THE DREADNOUGHT TILELINE ADAPTOR AND FLEXIBLE PIPE (SUPPLIED SEPARATELY) AFTER INSTALLATION OF THE VENTILATOR.

NOTE: DO NOT USE THE PLAIN TILE VENTILATOR FOR THE EXHAUST OF HOT COMBUSTION GASES.

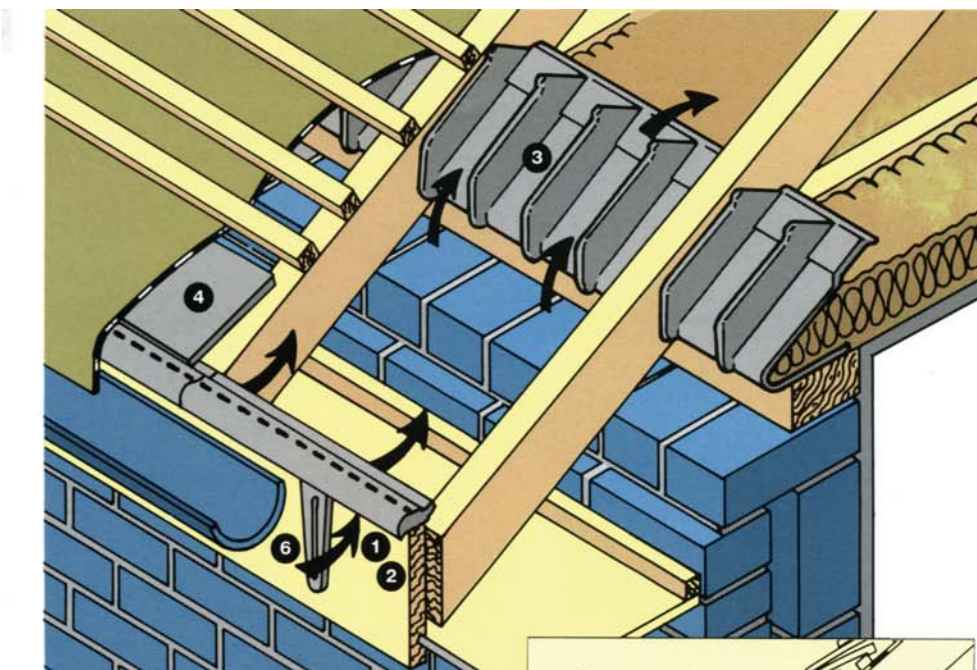
FOR SOIL VENT PIPE EXTRACTION THE VENTILATOR MUST BE SITED AT LEAST 900MM FROM ANY OPENING IN THE ROOF.

THE BACK OF THE FASCIA SHOULD BE SET 50MM ABOVE THE RAFTER FEET AT PITCHES OF 35°-45°.



FIXING INSTRUCTIONS

TILELINE EAVES VENTILATION SYSTEM



THE DREADNOUGHT TILELINE EAVES PACK CAN BE USED WITH OR WITHOUT A SOFFIT DETAIL AND IS SUITABLE FOR RAFTER CENTRES FROM 350MM TO 600MM.

1 LOCATE OR CUT FASCIA BOARD 15MM BELOW THE STANDARD POSITION FOR 10MM PACK AND 25MM BELOW THE STANDARD POSITION FOR THE 25MM PACK.

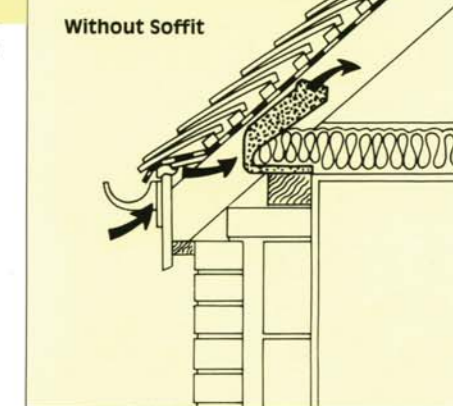
2 FIX THE FASCIA VENTILATORS ALONG THE TOP EDGE OF THE FASCIA BOARD EACH WITH TWO ALUMINIUM NAILS THROUGH THE SLOTS.

3 FIX THE EAVES VENTILATORS CENTRALLY BETWEEN EACH RAFTER ONTO THE WALL PLATE WITH TWO GALVANISED CLOUT HEAD FELT NAILS.

4 LAY TILTING FILLETT.

5 FELT AND BATTEN THE ROOF IN THE NORMAL MANNER.

6 FIX THE GUTTER BRACKET SPACERS IN THE REQUIRED POSITIONS BEHIND THE GUTTER BRACKETS. THE TOP OF THE SPACERS WILL LOCATE INTO THE FASCIA VENTILATORS (THE SPACERS ENSURE AN UNRESTRICTED AIR FLOW BEHIND THE GUTTER INTO THE VENTILATOR).



The Dreadnought Tileline Eaves Ventilation System provides both continuous over fascia roof space ventilation of 10mm or 25mm gap and an insulation interrupter in a simple weatherproof system. It offers the following benefits:

- The 300mm length of the fascia vent enables it to cope with inaccuracies in the fascia board.
- Felt is dressed into the gutter in the normal manner over the rounded front edge of the eaves strip and provides weather protection to the downward facing grill.
- Polypropylene is easy to cut with a saw and the compartmentalised design ensures that the 4mm insect screen remains intact after cutting.
- As the eaves ventilator is independent of the fascia board and its neighbouring trays, it can be fitted to any width of soffit and the 30mm depth of the straight ducts provide smooth and unrestricted airflow.
- The spacers guarantee correct airflow behind the gutter system.

QUANTITY ESTIMATION 1 pack per 6 metres of eaves Specify 10mm or 25mm gap

