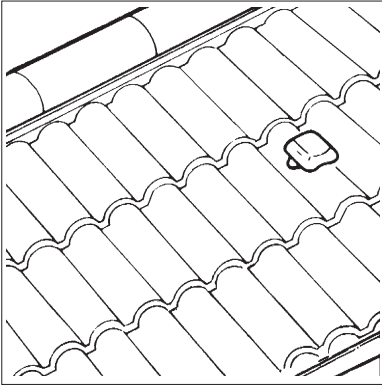


Product



• THIS DETAIL SHEET RELATES TO THE REDLAND REDVENT THRUVENT SOIL PIPE VENTILATING TILE FOR USE IN TRADITIONAL ROOF CONSTRUCTION TO PROVIDE ROOFSpace VENTILATION.

• The product is for use on 75 mm diameter soil/ventilating stacks on one or two storey buildings in drainage systems designed to BS 5572 : 1994.

• The components of the RedVent ThruVent Soil Pipe Ventilating Tile are supplied ready assembled. It is installed easily and is made from durable materials. Any colour changes that may occur will be uniform over the exposed surfaces of the components.

• It is essential that the ThruVent soil pipe ventilating tile is installed in accordance with the manufacturer's instructions and the requirements of this Detail Sheet.

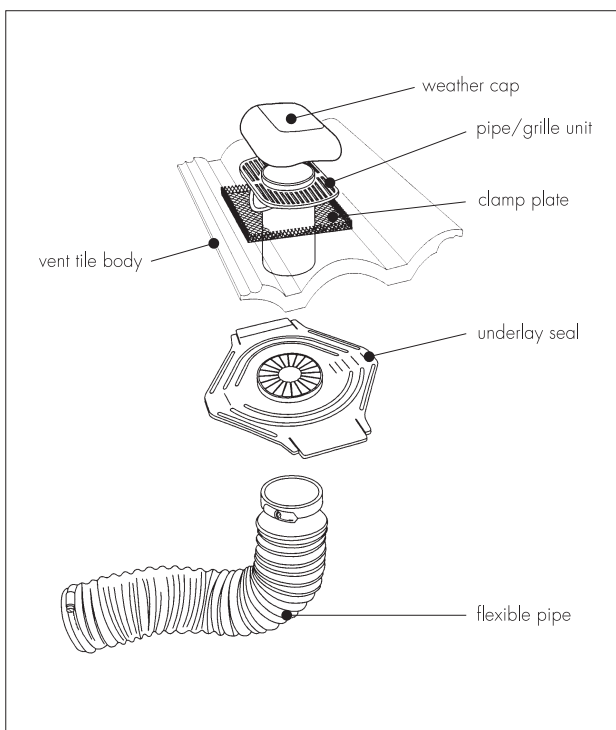
This Detail Sheet must be read in conjunction with the Front Sheet and Detail Sheet 1 which give Conditions of Certification and the product's position regarding the Building Regulations respectively.

Technical Specification

1 Description

1.1 The RedVent ThruVent Soil Pipe Ventilating Tile comprises the following parts with a roof tile assembled into one unit (except the underlay seal) (see Figure 1).

Figure 1 RedVent ThruVent Soil Pipe Ventilating Tile



- Pipe/grille unit — injection moulded from PVC-U to provide penetration through the concrete roof tile.
- Weather cap — injection moulded from PVC-U designed to fit over the pipe/grille unit for weather protection.
- Underlay seal — injection moulded polypropylene unit designed to provide an effective underlay seal around the pipe penetration.
- Seal housing — vacuum formed unit from homopolymer, calendered PVC-U sheet.
- Sealing gasket — made from closed cell expanded neoprene.
- Clamp plate — made from expanded stainless steel.
- Flexible pipe — flexible PVC with fully encased reinforcing wire, clip and moulded cuff.

1.2 Continuous quality control is exercised during manufacture and includes heat reversion tests, impact tests and checks on dimensional accuracy.

2 Delivery and site handling

2.1 The RedVent ThruVent Soil Pipe Ventilating Tile is packaged, complete with installation instructions, in easy-stacking polystyrene blocks.

2.2 Each package bears the manufacturer's name and the BBA identification mark incorporating the number of this Certificate. The packages should be stored under cover until ready for use.

Design Data

3 General

Connections to PVC-U soil or vent pipes to BS 4514 : 1983 can easily be made using the flexible PVC pipe for connection to 110 mm diameter pipe.

4 Strength and stability

4.1 The RedVent ThruVent Soil Pipe Ventilating Tile has adequate strength to resist damage during site handling or installation.

4.2 The product, when installed in accordance with the manufacturer's instructions, has adequate resistance to the wind and snow loadings likely to be encountered in the United Kingdom.

5 Properties in relation to fire



The introduction of the RedVent ThruVent Soil Pipe Ventilating Tile to a traditional roof construction, using the range of Redland concrete roof and ridge tiles, does not affect the normal AA rating for such construction.

6 Weathertightness



The weathertightness of a traditionally tiled roof will not be adversely affected by the introduction of RedVent ThruVent Soil Pipe Ventilating Tiles.

7 Performance of joints

The joints in the system will remain airtight when correctly made.

8 Ventilation efficiency



The RedVent ThruVent Soil Pipe Ventilating Tile will provide adequate ventilation to prevent the loss of trap seals in drainage systems designed to BS 5572 : 1994 and will contribute to the ventilation of the drainage system.

9 Practicability of installation

Installation of the RedVent ThruVent Soil Pipe Ventilating Tile can be easily carried out under normal site conditions.

10 Durability



10.1 The RedVent ThruVent Soil Pipe Ventilating Tile will have a life comparable to that of other components of the roofing system. However, in time, the plastic components exposed to the weather will suffer UV degradation causing a reduction of surface gloss and impact strength, but this will not affect the performance of the product.

10.2 Care should be exercised to avoid impact damage if any work, eg re-tiling, is carried out in the vicinity of aged plastics components. Any damaged components can be replaced easily.

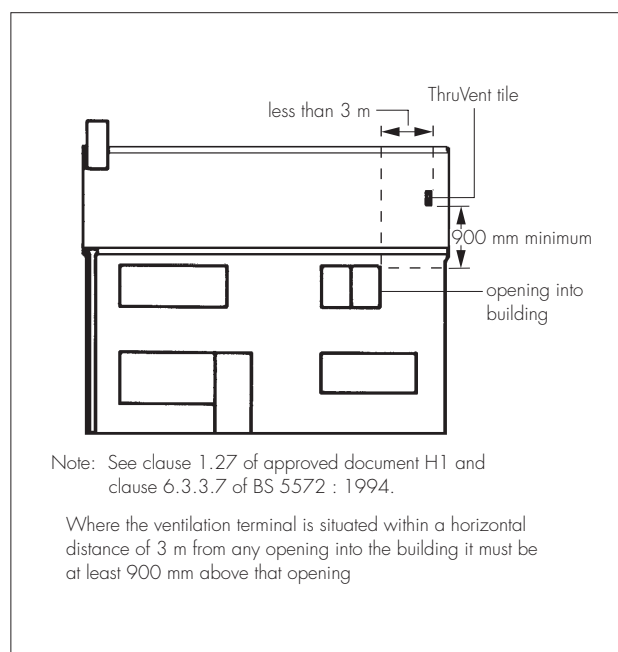
Installation

11 General

11.1 Locate the RedVent Soil Pipe Ventilating Tile in accordance with the England and Wales Building Regulations (see Figure 2).

11.2 Installation must be carried out in accordance with the manufacturer's fixing instructions.

Figure 2 Location of RedVent ThruVent Soil Pipe Ventilating Tile



12 Procedure

12.1 Prior to installation, the positions of the RedVent ThruVent Soil Pipe Ventilating Tiles in the roof must be determined.

12.2 Using the underlay seal as a guide, cut a slit in the roof underlay at the position indicated. The underlay seal should then be slid into place and a cross cut in the roof underlay in the centre of the hole. The product must then be positioned ensuring the pipe passes through the hole in the roof underlay. The tiling should then be completed in the normal manner.

12.3 The product is then connected to the soil ventilating pipe using the flexible PVC pipe for connection to 110 mm pipe.

Technical Investigations

The following is a summary of the technical investigations carried out on the Redland RedVent ThruVent Soil Pipe Ventilating Tile.

13 Tests

13.1 Tests were carried out on the PVC-U materials used to manufacture the components of the product,

in accordance with BS 2782 and BBA MOAT No 8 : 1973 to determine:

Vicat softening point
shrinkage on heating
de-hydrochlorination
ash content
density.

13.2 The effective area of ventilation of the unit is 4500 mm².

14 Investigations

14.1 The manufacturing process was examined including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

14.2 Visits were made to sites in progress to assess the practicability of installation, and to sites where the product was in use to assess practicability and performance.

14.3 An evaluation was made of the effectiveness of the product.

14.4 Results of tests carried out by, or on behalf of, Redland Roof Tiles Ltd, were examined by the BBA to assess:

resistance to driving rain and deluge
resistance to air flow
durability
determination of integrity of joints between units.

Bibliography

BS 2782 : *Methods of testing plastics*

BS 5572 : 1994 *Code of practice for sanitary pipework*

BS 4514 : 1983 *Specification for unplasticized PVC soil and ventilating pipes, fittings and accessories*

MOAT No 8 : 1973 *Directive for Rigid PVC Products Used Externally in Building*



On behalf of the British Board of Agrément

Date of Second issue: 3rd September 1999

Chief Executive

**Original Certificate issued, to Redland Roof Tiles Ltd, on 11th January 1989. This amended version issued to include change of name of the Certificate holder.*

