Ventilation Systems

Eaves Ventilation System

The three part 6 metre ventilation pack provides a practical, discreet and cost effective solution for roof ventilation requirements.

Continuous Crossflow Roll Form

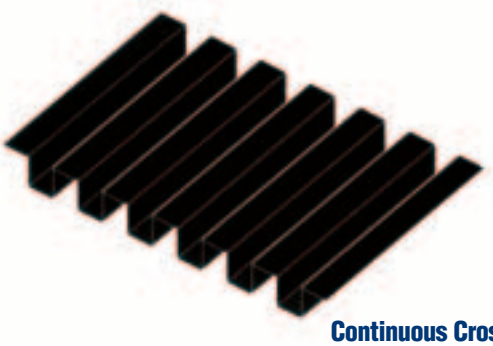
The Continuous Roll Form Eaves Ventilator is suitable for 400mm, 450mm and 600mm rafter centres, the vacuum formed roll should be fixed to the rafters at one end of the roof, ensuring that the lower edge overhangs the wall plate and simply rolled, nailed or stapled to along the enquired length. The panel is suitable for new build situations while its flexibility makes it ideal for refurbishment where rafter centres are often not constant or unknown. Used in conjunction with Over Fascia Ventilator. It ensures the requirements of a continuous 10-25mm gap are maintained into the roofspace.

Felt Support Tray

The function of the felt Support Tray is to prevent roofing felt sagging and puddling. This will eliminate a number of potential problems but principally the collection of water in sagging felt. This scan require extensive felt restoration and lead to the risk of water forming within the eaves area with water damage to the timber as a result.

Over Fascia Ventilator

Designed to be fitted on the top of the fascia board the over fascia ventilator discreetly ensures a positive passage of airflow into the roof space between the felt and fascia board making it ideal for a new build and re-roofing situations. Where necessary, it allows for the Eaves Comb Filler to be nailed through the unit into the fascia board. It provides the equivalent airflow of a continuous 10mm or 25mm gap. (Please qualify air flow requirement when placing order).



Continuous Crossflow Roll panel

Felt support tray

Over fascia ventilator

Abutment Ventilation System

The Russell Abutment Ventilation System provides for continuous high level ventilation for lean-to-roof construction. It is designed to meet the requirements of the Building Regulations, whilst being discreet and aesthetically pleasing.

- Suitable for use with all Russell interlocking and Plain Tile profiles.
- Single piece individual units.
- Lead support has straps to secure a lead apron flashing.
- Minimum pitch as recommended for the profile, maximum pitch 60°.
- Provides 5000mm² free ventilation area per metre of abutment (equivalent to a continuous 5mm gap).

Flat Products

Profiled

Abutment Ventilation System

Flat Profile – tiles and slates

Figure 1

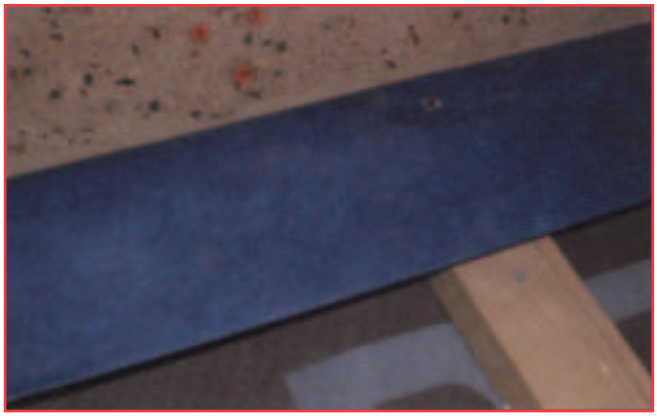


Figure 2

1. Bring the felt over the top of the top batten, so as to lap back under the tile (when laid). (Fig.1)
Secure so that the felt leaves a clear air passage between the abutment wall and the top batten. (Fig.2)

2. Secure the top row of tiles in the usual way, nailing as required. (Fig.3)

Figure 3

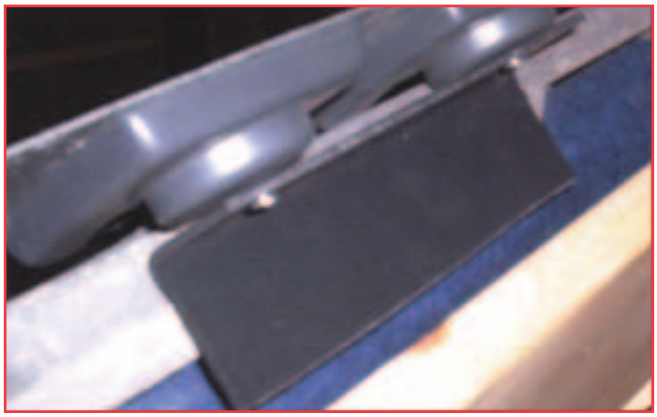


Figure 4

3. Place the ventilator unit onto the tiles so that the 'lip' locates over the tile top edge. The unit will rest onto the face of the tiles ready to receive the lead apron flashing. (Fig.4)

4. The lead can then be dressed into the unit and held in place by the locating straps to the front edge. (Fig.5)
Code 4 lead with a minimum 150mm distance from the abutment, giving at least 100mm tile cover. (Fig.6)

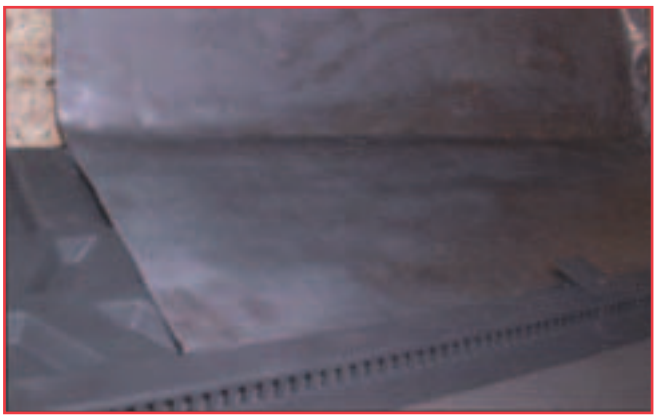


Figure 5

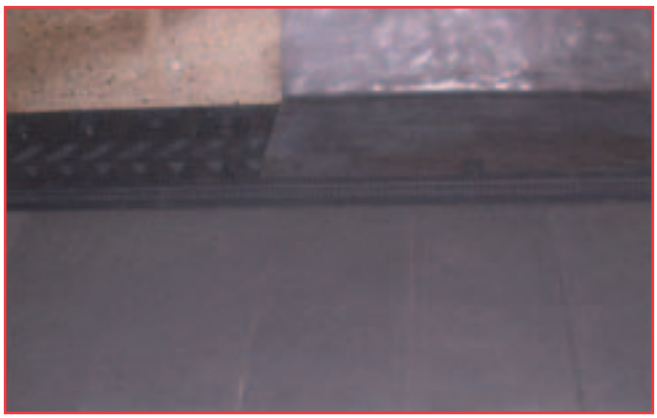


Figure 6

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

Ventilation Terminals

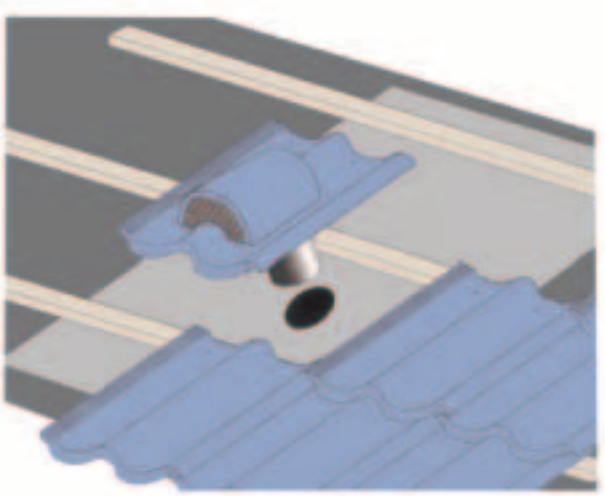
Concrete Tile Ventilation Terminals

Russvent Concrete Tile Vent Terminals are suitable for roofspace ventilation, mechanical extract systems and soil vent pipes.

- Compatible with all main tile profiles.
- Fixed in the same manner as the main tiles.
- PVC-u underlay seal available separately on request.
- Prevents the ingress of birds and large insects.
- Interlocking profiles fitted with 110mm diameter spigot.
- Plain profiles fitted with 75mm diameter spigot.
- Not suitable for hot exhaust gases.

Authority

Concrete tile and hoods conforms with BS EN 490 & 491 :
Roof void ventilation, mechanical ventilation and soil pipe ventilation should be carried out in accordance with the current Building Regulations.
Plain tile profile – Provides 3000mm^2 free ventilation area.
Interlocking tile profiles – Provides 7000mm^2 free ventilation area.
Available in the full range of colours and tile profiles.



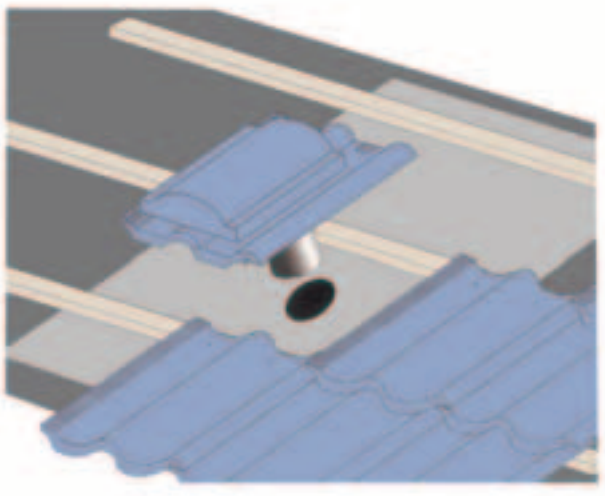
75mm diameter Flexi Pipe

110mm diameter Flexi Pipe

PVC-u Tile Ventilation Terminals

Russvent PVC-u Tile Vent Terminals are designed for both ventilation of the roof space and for use with soil and vent pipe or mechanical extract systems.

- Compatible with both Plain and interlocking profiles.
- Prevents the ingress of birds and large insects.
- Available with or without spigot dependant on application.
- PVC-u underlay seal available on request.
- High Free Flow area: Plain Tiles 6250mm^2
- Interlocking Profiles 20000mm^2
- Not suitable for hot exhaust gases
- Tile Vent Terminal does not have a spigot fitted.
- UB12 In-LineVent Terminal (suitable for interlocking profiles, not shown) provides 6500mm^2 free flow area.



Gas Ventilation Ridge Terminals

The Russell low resistance Gas Vent Ridge terminal is for use on duo pitched roofs and it is manufactured in the Universal Angle and Half Round ridge profiles. It is compatible with wet bedded ridge or the Russell Dry Ridge System.

Authority

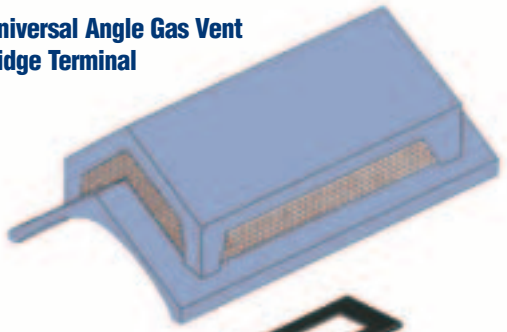
The Russell Gas Vent Ridge terminal is suitable for flues and air supply for domestic gas appliances of rated input not exceeding 60Kw.

Provides Free Vent area 12170mm^2

Guidance Notes

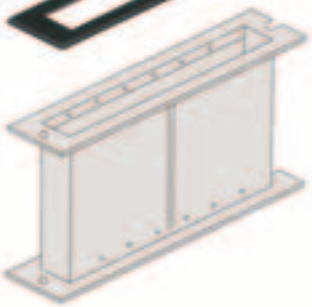
- When using the Russell Gas Vent Ridge terminal with Russell Ventilated Dry Ridge system, a 3m non-ventilated pack is required to be fitted min. 600mm either side of the unit to prevent exhaust gases from entering the roof space.
- If a ridge board is fitted it should be cut away for a length of 400mm and adequate trimmers provided for the rafters.
- Top tiling batten to be kept at least 25mm from the extension piece and roofing felt cut back to suit.
- The extension piece is connected to the terminal with nuts and washers provided, with the sealing gasket placed between the terminal and extension piece.

Universal Angle Gas Vent Ridge Terminal



Sealing Gasket

Extension piece

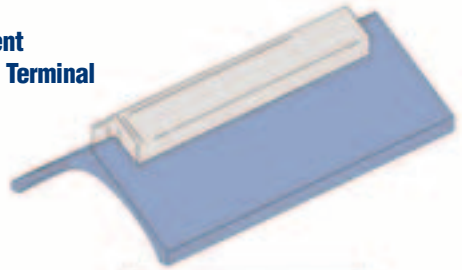


Ridge Ventilation Terminals

The Russell Ridge Ventilation Terminal is a means of ventilating the roof space at a high level or venting a soil vent pipe or mechanical extract. The cowl prevents snow or wind driven rain entering the unit. If a ridge board is fitted it should be cut back for the length of 400mm and trimmed. The underlay is cut to fit the PVC-u insert. When fitted, ensure it is at least 600mm away from any gas vent terminals or outlets. It can be used with an adaptor and flexible pipe (supplied separately) to terminate a soil and vent pipe.

- Manufactured in Universal Angle, Half Round and Multi Ridge tile profiles.
- Each unit provides 8770mm^2 free ventilation area.
- To meet the requirement of 5000mm^2 (equivalent of a continuous 5mm gap) free ventilation area per metre run of ridge the unit should be spaced at max. 1.75m c/c
- Not suitable for hot exhaust gases

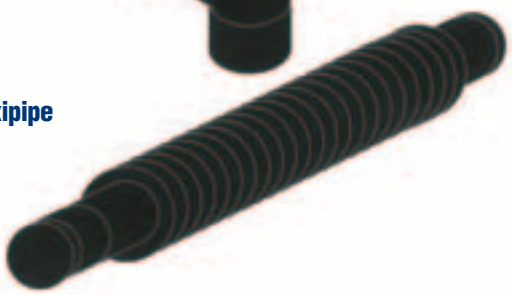
Air Vent Ridge Terminal



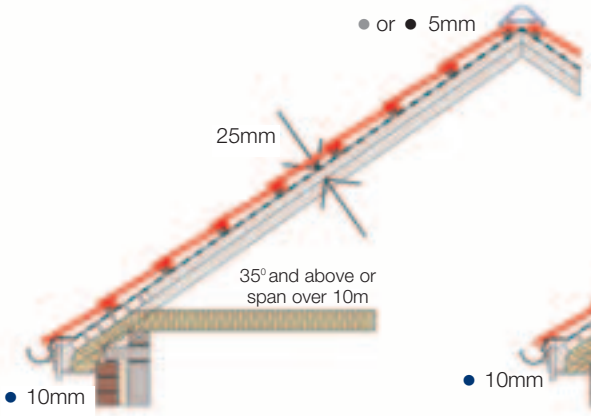
PVC-u Underlay insert

Adaptor

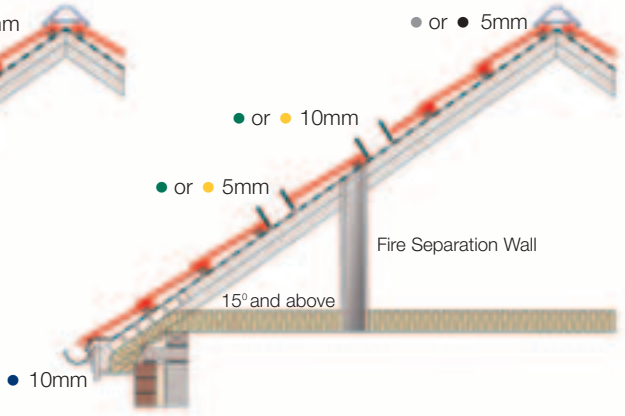
Flexipipe



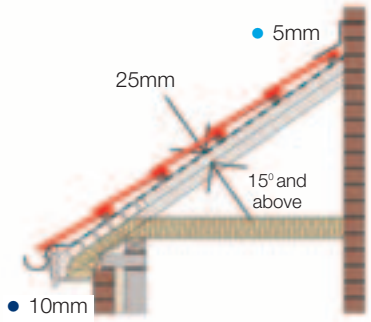
Typical Details



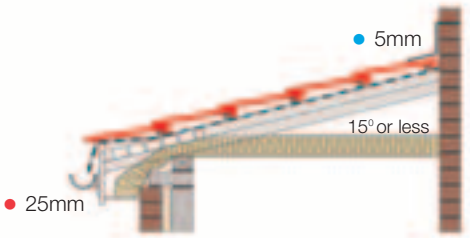
Cold roof construction duo pitch



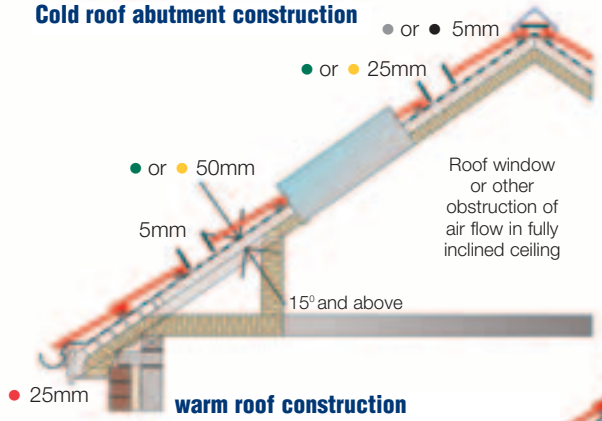
Cold roof construction



Cold roof abutment construction

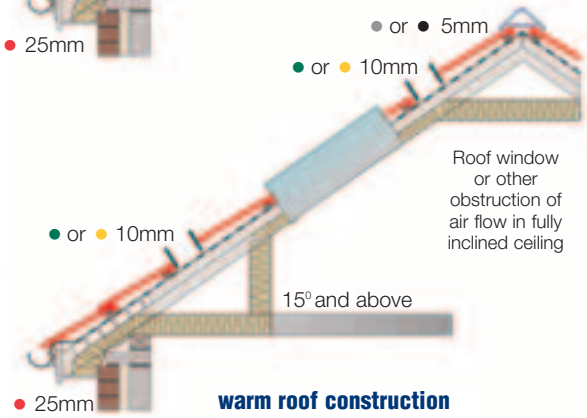


Cold roof abutment construction



warm roof construction

warm roof construction



warm roof construction

Suggested products to meet roof space ventilation are:

- Russell Eaves Ventilation System
- Russell Eaves Ventilation System with Over Fascia Vent clipped together in the vertical
- Russell Dry Ventilated Ridge System
- Russell Concrete Tile Ventilation Terminals
- Russvent PVC-u Tile Ventilation Terminals
- Russell Abutment Ventilation System
- Russell Ridge Ventilation Terminals

Dimensions stated in mm relate to the opening per metre run of eaves, ridge, abutment etc. A continuous opening of 10mm corresponds to ventilation area equivalent to 10,000mm2 per metre. The above roof sections provide typical guidance on requirements and interpret the Building Regulations 1991 (as amended 1994) and recommendations given in BS 5250:1. For further advice and technical information, please contact the Technical Department.

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