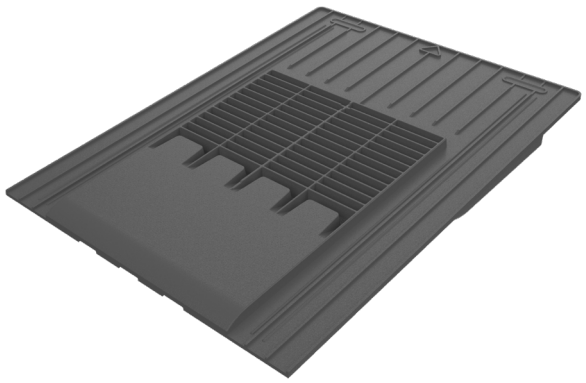
INVENTIVE

Roof ventilation solutions

INSTALLATION GUIDE

Inline Slate Vent (RTV-IS2)



RTV-IS2

BS EN 490:2011 Concrete roofing tiles and fittings for roof covering and wall cladding, product specifications (+A1:2017).

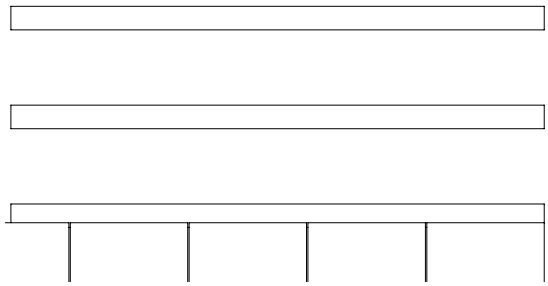
BS 5534:2014 Slating and tiling for pitched roofs and vertical cladding – code of practice (+A2:2018).

BS 5250: 2021 Management of moisture in buildings – Code of practice.

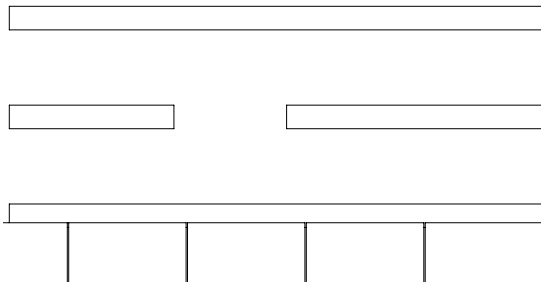
Inline Slate Vent to enable ventilation directly into a roof space or connect to a ducted ventilation system.

Installation Steps | 250 (W) x 500mm (H) slates

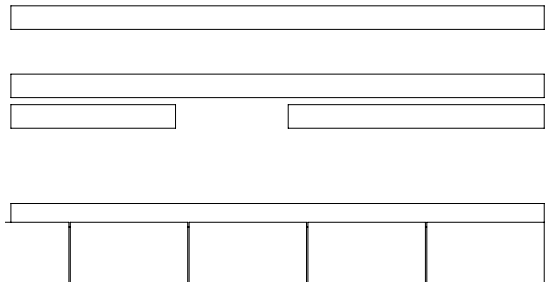
For other non-standard slate sizes follow the installation steps shown and modify the cut dimensions as required to suit the required slate size.



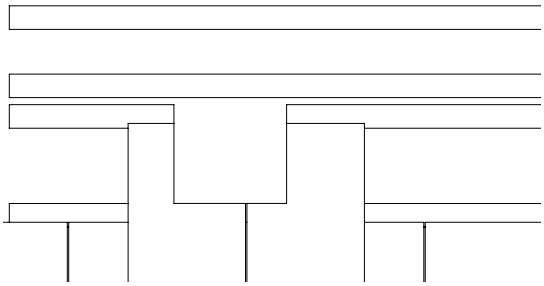
1. Install the slates up to the area where the slate vent is required.



2. Mark and cut a 250mm section to be removed from the batten above the vent position.



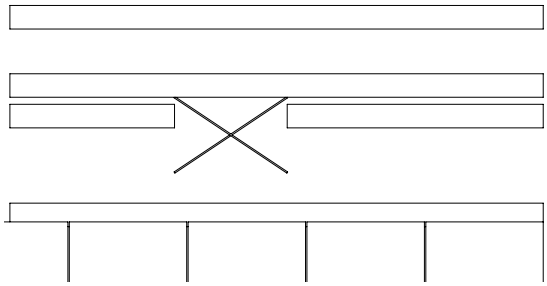
3. Now fit an additional support batten above with a 15mm gap between the two battens. Use a piece of batten long enough to be supported by at least two rafters below, then nail it into position.



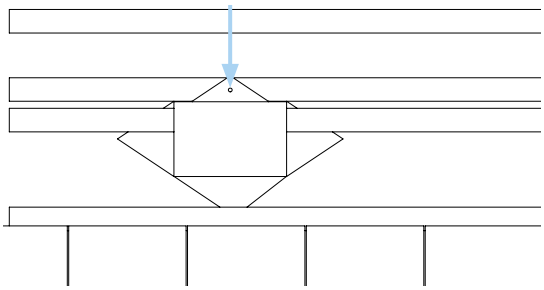
4. Position the two lower slates, mark and cut both slates as shown then remove them to one side.

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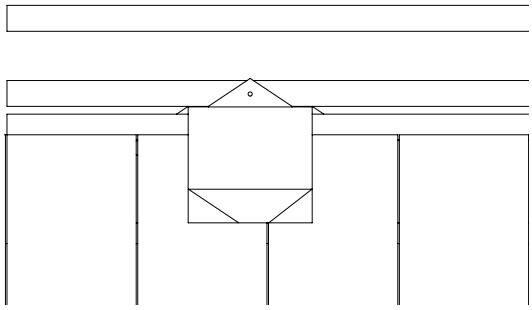
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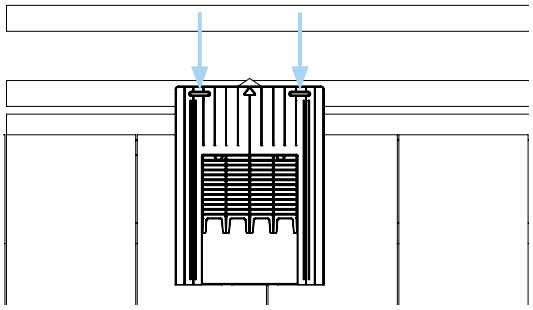
5. Mark out a rectangular area on the underlay starting just below the additional support batten 240mm (W) x 160mm (H). Then mark a cross shape through the centre of the rectangular area.



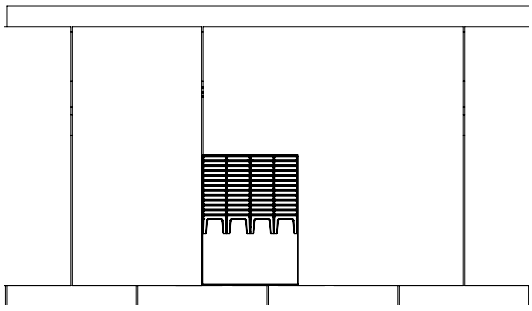
6. Cut along the diagonal cross shape lines and fold back the triangular flaps of the underlay to show the rectangular opening. Now fold the top tab tight against the support batten and secure in place with a nail or staple.



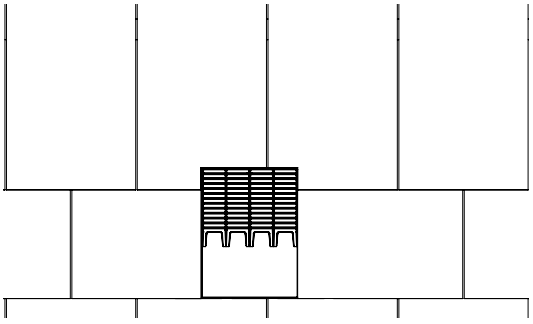
7. Replace the lower slates, then insert the slate vent through the hole in the underlay and up against the batten. Ensure that the base of the vent passes through fully without snagging the edges of the underlay.



8. Use slate fixing nails to secure the slate vent to the batten through the two slotted fixing points shown.



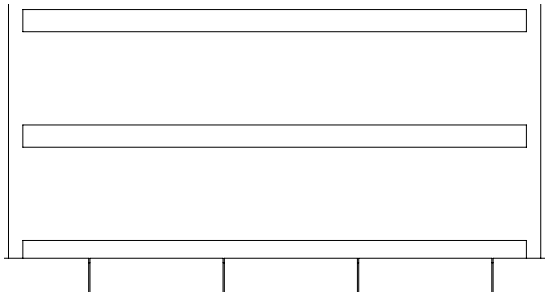
9. Fit the slates on the same course as the vent using a whole slate on the left side of the vent and a double slate on the right side - cut to match the shape of the grille section. These two slates must be laid to overlap the edges of the vent and butt up to the raised grille section.



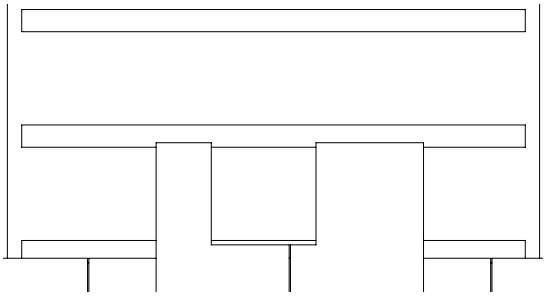
10. Continue to fit the slates on the course above the slate vent. The two slates above the vent should be trimmed as required to match the shape of the slate vent grille. Then continue fitting the courses above as normal.

Installation Steps | 300 (W) x 600mm (H) slates

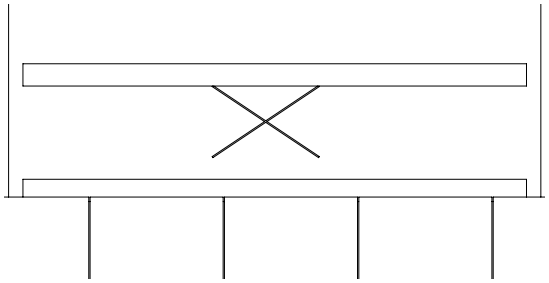
For other non-standard slate sizes follow the installation steps shown and modify the cut dimensions as required to suit the required slate size.



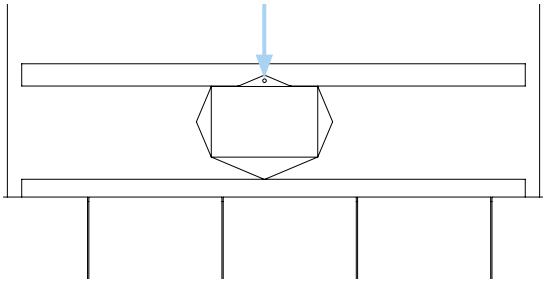
1. Install the slates up to the area where the slate vent is required.



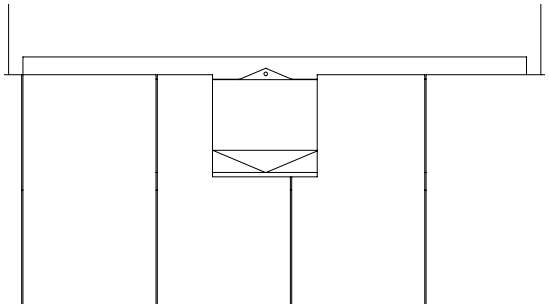
2. Position the two lower slates, mark and cut both slates as shown then remove them to one side.



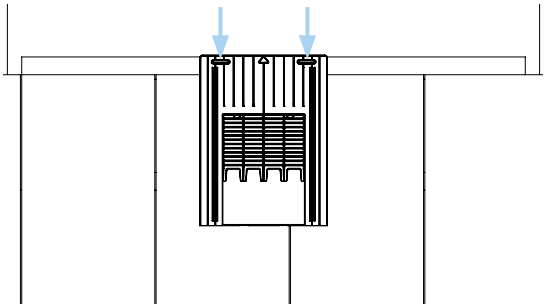
3. Mark out a rectangular area on the underlay starting just below the batten 250mm (W) x 152mm (H). Then mark a cross shape through the centre of the rectangular area.



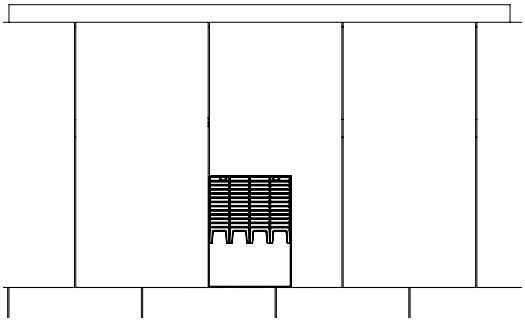
4. Cut along the diagonal cross shape lines then fold back the triangular flaps of the underlay to show the rectangular opening. Now fold the top tab tight against the batten and secure in place with a nail or staple.



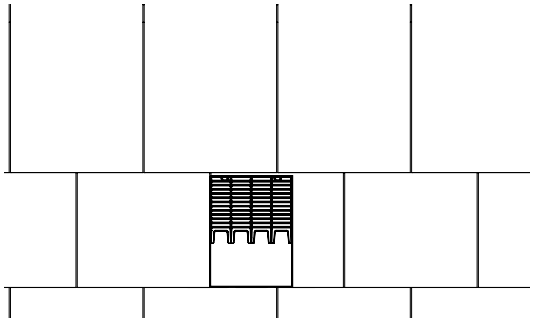
5. Replace the lower slates then insert the slate vent through the hole in the underlay and up against the batten. Ensure that the base of the vent passes through fully without snagging the edges of the underlay.



6. Use slate fixing nails to secure the slate vent to the batten through the two slotted fixing points shown.



7. Fit the slates on the same course as the vent using a whole slate on the left side of the vent and a whole slate on the right side - cut to match the shape of the grille section. These two slates must be laid to overlap the edges of the vent and butt up to the raised grille section.



8. Continue to fit the slates on the course above the slate vent. The two slates above the vent should be trimmed as required to match the shape of the slate vent grille.

Slate Vent Spacing Requirements

Without internal grille fitted (Free Vent Area 13,293mm²)

- To achieve equivalent continuous opening of 5mm – space the vents at 2.66m.
- To achieve equivalent continuous opening of 10mm – space the vents at 1.33m.
- To achieve equivalent continuous opening of 25mm – space the vents at 0.53m.

With internal grille fitted (Free Vent Area 9,183mm²)

- To achieve equivalent continuous opening of 5mm – space the vents at 1.84m.
- To achieve equivalent continuous opening of 10mm – space the vents at 0.92m.
- To achieve equivalent continuous opening of 25mm – space the vents at 0.37m.

Slate Vent Installation Requirements

- The vent is compatible with roof pitches of 22.5° or above.
- If the vent is to be placed at high level it must be situated below at least one full course of slates.
- If the vent is to be placed at low level it must be situated above at least one full course of slates.
- Free Vent Area:
  - 13,293mm² (without internal grille fitted)
  - 9,183mm² (with internal grille fitted)
  - 8,494mm² (with RTV-ADIS2 duct adapter fitted)
- The internal grille must be removed before fitting the duct adapter to the vent.
- When connecting to ductwork it is recommended to apply silicon sealant between the vent and the duct adapter to minimise any air leakage.
- Any ductwork that is connected to the vent running through the loft or other unheated space must be fully insulated to ensure that condensation does not collect inside.
- The vent must not be used to provide exhaust for hot gases.
- The vent must not be placed directly next to any hot parts of the roof.

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