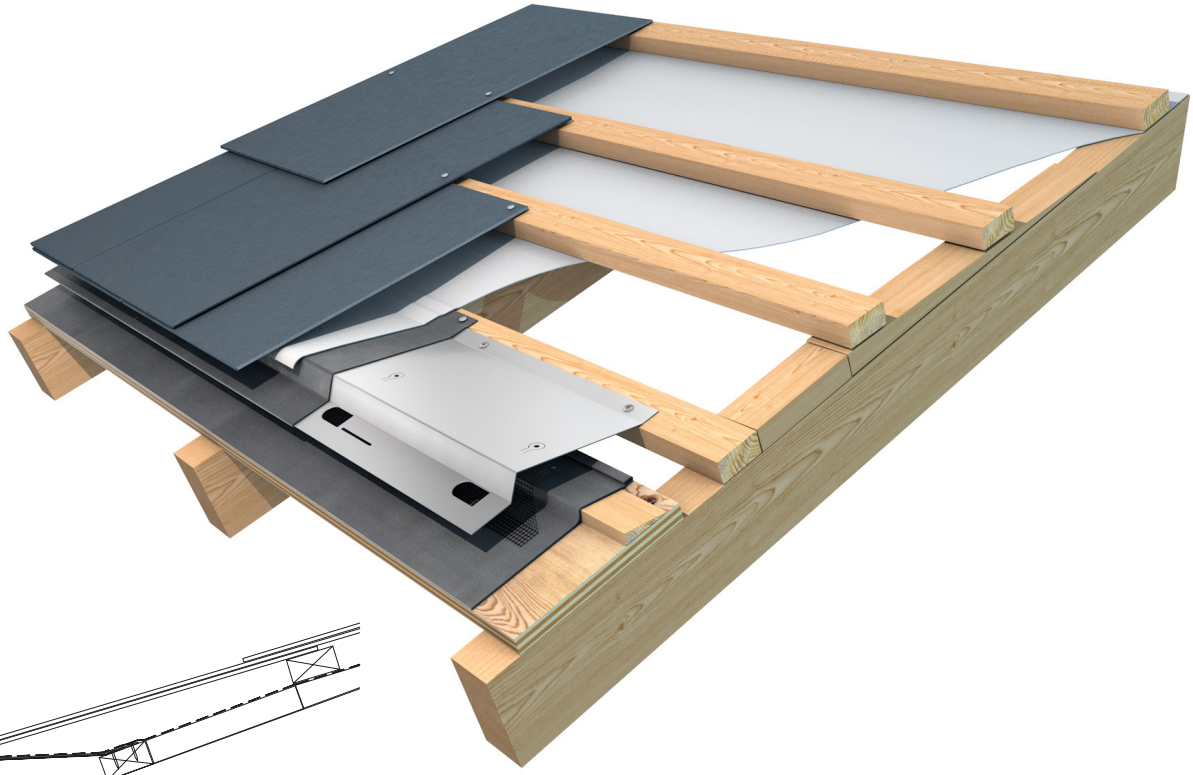
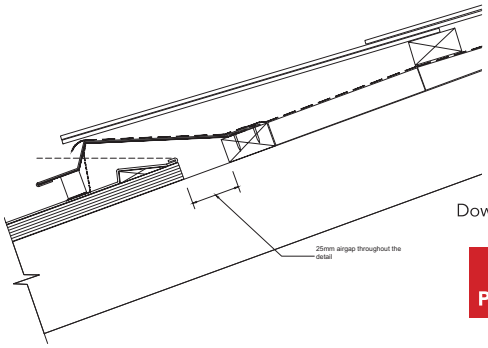
Airtrak LB20
Layboard Ventilator
for slated roof pitches of 20 to 30°





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Description
The LB20 Layboard Ventilator is for slated roofs from pitch 20° and over. The ventilator introduces 25mm ventilation over the layboard into the roof void and acts as a rest for the eaves course. the LB20 requires a lead cover flashing and should be laid in a line parallel to the slate coursing.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh.

Ventilation
25mm continuous air gap equivalent.

Dimensions
OA girth 240mm, length 1000mm

Compatibility
For use at the junction of a slated roof with a leadlined gutter or flat roof. For roof pitches of 20° and above.

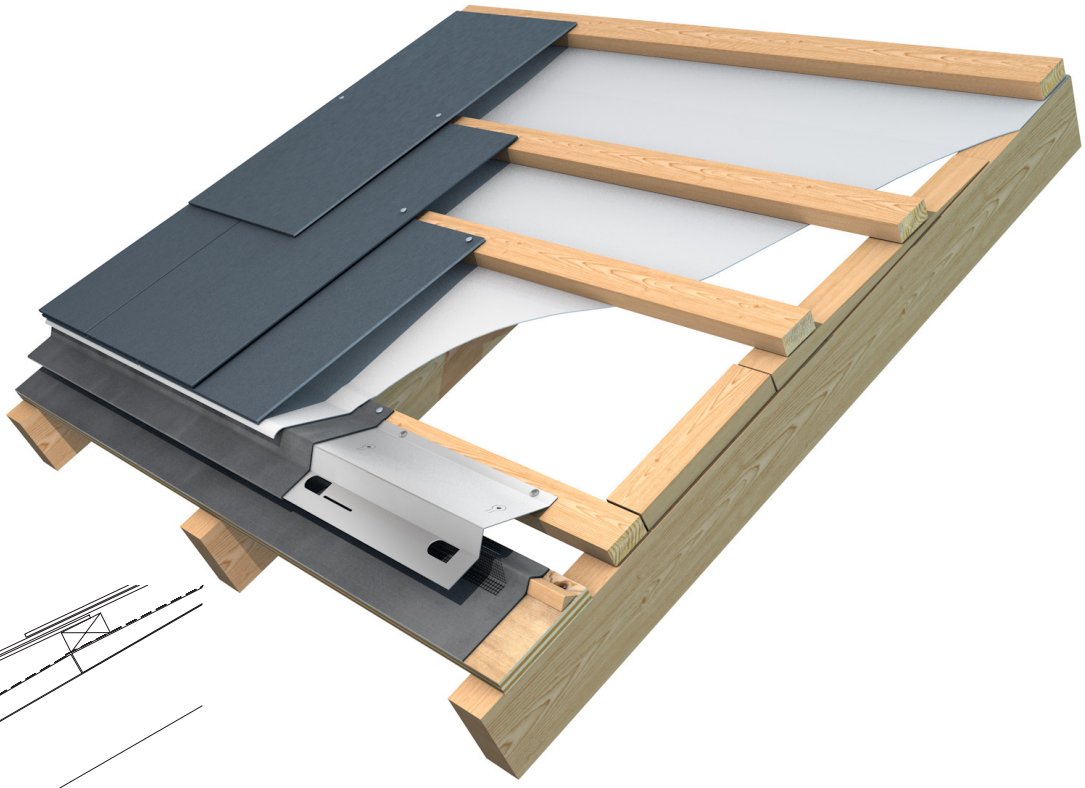
Installation
The LB20 is fitted to a 25mm batten running parallel with the layboard and the slate coursing battens. Note that this ventilator should be installed in a straight line which remains parallel to the slating battens. If the ventilator is installed so that it follows the rake of the gutter sole or steps up as the gutter widens, the kick produced by the ventilator can cause the slates to sit unevenly. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips. The LB20 should be covered with a code 4 or 5 lead flashing which is nailed to the batten and welted around the bottom edge of the ventilator. To minimise the kick effect that the LB20 has on the slates at the eaves, a 25mm sprocket can be used under the lower roofing battens as shown in the section on this page.

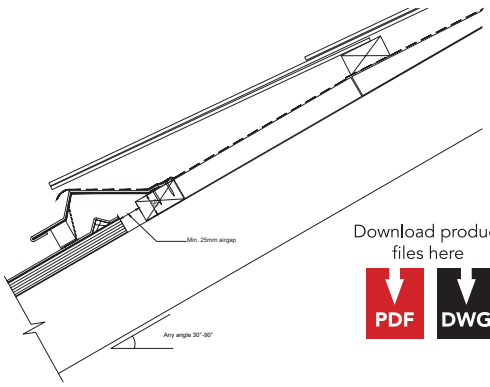
The roofing membrane should be routed over the ventilator before the slating is commenced. Some support for the roofing membrane may be required to prevent backfall and ponding occuring. Ensure that a minimum of 25mm airflow is achieved throughout the detail.

Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak LB20 Layboard Ventilator for slated roof pitch of 20° and over
  Supplied by Nicholson. Tel 0845 0098 980.

Airtrak LB30
Layboard Ventilator
for roof pitches of 30° and over





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Description
The LB30 Layboard Ventilator is for slated or tiled roofs from pitch 30° and over. The ventilator introduces 25mm ventilation over the layboard into the roof void and acts as a rest for the eaves course. the LB30 requires a lead cover flashing and should be laid in a line parallel to the slate coursing.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh.

Ventilation
25mm continuous air gap equivalent.

Dimensions
OA girth 180mm, length 1000mm

Compatibility
For use at the junction of a slated roof with a leadlined gutter or flat roof. For roof pitches of 30° and above.

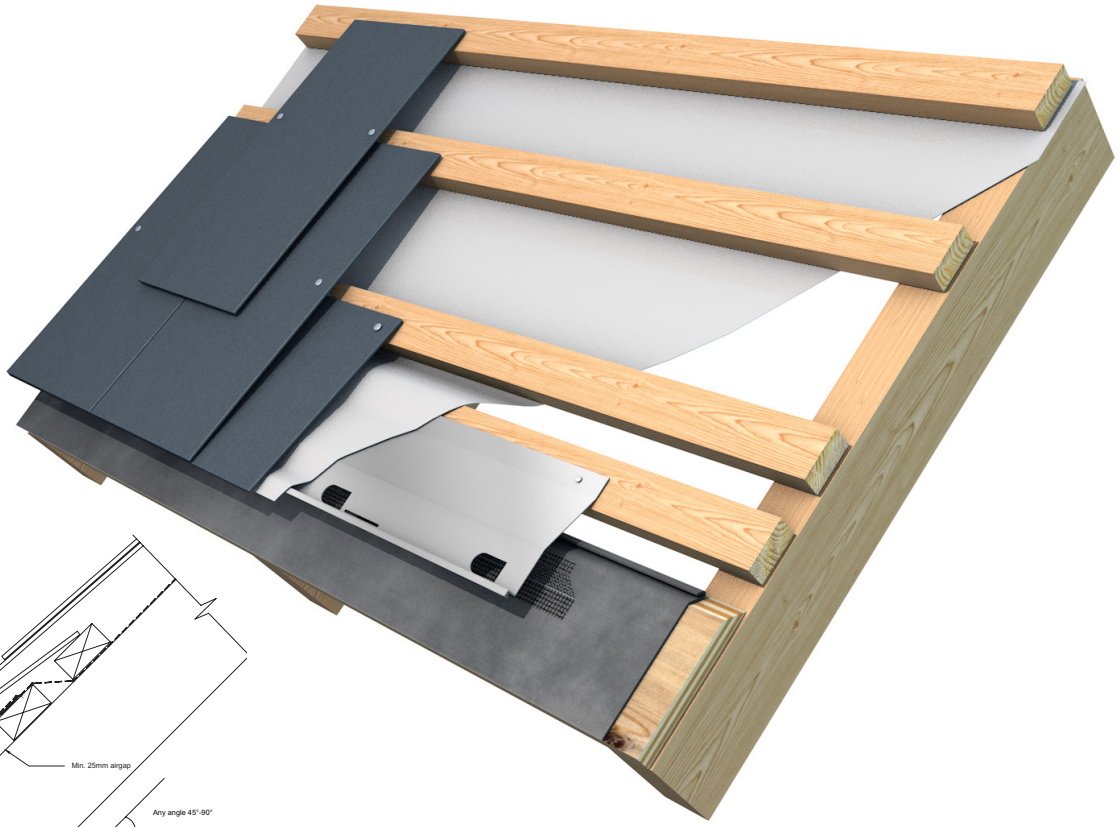
Installation
The LB30 is fitted to a 25mm batten running parallel with the layboard and the slate coursing battens. Note that this ventilator should be installed in a straight line which remains parallel to the slating battens. Any devation will cause the slates to sit unevenly. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips.The LB30 should be covered with a code 4 or 5 lead flashing which is nailed to the batten and welted around the bottom edge of the ventilator. To minimise the kick effect that the LB30 has on the slates at the eaves, a 25mm sprocket can be used under the lower roofing battens as shown in the section on this page.

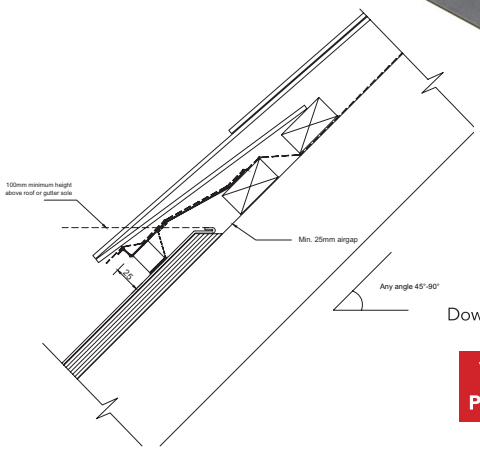
The roofing membrane should be routed over the ventilator before the slating is commenced. Some support for the roofing membrane may be required to prevent backfall and ponding occuring. Ensure that a minimum of 25mm airflow is achieved throughout the detail.

Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak LB30 Layboard Ventilator for slated roof pitch of 30° and over
  Supplied by Nicholson. Tel 0845 0098 980.

Airtrak LB45
Layboard Ventilator
for roof pitches of 45° and over





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Description
The LB45 Layboard Ventilator is for slated and tiled roofs and can be used to introduce ventilation over the layboard into the roof void. It acts as a rest for the eaves course and provides ventilation with minimal visual effect.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh.

Ventilation
25mm continuous air gap equivalent.

Dimensions
OA girth 145mm, length 1000mm

Compatibility
For use at the junction of a slated or tiled roof with a leadlined gutter or flat roof. For roof pitches of 45° and above.

Installation
The LB45 is fitted to a 25mm batten running parallel with the layboard and the slate coursing battens. Note that this ventilator should be installed in a straight line which remains parallel to the slating battens. Any devation will cause the slates to sit unevenly. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips.

The roofing membrane should be routed over the ventilator before the slating is commenced. Some support for the roofing membrane may be required to prevent backfall and ponding occuring. Ensure that a minimum of 25mm airflow is achieved throughout the detail.

Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak LB45 Layboard Ventilator for tiled and slated roof pitches of 45° and over
  Supplied by Nicholson. Tel 0845 0098 980.

Airtrak RTV
Ridge Tile Ventilator

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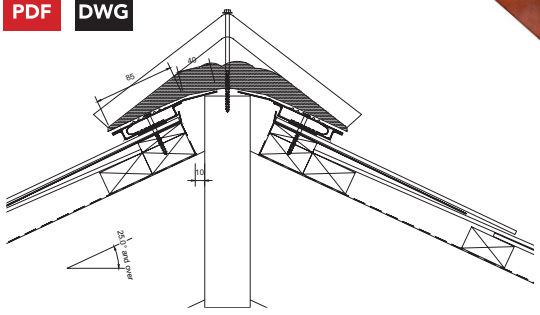

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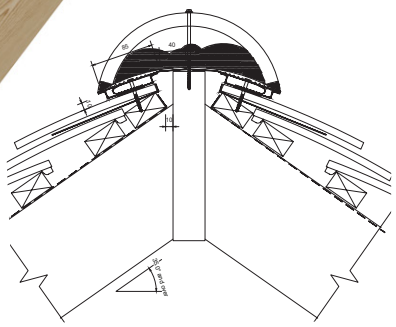


Description
The RTV Ridge Tile Ventilator enables the ventilation of most ridge tiles using traditional wet laid methods. This is especially useful where the existing ridge needs to be retained or on heritage properties where a dry ridge system may be inappropriate.

The RTV has a certified and storm rated weather strip to the underside. This serves to check wind driven rain on face of the tile or slates and also to seal any fixings through into the top batten. An expanded stainless steel mesh on the face of the RTV provides a key for the mortar bedded ridge tiles.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh, stainless steel expanded metal lath, neoprene closed cell expanded foam weather strip.

Ventilation
5mm continuous air gap equivalent.

Dimensions
OA girth 125mm, length 1000mm.

Compatibility
Providing ventilation to a tiled or slated roof ridge at a pitch of over 25° in conjunction with the Airtrak LPS Low Pitch Soaker.

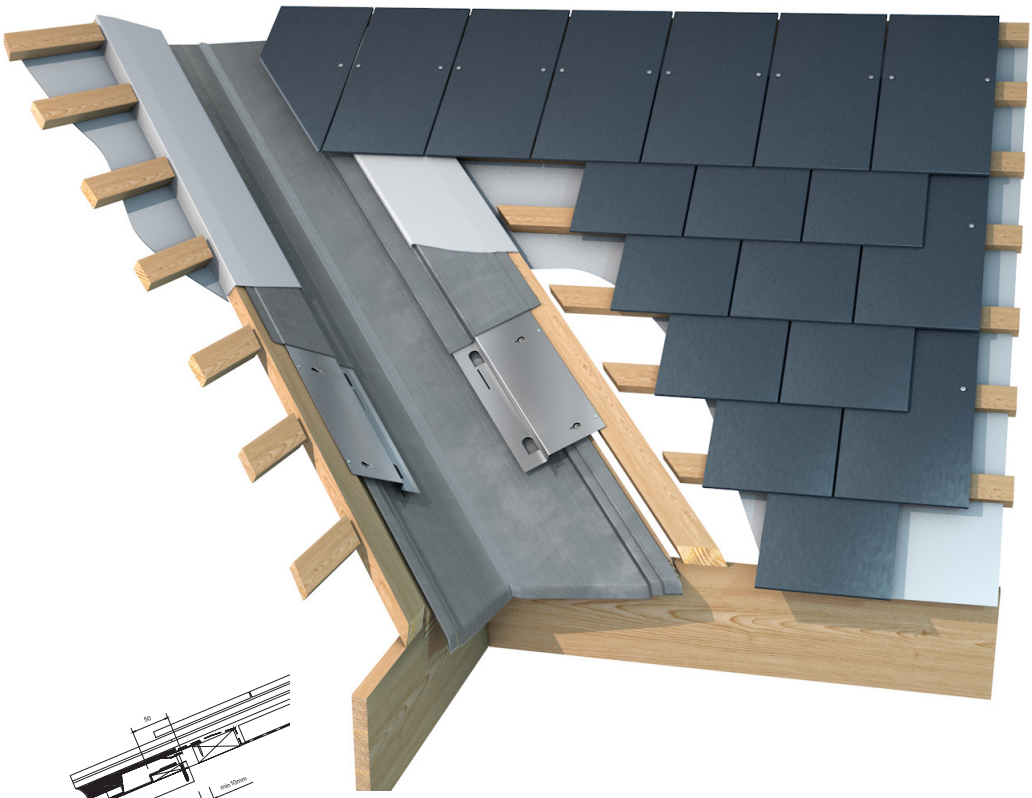
Installation
The roofing membrane under the slates or tiling should be turned up the back of the topmost batten to reveal a 10mm air gap into the ventilated roof void. The Airtrak LPS Low Pitch Soaker is installed underneath the top course of slates or tiles with the 25mm bend facing upwards. The top course of slates or tiles are then fixed in postion through the LPS. The 25mm section of the LPS is the welted over the top of the slates or tiles to form a welted return to catch any wind driven rain on the surface of the slates or tiles.

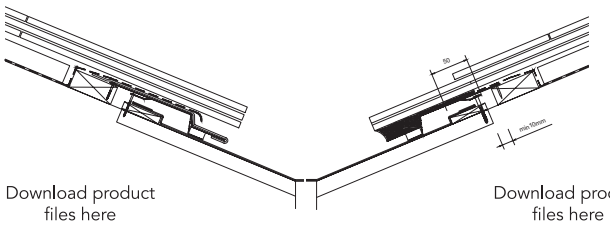
The RTV is positioned over the top row of tiles or slates to suit the size of ridge tile being used. The fixing tab can bent to the correct angle allowing it to be secured with non ferrous fixings into the ridge. Further fixing should be made into the top batten using the holes provided in the RTV and drilling through the slates or tiles. The ridge tiles are then cemented into position in the traditional way.

Severe exposure
The Airtrak RTV may not be suitable for situations of severe exposure.

To specify
- Airtrak RTV Ridge Tile Ventilator
- Airtrak LPS Low Pitch Soaker for tiled roofing
- Airtrak LPS225 Low Pitch Soaker for slated roofing
  Supplied by Nicholson. Tel 0845 0098 980.

Airtrak PV10
Airtrak PV10-M
Pitched Valley Ventilator





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Description
The PV10 and PV10M Pitched Valley Ventilators provide a 10mm continuous ventilation detail to a pitched valley between two roof pitches. The PV10M has an additional expanded metal mesh element for where the verge of the valley needs to be bedded on cement.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh, stainless steel expanded metal mesh.

Ventilation
10mm continuous air gap equivalent.

Dimensions
OA girth 170mm, length 1000mm.

Compatibility
For providing ventilation in a tiled or slated pitched valley down to 40° pitch. Lower pitches may be accommodated depending upon using wider slates or tiles if available.

Installation
The valley boards must be laid between the rafters and the valley lining should terminate over a 10mm water check batten. The PV Ventilator is fitted to a 25mm batten running parallel to the valley but set back by 10mm to allow the ventilation into the rafter void. Lengths should be butted together. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips.

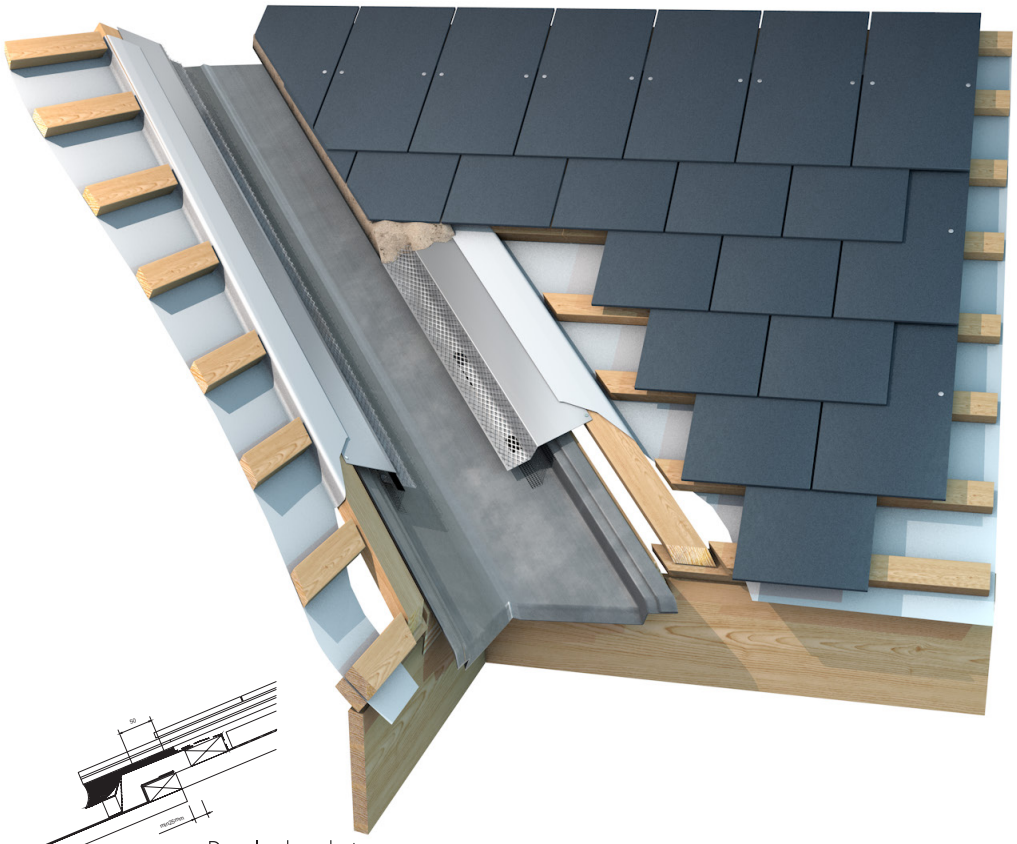
For the PV10 Ventilator a code 4 or 5 lead flashing is dressed to the ventilator welting around the exposed edge and being nailed to the timber batten. Ensure that the roofing battens are stopped short of the valley batten by 10mm to allow drainage. The roofing membrane should be brought out over the ventilator and trimmed back after tiling or slating. For the PV10-M Ventilator, the valley verge tiling is bedded on cement on the expanded metal mesh.

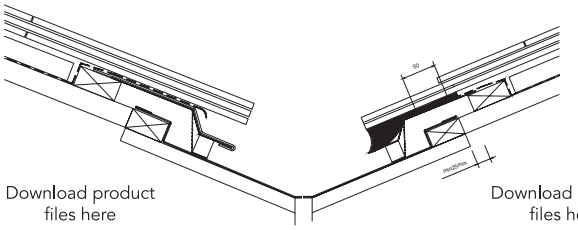
Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak PV10 Pitched Valley Ventilator
- Airtrak PV10-M Pitched Valley Ventilator with mesh for a bedded verge

Supplied by Nicholson. Tel 0845 0098 980.

Airtrak PV25
Airtrak PV25-M
Pitched Valley Ventilator





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Description
The PV25 and PV25M Pitched Valley Ventilators provide a 25mm continuous ventilation detail to a pitched valley between two roof pitches. The PV25M has an additional expanded metal mesh element for where the verge of the valley needs to be bedded on cement.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh, stainless steel expanded metal mesh.

Ventilation
25mm continuous air gap equivalent.

Dimensions
OA girth 180mm, length 1000mm.

Compatibility
For providing ventilation in a tiled or slated pitched valley down to 40° pitch. Lower pitches may be accommodated depending upon using wider slates or tiles if available. It should be noted that 25mm counterbattens are required for this product – see sections.

Installation
The valley boards must be laid between the rafters and the valley lining should terminate over a 25mm water check batten. The PV Ventilator is is fitted to a 25mm batten running parallel to the valley but set back by 25mm to allow the ventilation into the rafter void. Lengths should be butted together. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips.

For the PV25-M Ventilator a code 4 or 5 lead flashing is dressed to the ventilator welting around the exposed edge and being nailed to the timber batten. Ensure that the roofing battens are stopped short of the valley batten by 10mm to allow drainage. The roofing membrane should be brought out over the ventilator and trimmed back after tiling or slating.

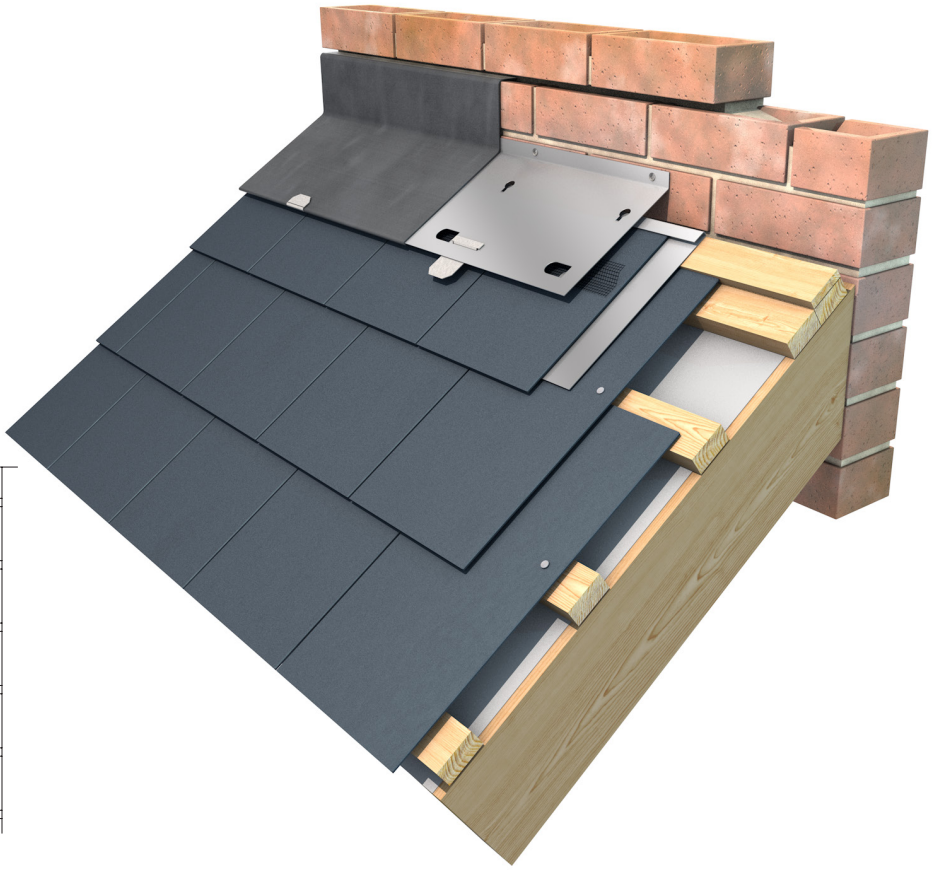
For the PV25-M Ventilator, the valley verge tiling is bedded on cement on the expanded metal mesh.

Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak PV25 Pitched Valley Ventilator
- Airtrak PV25-M Pitched Valley Ventilator with mesh for a bedded verge

Supplied by Nicholson. Tel 0845 0098 980.

Airtrak VA
Ventilated Apron for slated and tiled roofing



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Description
The VA Ventilated Apron is used to introduce ventilation at the head of slated or tiled pitch where it abuts a wall. The stainless steel profile is supplied pre bent to suit the roof pitch and is fixed to the abutment wall and covered with a flashing. To maintain the integrity of the detail as the pitch reduces, the VA Ventilated Apron is used with the LPS Low Pitch Soaker (see page 50).

The VA Ventilated Apron is supplied pre bent to the correct angle which should be advised at the time of order.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh.

Ventilation
10mm continuous air gap equivalent .

Dimensions
Cover to roof pitch
VA200 200mm
VA250 250mm
Ventilator length 1000mm

Compatibility
For use at the junction of a slated or tiled roof with an abutment.

Slate pitch	Model
35 to 65°	VA200
25 to 34°	VA200 + LPS225
20 to 24°	VA250 + LPS225

Tile pitch	Model
45 to 65°	VA200
28 to 44°	VA200 + LPS

Installation
Where necessary, the LPS Low Pitch Soaker is installed underneath the eaves course of the slating. The top edge is welted over the top of the eaves course to provide a check for wind blown rain. The VA Ventilated Apron is is fitted to the abutment wall using non ferrous fixings and extends down over the slates or tiles. Additional secondary fixings should be used in the ventilator to provide resistance to wind uplift. Lengths should be butted together or lapped by 10mm if required. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips. The ventilator should be parallel to the surface of the top slate. A metal flashing should be used to weather the ventilator and chased into the wall above the ventilator. The flashing is dressed down the face of the ventilator and welted around the lower edge. The use of the CF Clipfast Clips is recommended to restrain the flashing from slipping down the face of the ventilator (see page 49).

Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak VA200 Ventilated Apron to suit ____° pitch
- Airtrak VA250 Ventilated Apron to suit ____° pitch
- Airtrak LPS for tiled roofing
- Airtrak LPS225 for slated roofing

Supplied by Nicholson. Tel 0845 0098 980.

Airtrak VA
Ventilated Apron for slated and tiled roofing

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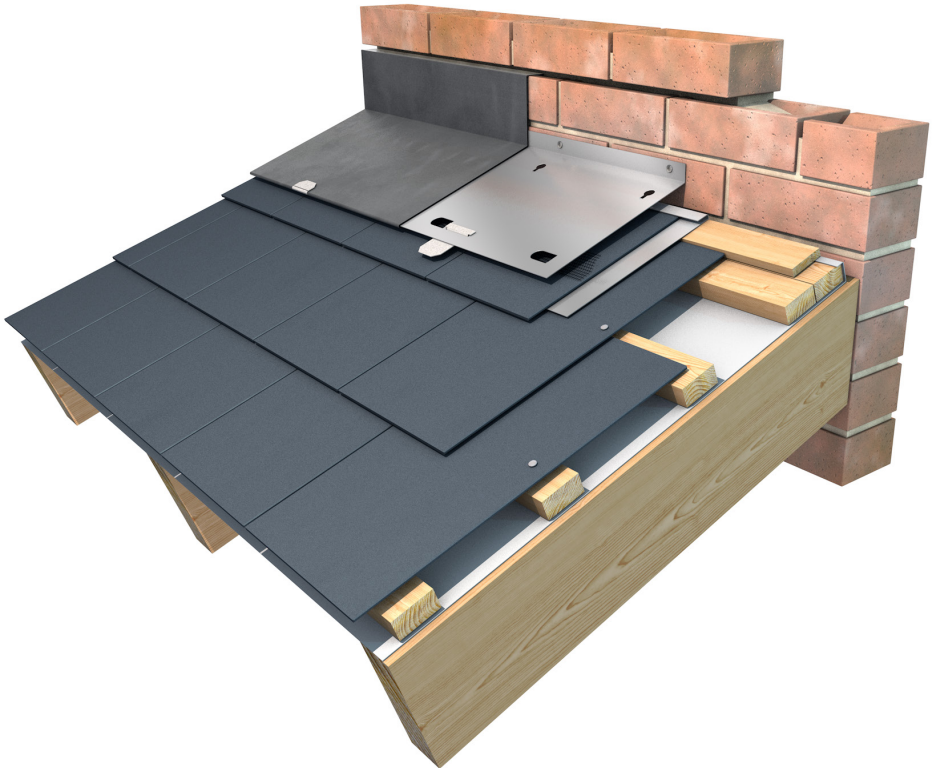

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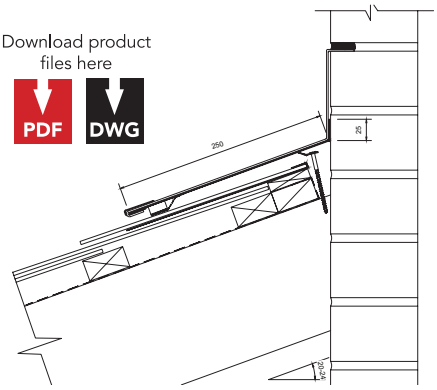

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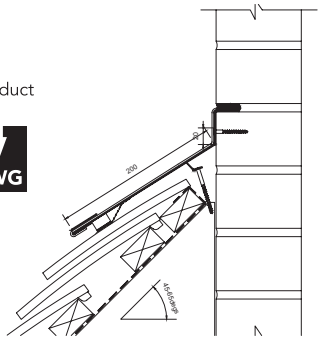

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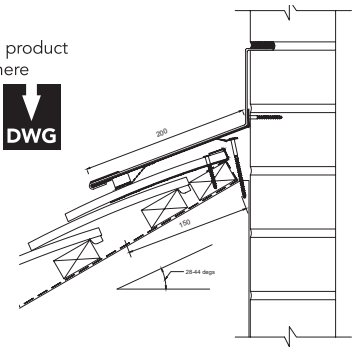
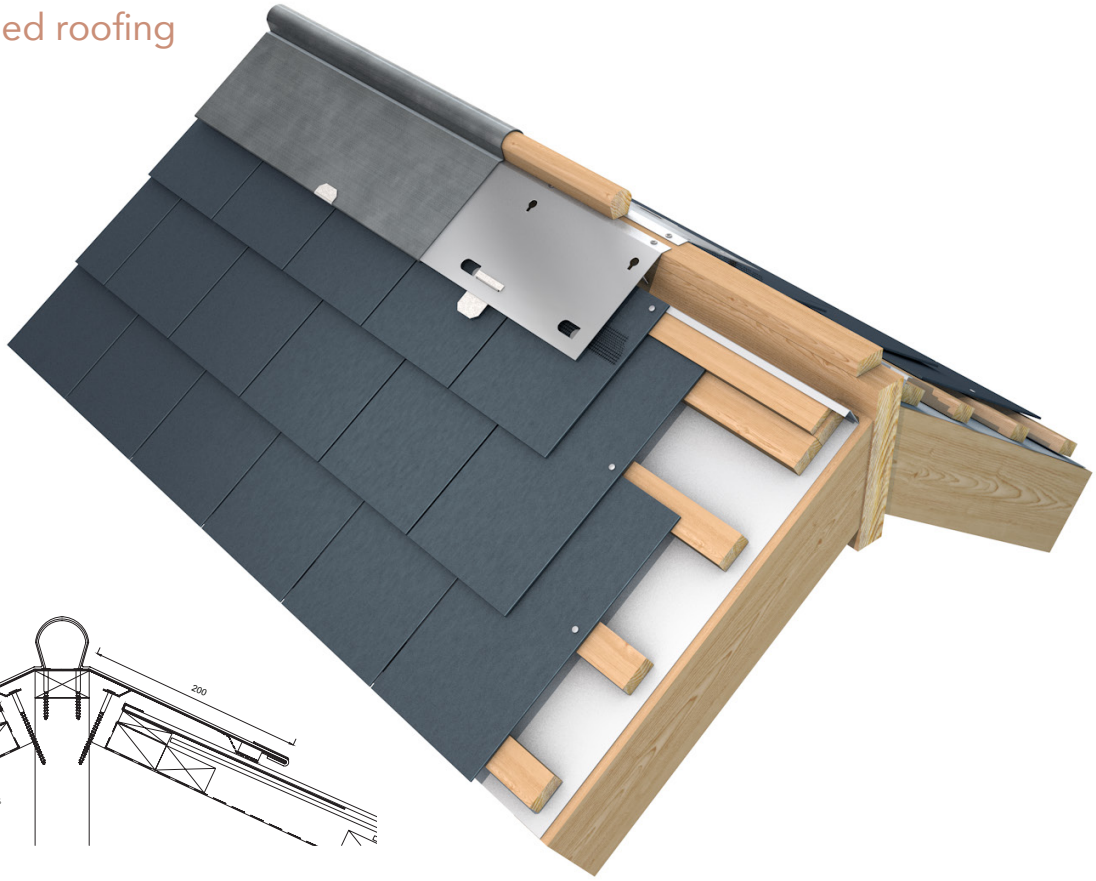


Airtrak VR
Ventilated Ridge
for slated and tiled roofing



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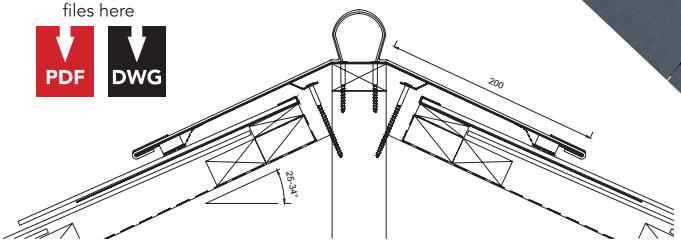


Description
The VR Ventilated Ridge is used to introduce ventilation at the head of slated or tiled pitch where it reaches the ridge. The stainless steel profile is supplied pre bent to suit the roof pitch and is fixed to the ridge timber and and covered with the ridge flashing. To maintain the integrity of the detail as the pitch reduces, the VR Ventilated Ridge is used with the LPS Low Pitch Soaker (see page 50).

Material
0.7mm stainless steel, vinyl coated GRP insect mesh.

Ventilation
10mm continuous air gap equivalent.

Dimensions
Cover to roof pitch
VR200 200mm
VR250 250mm
Ventilator length 1000mm

Compatibility
For use at the junction of a slated or tiled roof to provide ventilation at the ridge.

Slate pitch	Model
35 to 65°	VR200
25 to 34°	VR200 + LPS225
20 to 24°	VR250 + LPS 225

Tiled pitch	Model
45 to 65°	VR200
28 to 44°	VR200 + LPS

Installation
Where necessary, the LPS Low Pitch Soaker is installed underneath the eaves course of the slating or tiling. The top edge is welted over the top of the eaves course to provide a check for wind blown rain. The VR Ventilated Ridge is fitted to the ridge timbers using non ferrous fixings and extends down over the slates or tiles. Additional secondary fixings should be used in the ventilator to provide resistance to wind uplift.

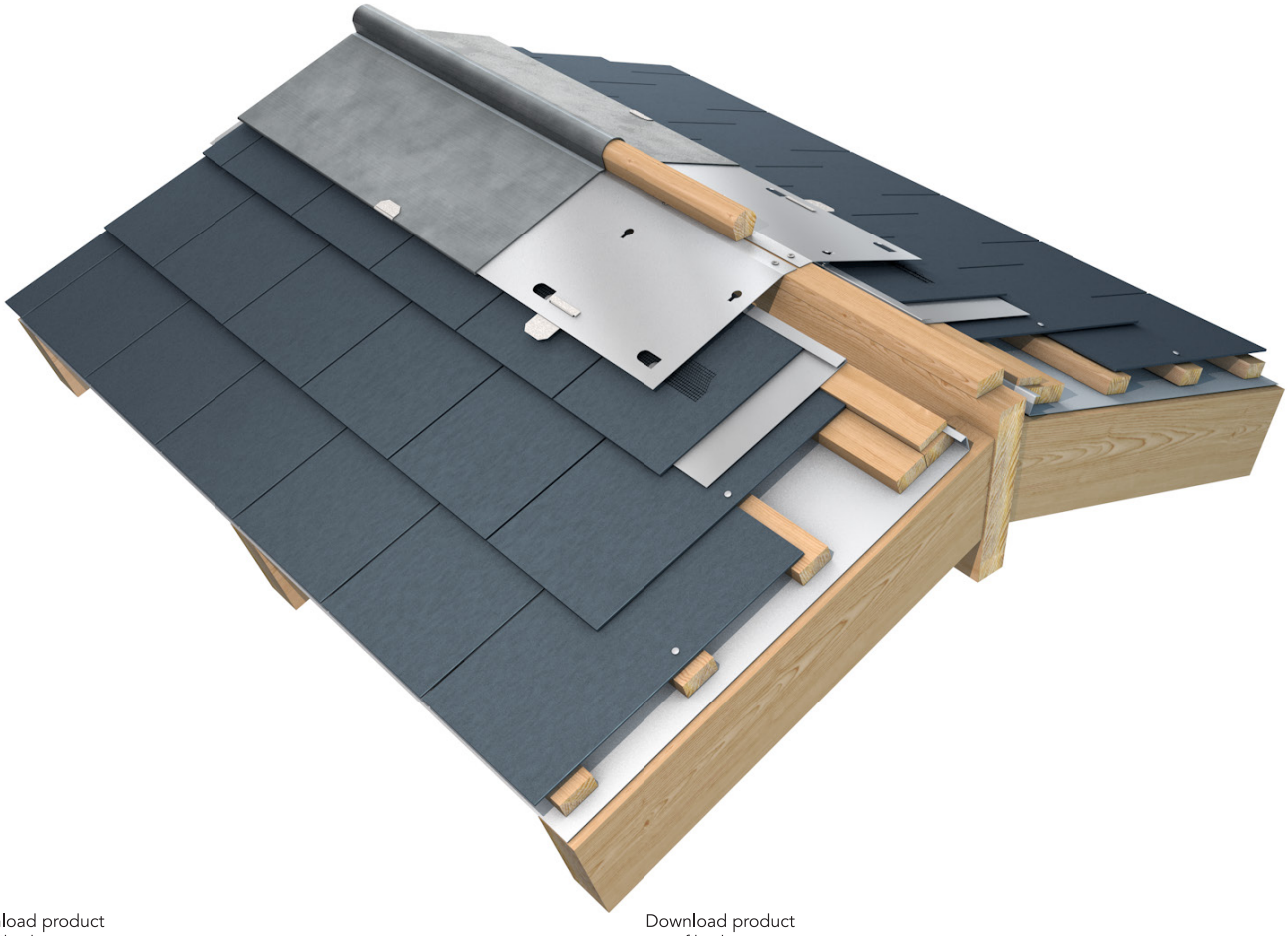
Lengths should be butted together or lapped by 10mm if required. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips. The ventilator should be parallel to the surface of the top slate. A metal flashing should be used to weather the ridge and dressed down over the ventilator and welted around the lower edge. The use of the CF Clipfast Clips is recommended to restrain the flashing from slipping down the face of the ventilator (see page 49).

Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak VR200 Ventilated Ridge to suit ____° pitch
- Airtrak VR250 Ventilated Ridge to suit ____° pitch
- Airtrak LPS for tiled roofing
- Airtrak LPS225 for slated roofing

Supplied by Nicholson. Tel 0845 0098 980.

Airtrak VR
Ventilated Ridge
for slated and tiled roofing



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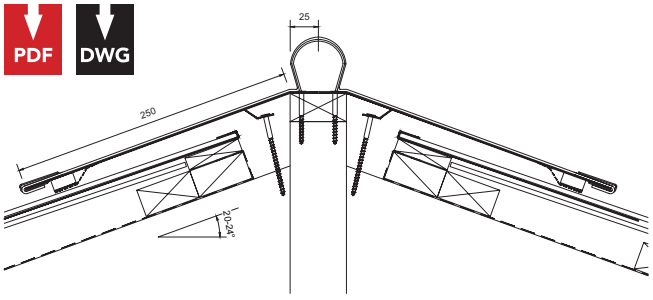

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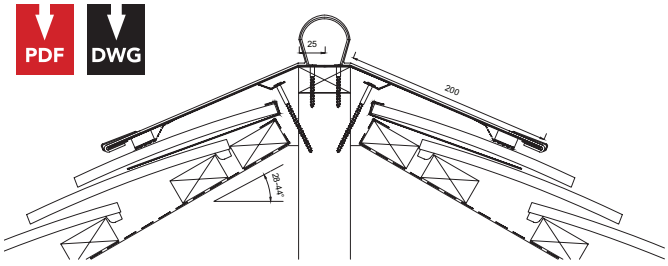

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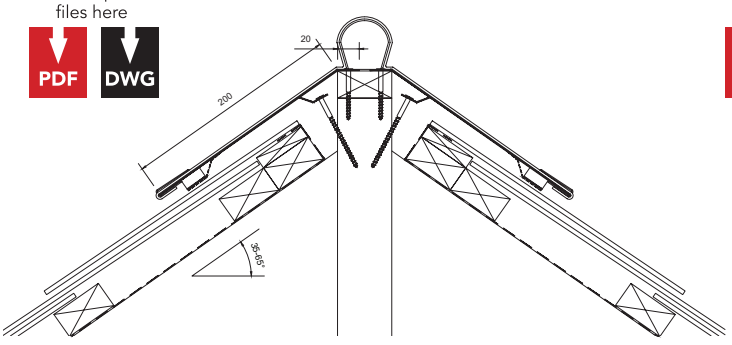

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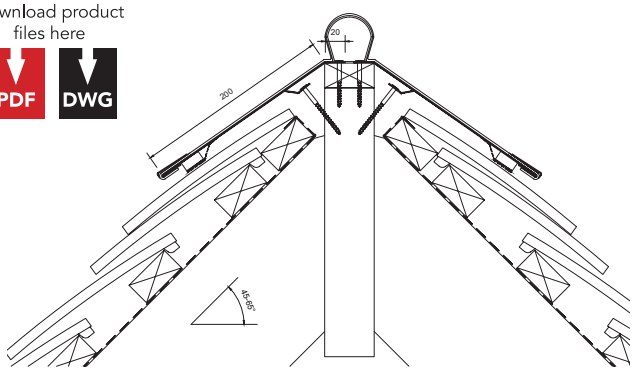

Airtrak F10
Airtrak F25
Fascia Ventilator

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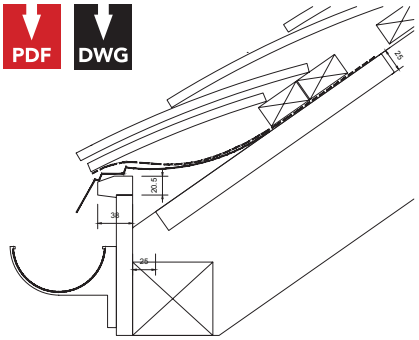

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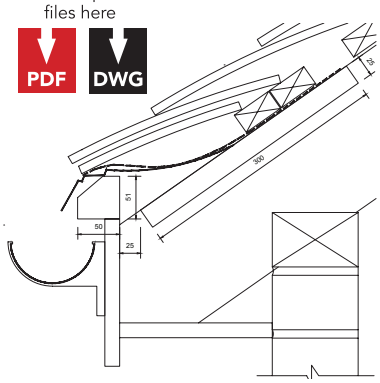


Description
The F10 and F25 Fascia Ventilators provide regulation meeting ventilation to the roof void over the eaves fascia board avoiding unsightly soffit ventilation. They include an integral insect excluder.

Material
Black polypropylene.

Ventilation
F10 10mm continuous ventilation equivalent.
F25 25mm continuous ventilation equivalent.

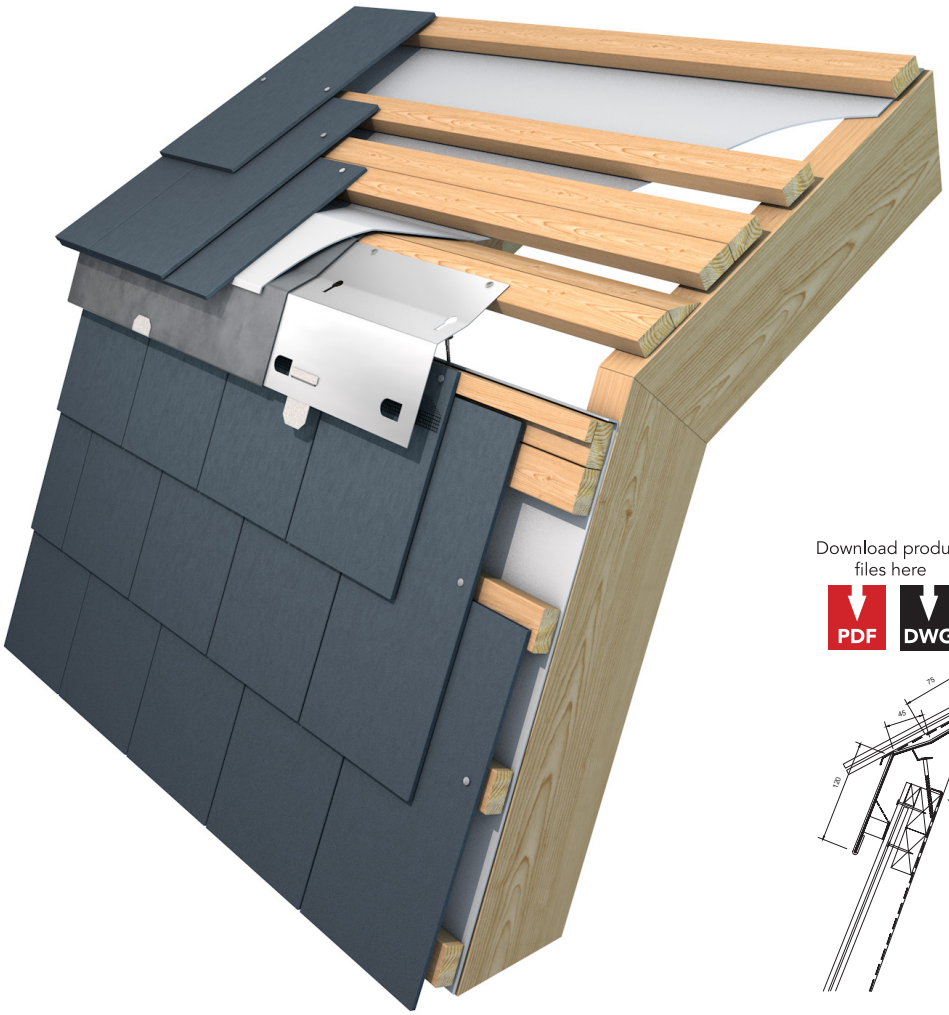
Dimensions
F10 35mm wide x 22mm high x 1000mm long.
F25 50mm wide x 51mm high x 1000mm long.

Compatibility
Use the F10 at the eaves for roof pitches of 16 to 90°.
Use the F25 at the eaves for roof pitches of 1 to 15°or any roof where living accommodation is contained within the roof space.

Installation
The F10 and F25 are fixed to the top of the fascia board using non ferrous nails or screws butting the lengths end to end. It is advisable to provide a support for the roofing felt behind the ventilator to avoid it sagging and blocking the airpath into the roof void. The Airtrak EC Eaves carrier may be used for this purpose.

To specify
- Airtrak F10 Fascia Vent - 10mm continuous ventilation
- Airtrak F25 Fascia Vent - 25mm continuous ventilation Supplied by Nicholson. Tel 0845 0098 980.

Airtrak CP
Change of Pitch Ventilator



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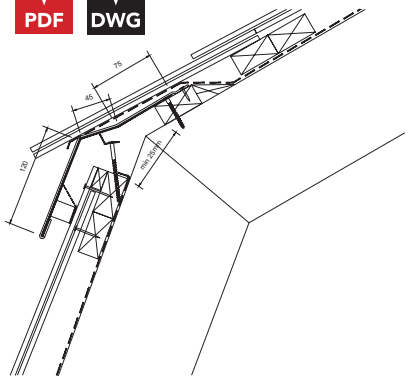


Description
The CP can be used to introduce ventilation at the change of pitch in a slated or tiled mansard roof. The profile is bent to a specific angle which allows it to be included at this point in the roof.

Material
0.7mm stainless steel, vinyl coated GRP insect mesh.

Ventilation
25mm continuous air gap equivalent.

Dimensions
OA girth 240mm, length 1000mm

Compatibility
For use with tiled and slated roofing.

Installation
The CP Ventilator is is fitted over the change of pitch and fixed to the lowest batten with non ferrous fixings. Additional secondary fixings should be used in to provide resistance to wind uplift. Lengths should be butted together or lapped by 10mm if required. The ventilator can be mitred at corners and trimmed to length with a large pair of tin snips The CP Ventilator should be covered with a code 4 or 5 lead flashing which is fixed to a timber batten at the top and welted around the lower edge of the ventilator. Ensure that the roofing membrane comes over the top of the ventilator using timber fillets as necessary to avoid ponding.

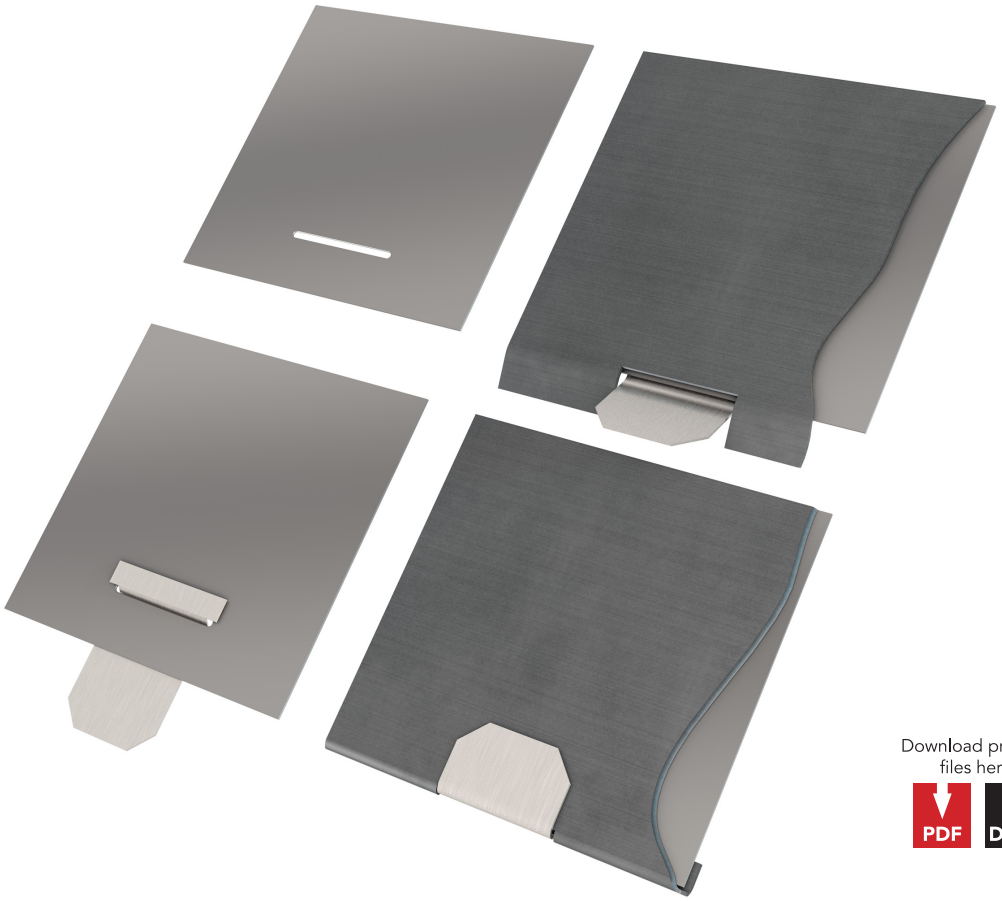
Severe exposure
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

To specify
- Airtrak CP Change of Pitch Ventilator
  Supplied by Nicholson. Tel 0845 0098 980.

German Gymnasium Restaurant, Kings Cross, London
Products used: Airtrak-VR200

Airtrak ventilation accessories

Airtrak CF
ClipFast Clips



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Description
The CF Clipfast Clips are used in situations where the flashing to the ventilator could slip or creep and the welted edge become disengaged in the process of time. They are available in stainless steel and copper and locate in the slots found in the lower edge of the ventilators. These slots are spaced at approximately 330mm centres. The CF is particularly recommended for use with the Airtrak VA and VR ventilators.

Material
0.5mm stainless steel or 0.6mm copper.

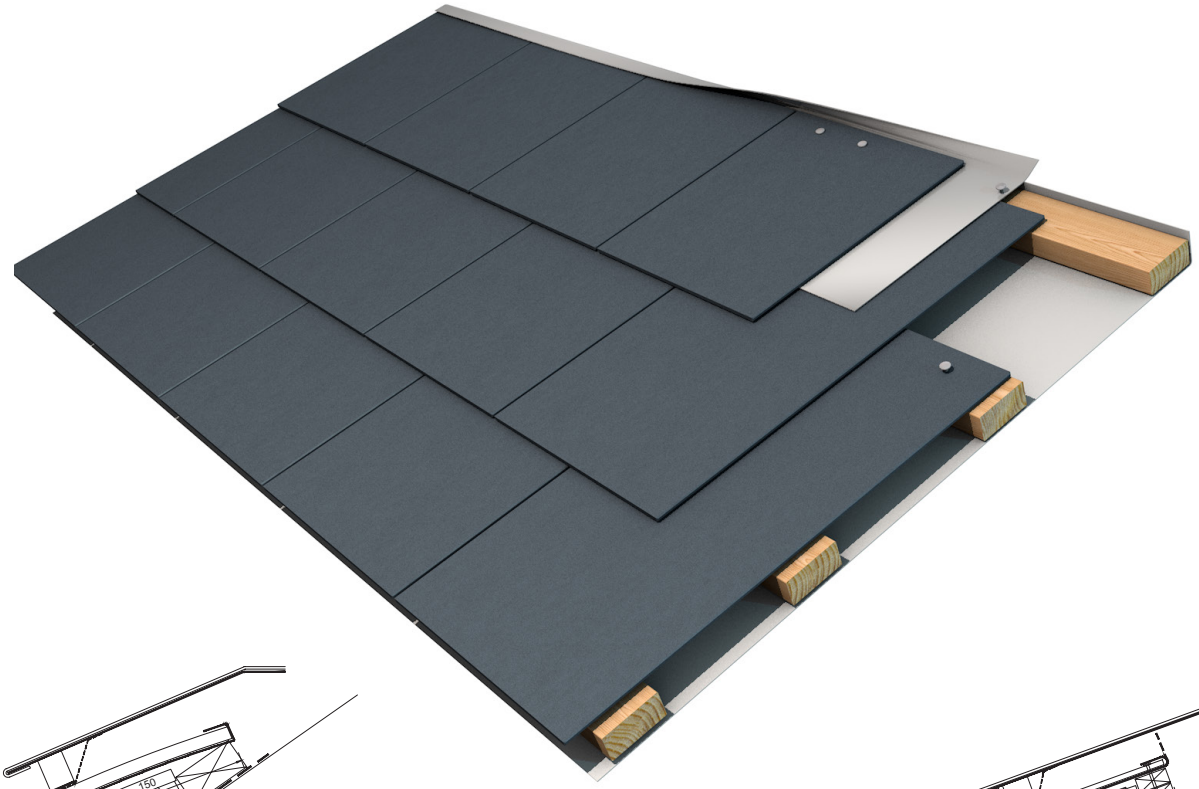
Dimensions
OA length 70mm, OA width 60mm.

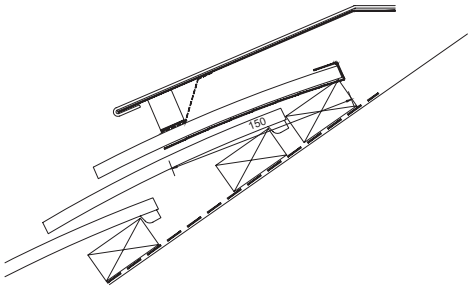
Compatibility
Fixing clip for securing lead flashings to the Airtrak ventilators to prevent flashing creep over time.

Installation
The Airtrak ventilators are pre slotted at 330mm centres to receive the CF Clipfast Clips. The CF should be dropped into the slots from the front prior to dressing the flashing over the ventilator. The flashing should extend 25mm past the lower edge of the ventilator and a 55mm cut out should be made where the CF Clips are located. Once the flashing has been welted around the ventilator, the CF clips can be welted and crimped on to the face of the flashing using seaming pliers

To specify
- Airtrak CF Clipfast Clips,
  3 no. required per 1000mm length
  Supplied by Nicholson. Tel 0845 0098 980.

Airtrak LPS Low Pitch Soaker
LPS for tiled roofing
LPS225 for slated roofing





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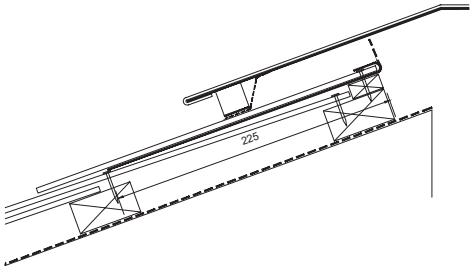


Description
The LPS is an additional flashing used with low pitch roofing to increase the weatherproofness of the ventilation detail at the head of slating or tiling.

Material
0.5mm aluminium.

Ventilation
n/a

Dimensions

LPS	OA girth 175mm, length 1000mm.
LPS225	OA girth 250mm, length 1000mm.

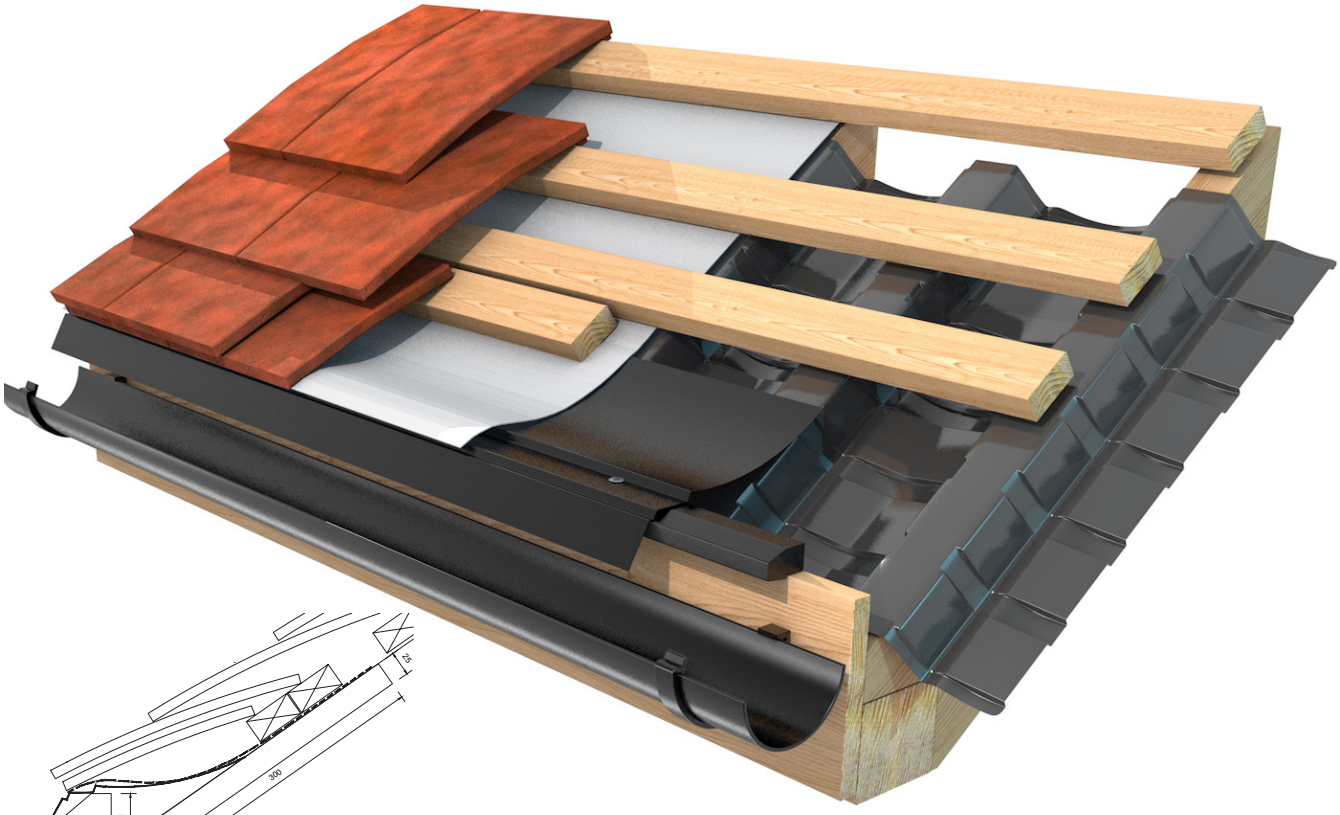
Compatibility
For use in slated and tiled roofs.

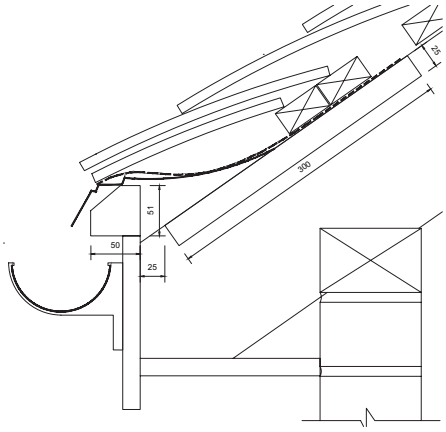
Tiled roofs	LPS
Slated roofs	LPS225

Installation
The LPS is supplied pre bent with a 25mm tab folded to 90 degrees.It is installed underneath the top row of slates or tiles (eaves course) and is positioned so that the 25mm fold will turn up just above the head of the eave course. The LPS should be lapped by 100mm and can be trimmed to length using metal snips. The eave course is then fixed through the LPS. Once the eave course is fixed, the 25mm tab is dressed down over the top of the eave course to form a loose welt.

To specify
- Airtrak LPS Low Pitch Soaker for tiled roofing
- Airtrak LPS225 Low Pitch Soaker for slated roofing
  Supplied by Nicholson. Tel 0845 0098 980.

Airtrak RV Roll Vent





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Description
The RV Roll Ventilator ensures that the airpath at the eaves is unobstructed by the insulation where it sits above the wall plate.

Material
Black UPVC.

Ventilation
25mm continuous airpath.

Dimensions
35mm high x 350mm wide x 6000mm long.

Compatibility
Use the RV at the eaves of a roof over 15° where the roof void is to be ventilated. The RV can be used with rafters at 400mm and 600mm centres.

Installation
The RV is rolled out over the rafters directly over the wall plate and nailed in position. For deepfill loft insulation two rows of the RV may be required to maintain the ventilation path.

To specify
- Airtrak RV Roll Vent
  Supplied by Nicholson. Tel 0845 0098 980.