

Airtrak MV Mansard Ventilator for Slated Roofing

Airtrak MV225



Description

The MV Mansard Ventilator for slated roofing is used to introduce ventilation into a flat roof where it falls out onto a slated pitched roof. The stainless steel profile is covered by the flat roofing material or flashing. To maintain the integrity of the detail as the pitch reduces, the MV Mansard Ventilator is used with the LPS225 Low Pitch Soaker (page 50).

Material

Stainless steel, vinyl coated GRP insect mesh, intumescent material (FR version only)

Ventilation

25mm continuous air gap equivalent.

Dimensions

Cover to roof pitch

MV150 150mm, OA girth 180mm, length 1000mm

MV200 200mm, OA girth 240mm, length 1000mm

MV225 225mm, OA girth 275mm, length 1000mm

Compatibility

For use at the junction of a slated roof with metal, membrane or liquid roof coverings.

MV150 60°-90° pitch

MV200 45°-59° pitch

MV200 + LPS225 35°-44° pitch

MV225 + LPS225 25°-34° pitch

Installation

Where required, the LPS225 Low Pitch Soaker is installed underneath the eaves course of the slating. The top edge is welded over the top of the eaves course to provide a check for wind blown rain. The MV Mansard Ventilator is fitted to a 1mm rebate in the edge of the flat roof with non ferrous fixings and extends down over the slates. Additional secondary fixings should be used 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. For lead roof coverings, the lead covering is dressed down the face of the ventilator and welded around the lower edge. For membrane and liquid applied roof coverings, a suitable metal flashing material should be used to cover the ventilator welding around the lower edge and extending onto the roof to facilitate a lap joint in accordance with the manufacturers instructions. These flashings should not be installed in lengths exceeding 1m and have a minimum lap of 150mm at the joints. The use of the CF Clip Fast Clips should be considered where it is possible that the flashing might slip off the ventilator over time and the welt disengage from the lower edge (see page 49).

Please note

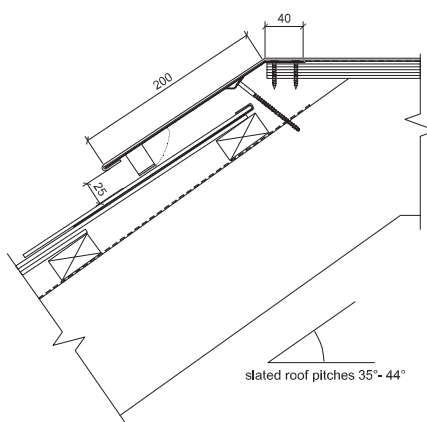
Standard Airtrak details as shown assume moderate weather conditions. Small amounts of moisture may be admitted under heavy storm conditions. Where more severe weather conditions are likely, consideration should be given to increasing the vertical overlap dimension to upstands and to slating or tiling to improve the integrity of the weathering detail. For slate and tile details we also recommend the use of the Airtrak LPS where appropriate. Contact Nicholson for further technical help.

Airtrak MV Mansard Ventilator for Slated Roofing

Airtrak MV200



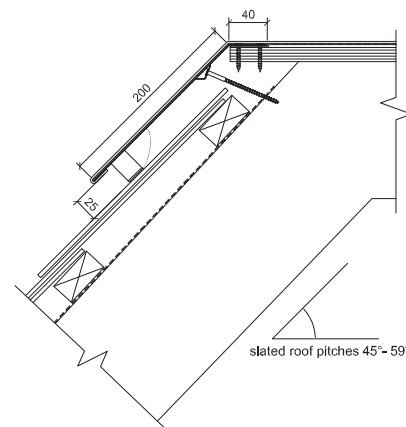
35° - 44° pitch



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45° - 59° pitch



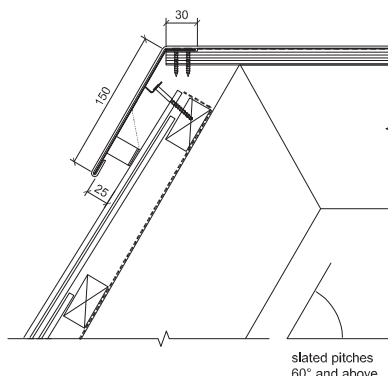
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Airtrak MV150



60° - 90° pitch



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To specify for pitch 60°-90°

Airtrak MV150 Mansard Ventilator for slated pitches 60°-90°
 Airtrak MV150-E Increased Exposure Mansard Ventilator for slated pitches 60°-90°
 Airtrak MV150-FR Fire Resisting Mansard Ventilator for slated pitches 60°-90°

To specify for pitch 45°-59°

Airtrak MV200 Mansard Ventilator for slated roof pitches 45°- 59°
 Airtrak MV200-E Increased Exposure Mansard Ventilator for slated roof pitches 45°-59°
 Airtrak MV200-FR Fire Resisting Mansard Ventilator for slated roof pitches 45°-59°

To specify for pitch 35°-44°

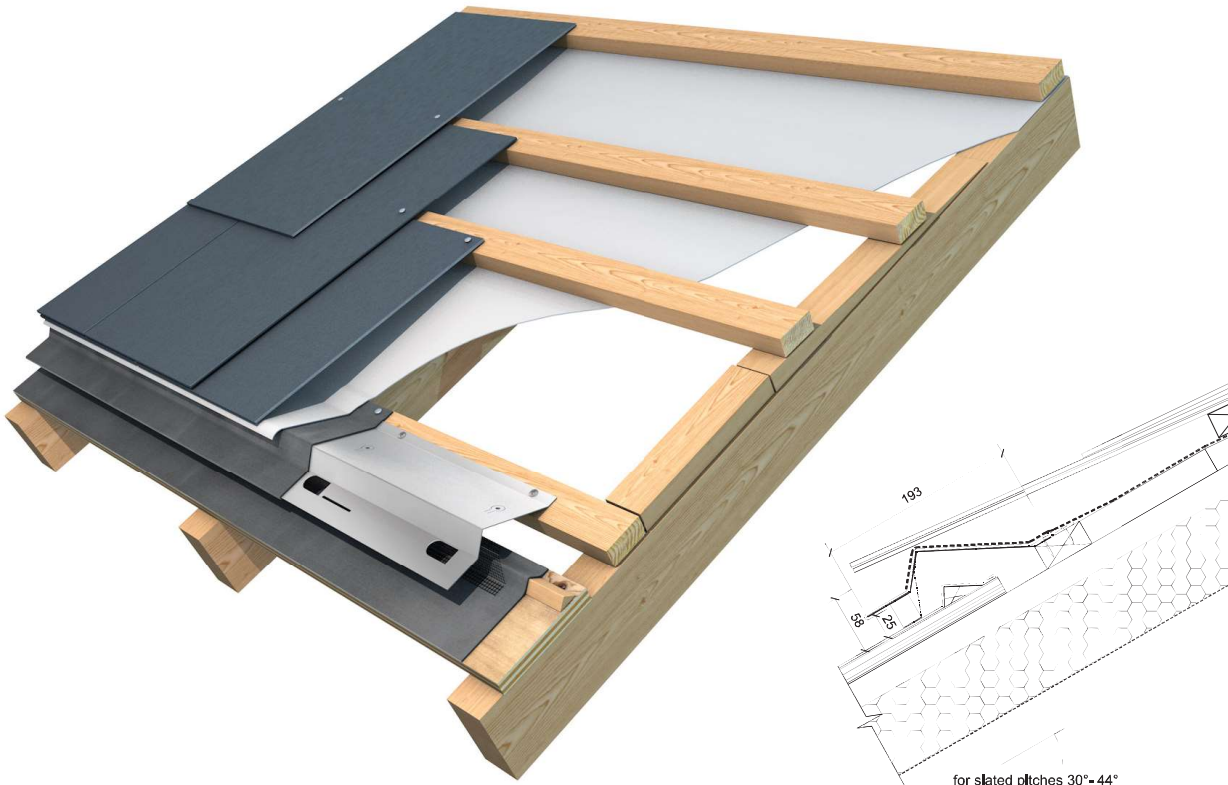
Airtrak MV200 Mansard Ventilator for slated roof pitches 35°- 44° with the LPS 225 Low Pitch Soaker
 Airtrak MV200-E Increased Exposure Mansard Ventilator for slated roof pitches 35°-44° with the LPS 225 Low Pitch Soaker
 Airtrak MV200-FR Fire Resisting Mansard Ventilator for slated roof pitches 35°-44° with the 225 LPS Low Pitch Soaker

To specify for pitch 25°-34°

Airtrak MV225 Mansard Ventilator for slated roof pitches of 25°- 34° with the LPS 225 Low Pitch Soaker
 Airtrak MV225-E Increased Exposure Mansard Ventilator for slated roof pitches of 25°-34° with the LPS 225 Low Pitch Soaker
 Airtrak MV225-FR Fire Resisting Mansard Ventilator for slated roof pitches of 25°-34° with the LPS 225 Low Pitch Soaker

Available from: Nicholson Roof Products, www.nicholsonsts.com
info@nicholsonsts.com, 01763 295828.

Airtrak LB30 Layboard Ventilator for roof pitches of 30°-44°



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Description

The LB30 Layboard Ventilator is for slated or tiled roofs from pitch 30°-44°. 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

Stainless steel, vinyl coated GRP insect mesh, intumescent material (FR version only)

Ventilation

25mm continuous air gap equivalent.

Dimensions

OA girth 220mm, length 1000mm

Compatibility

For use at the junction of a slated roof with a leadlined gutter or flat roof. For roof pitches of 30°-44°.

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 deviation 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 weltd

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 occurring. Ensure that a minimum of 25mm airflow is achieved throughout the detail.

Please note

Standard Airtrak details as shown assume moderate weather conditions. Small amounts of moisture may be admitted under heavy storm conditions. Where more severe weather conditions are likely, consideration should be given to increasing the vertical overlap dimension to upstands and to slating or tiling to improve the integrity of the weathering detail. For slate and tile details we also recommend the use of the Airtrak LPS where appropriate. Contact Nicholson for further technical help.

To specify

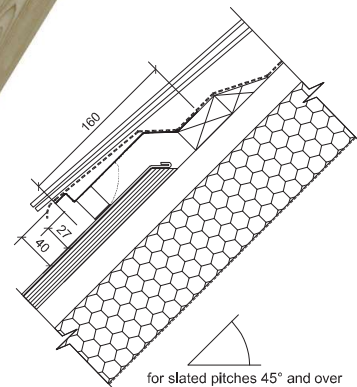
Airtrak LB30 Layboard Ventilator for pitches 30°-44°

Airtrak LB30-E Increased Exposure Layboard Ventilator for pitches 30°-44°

Airtrak LB30-FR Fire Resisting Layboard Ventilator for pitches 30°-44°

Available from: Nicholson Roof Products, www.nicholsonsts.com
info@nicholsonsts.com, 01763 295828.

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

Stainless steel, vinyl coated GRP insect mesh, intumescent material (FR version only)

Ventilation

25mm continuous air gap equivalent.

Dimensions

OA girth 180mm, 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 deviation 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 occurring. Ensure that a minimum of 25mm airflow is achieved throughout the detail.

Please note

Standard Airtrak details as shown assume moderate weather conditions. Small amounts of moisture may be admitted under heavy storm conditions. Where more severe weather conditions are likely, consideration should be given to increasing the vertical overlap dimension to upstands and to slating or tiling to improve the integrity of the weathering detail. For slate and tile details we also recommend the use of the Airtrak LPS where appropriate. Contact Nicholson for further technical help.

To specify

Airtrak LB45 Layboard Ventilator for pitches over 45°
Airtrak LB45-E Increased Exposure Layboard Ventilator for pitches over 45°
Airtrak LB45-FR Fire Resisting Layboard Ventilator for pitches over 45°

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Airtrak RTV Ridge Tile Ventilator



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

Stainless steel, vinyl coated GRP insect mesh, stainless steel expanded metal lath, intumescent material (FR version only)

Ventilation

5mm continuous air gap equivalent.

Dimensions

OA girth 125mm, length 1000mm.

Compatibility

Providing ventilation to a tiled roof ridge at a pitch of over 35° in conjunction with the Airtrak LPS150 Low Pitch Soaker.

Providing ventilation to a slated roof ridge at a pitch of over 25° in conjunction with the Airtrak LPS225 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 position 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.

Please note

Standard Airtrak details as shown assume moderate weather conditions. Small amounts of moisture may be admitted under heavy storm conditions. Where more severe weather conditions are likely, consideration should be given to increasing the vertical overlap dimension to upstands and to slating or tiling to improve the integrity of the weathering detail. For slate and tile details we also recommend the use of the Airtrak LPS where appropriate. Contact Nicholson for further technical help.

To specify for tiled roof

Airtrak RTV Ridge Tile Ventilator for tiled roof pitches 35° and over

Airtrak RTV-E Increased Exposure Ridge Tile Ventilator for tiled roof pitches 35° and over

Airtrak RTV-FR Fire Resisting Ridge Tile Ventilator for tiled roof pitches 35° and over

To specify for slated roof

Airtrak RTV Ridge Tile Ventilator for slated roof pitches 25° and over

Airtrak RTV-E Increased Exposure Ridge Tile Ventilator for slated roof pitches 25° and over

Airtrak RTV-FR Fire Resisting Ridge Tile Ventilator for slated roof pitches 25° and over

Available from: Nicholson Roof Products, www.nicholsonsts.com
info@nicholsonsts.com, 01763 295828.