Ref: MRV
V1 31/01/2025

Bitumen Waterproofing
Single Ply Waterproofing
Hot Melt Waterproofing
Liquid Waterproofing

Product Data Sheet

MANSARD ROOF VENTILATOR

Ventilator

Specially designed for the ventilation of roof voids on slated and tiled roofs to assist in achieving compliance with Building Regulations

Key benefits

- Economic solution to difficult details saving time in design and labour.
- Robust, unobtrusive detail made from 304 grade 0.7mm stainless steel profile (316 grade available for coastal locations).
- Compatible for use with all metal flashings, e.g. copper, lead, zinc, aluminium.
- Pre-holed for easy and secure fixing.
- Secondary fixing points also provided for wind uplift resistance.
- Specified air flow to regulation standards (provided by sturdy spacer feet at 230mm centres).
- Supplied in 1m lengths which can be trimmed to length and mitred at corners on site.
- Vinyl coated GRP insect mesh pre-attached.

Mansard Roof Ventilator for slated and tiled roofing

The Axter Mansard Roof Ventilator (MRV) for slated and tiled roofing is used to introduce ventilation into a flat roof where it falls out onto a slated or tiled 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 Mansard Ventilator is used with a Low Pitch Soaker – LPS or LPS/225 – see below for details.

Material 0.7mm stainless steel, vinyl coated GRP insect mesh.
Ventilation 25mm continuous air gap equivalent.

Dimensions Cover to roof pitch	
MRV150	150mm
MRV200	200mm
MRV225	225mm
All ventilators are 1000mm long	
Compatibility: for use at the junction of a slated roof with metal, membrane or liquid roof covering	
Pitch	**Axter MRV**
60 to 90°	MRV150
45 to 59°	MRV200
35 to 44°	MRV200 + LPS/225
25 to 34°	MRV225 + LPS/225
Compatibility: for use at the junction of a tiled roof with metal, membrane or liquid roof covering	
Pitch	**Axter MRV**
60 to 90°	MRV150
45 to 59°	MRV200
35 to 44°	MRV200 + LPS
30 to 34°	MRV225 + LPS

Installation of Mansard Roof Ventilator

Where required, the Low Pitch Soaker (LPS or LPS/225) 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 MRV 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 welted around the lower edge.

For membrane and liquid applied roof coverings, a suitable metal flashing material should be used to cover the ventilator welting around the lower edge and extending onto the roof to facilitate a lap joint in accordance with the manufacturer's instructions. These flashings should not be installed in lengths exceeding 1m and have a minimum lap of 150mm at the joints.

The use of ClipFast 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 below).

Severe exposure

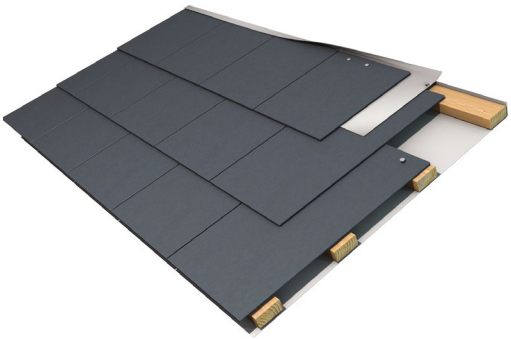
For coastal and very exposed locations this ventilator can be supplied in 1.0mm thick 316 grade stainless steel. Where extreme weather conditions are likely, consideration should be given to providing more weathering cover to upstands and slating or tiling to improve the integrity of the detail.

Low Pitch Soaker for slated and tiled roofing

The Low Pitch Soaker is an additional flashing used with low pitch roofing to increase the weathertightness of the ventilation detail at the head of slating or tiling.

Material 0.5mm aluminium.

Ventilation n/a



Dimensions	
Low Pitch Soaker for tiled roofs (LPS)	OA girth 175mm, length 1000mm
Low Pitch Soaker for slated roofs (LPS/225)	OA girth 250mm, length 1000mm
All ventilators are 1000mm long	

Installation of Low Pitch Soaker (LPS or LPS/225)

The Low Pitch Soaker 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.

Clipfast Clips

Fixing clips for securing lead flashings to the Mansard Ventilators to prevent flashing creep over time.

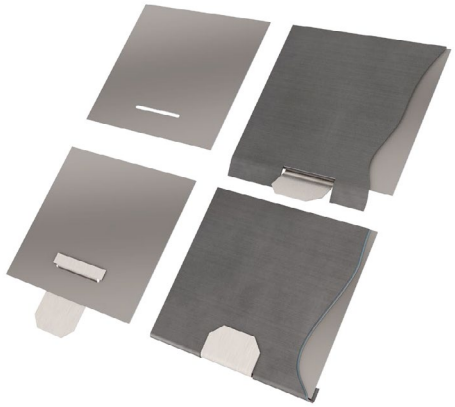
Clipfast Clips are recommended for use where the flashing to the ventilator could slip or creep and the welted edge become disengaged.

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.

3 no. required per 1000mm length

Material 0.5mm stainless steel or 0.6mm copper.



Dimensions	
ClipFast Clip	OA length 70mm, OA width 60mm

Installation

Mansard Ventilators are pre-slotted at 330mm centres to receive the Clipfast Clips.

The clips 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 Clipfast Clips are located. Once the flashing has been welted around the ventilator, the clips can be welted and crimped on to the face of the flashing using seaming pliers.

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