

# Guidelines for Installation: Vents Easily Installed

Vents from J.A. Plast are easily installed using a few simple guidelines. Very little adjustment is required as the base plates of the vents already match the profile of the roofing material. In regions with heavy snowfall the vents must always be secured against the heavy load. Equally other local conditions may require different precautions.



## Efficient Sanitary Ventilation

For natural ventilation it is important to place the vents close to ridge (max. 1 m from the ridge) for optimal thermal efficiency. For mechanical ventilation the placement of the vents is less important.

However, it is still recommended to place vents relatively close to the ridge. In regions with heavy snowfall vents must be installed max. 1 m from the ridge and a snow stop must be placed above the vent.

## Continuous Ventilation

To remove condensation and moisture from the roof space it is important that the ventilation is continuous throughout the entire roof space, ventilating every truss. The most efficient way to ventilate is to provide a fresh-air inlet at the eaves and an outlet through the ridge via ventilation gaps or vents.

### Natural Ventilation

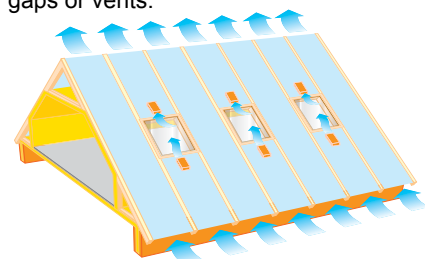


*Optimal placement of the vent is as close to the ridge as possible (max. 1 m from the ridge).*

### Mechanical Ventilation

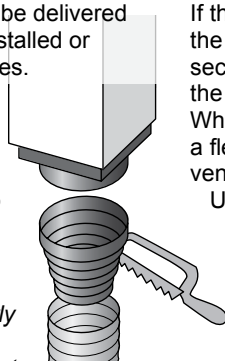


*Using mechanical ventilation the placement of the vent can be chosen more freely, but still as close to the ridge as possible.*



## Insulated Pipes

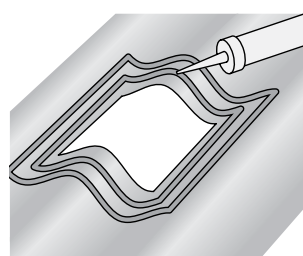
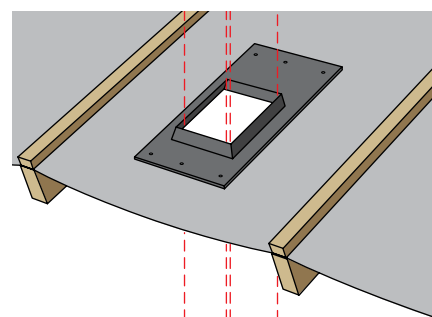
All our sanitary vents can be delivered with insulated pipes preinstalled or prepared for insulated pipes. Cut the adapter to the appropriate diameter and fix to the insulated pipe. Finally, push the insulated pipe into the vent as deep as possible.



*Please note that any pipe or flexipipe connected to the vent should be properly supported to ensure no stress is placed on the vent.*

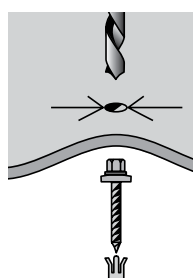
## Through the Underlay

If the vent is connected to a pipe through the underlay it is important to have a secure solution diverting water around the opening using Felt Penetration UV-F. When ventilating the roof space through a flexible membrane use UV2000 – when ventilating through boarded roofs use UV2003. UV2000 and UV2003 should be installed at the eaves and at the ridge.



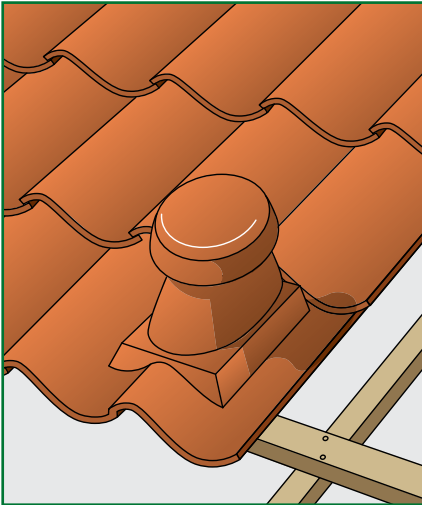
## Sealing

When installing the vent apply sealing strips of mastic around the hole. The filler must not dissolve polystyrene and must be of a type, which stays flexible when cured. The best seal is obtained when installed in conjunction with an overlap.



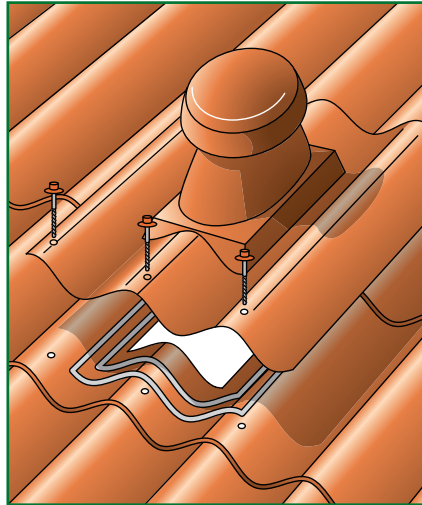
## Fixing

The vents are fixed in the same manner as the rest of the roofing material or with a suitable number of screws with washers, depending on roofing material. It is necessary to pre-drill holes in the base plate of the vent. The holes should be larger than the screws by 3 mm. The screws are fastened to the batten or with cavity dowels. The screws must not be tightened completely, but should leave room to allow for thermal movement between base plate and roofing material.



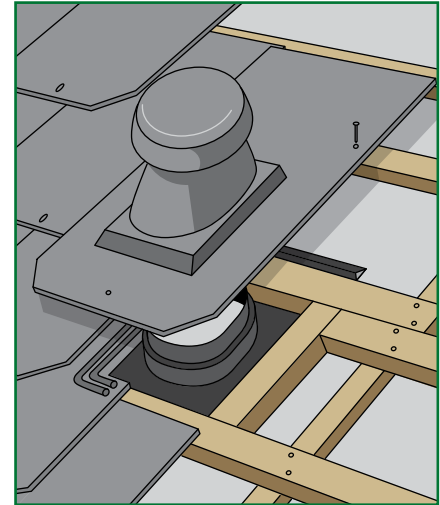
### Clay or Concrete Tile

The base plate of the vent usually replaces two tiles. The vent has a hook for fastening to the next tile or a strap for fastening to the batten with nails. The vent is installed like the tiles and, if necessary, fastened with screws with washers through pre-drilled holes.



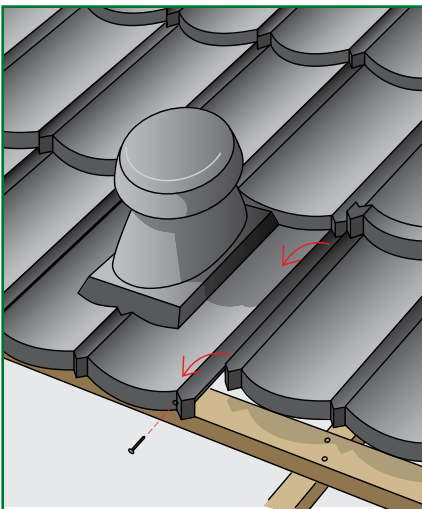
### Corrugated Fibre Cement Sheets

The vent is installed by cutting a hole in the fibre cement sheet matching the dimensions of the vent pipe. Seal with strips of mastic around the hole. Push the vent as far as possible up under the sheet above and fasten with min. 3 screws with washers through pre-drilled holes. Alternatively use cavity dowels.



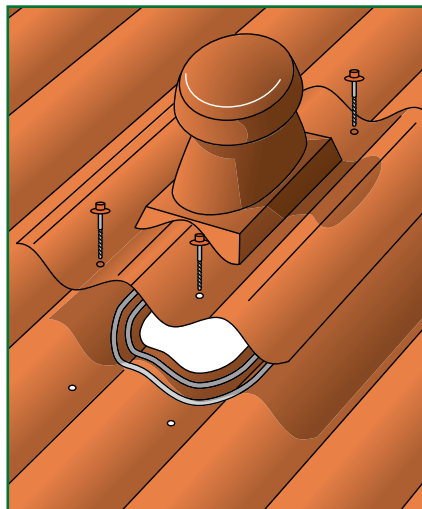
### Slates

The base plate of the vent matches the shape and size of the slate. Seal with strips of mastic around the hole on the slates underneath and install the vent in the same manner as the slates.



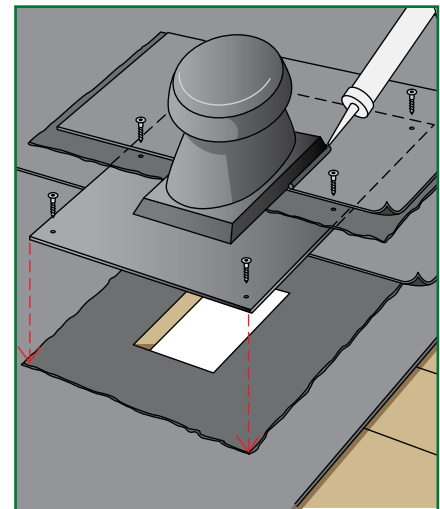
### Short Steel Roofing

On short profiled steel roofing the vent is installed between two sheets. Seal with mastic, install sheets overlapping the base plate of the vent from both sides and fasten with screws or nails. If the sheet is longer than the base plate install as described for corrugated sheets.



### Long Steel Roofing

For installation on long steel roofing cut a hole for the vent matching the dimensions of the vent pipe. Seal around the hole with strips of mastic. Press the vent in position and fasten with min. 4 screws with washers through pre-drilled holes. Alternatively use cavity dowels.



### Bitumen and Shingles

Install the base layer up to the hole and cold seal with bitumen glue around the hole approx. 20 mm from the edge of the base plate. Pre-drill the holes and install the vent using 6 flat-headed screws. Push the top layer against the vent and close with a covering layer around the vent. Seal with mastic along the edges of the vent using mastic intended for bitumen and which does not dissolve polystyrene.

*These guidelines for installation are worked out according to the best of our knowledge. The guidelines are, however, very general and do not guarantee correct installation as specific roofing materials and local conditions, like weather conditions and requirements from local authorities, may influence requirements for the installation.*