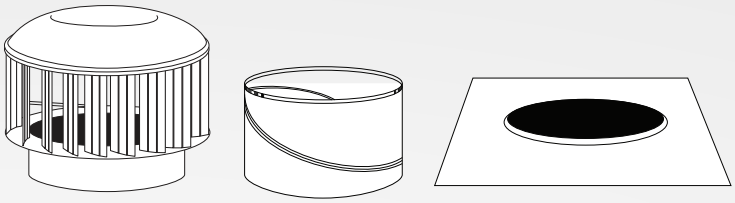
Industrial Turbine Ventilators & Damper
Installation Instructions

ALSYNITE ONE

Ventilator Components

The standard Alsynite One Ventilator consists of these components: Turbine, Variable Pitch Tube and Base Flashing. Set out below are step-by-step installation instructions.

The Alsynite One Industrial Ventilator is designed so that it will not allow water ingress in normal weather conditions. Quality installation work is critical, care should be taken to eliminate the risk of leaks through the flashing or fasteners.



Turbine Head | Variable Pitch Tube | Base Flashing

Industrial Turbine Installation Instructions

Step 1

Select the appropriate position on the roof.
Note: when selecting the position of the vent, weatherproofing needs to be taken into account, the most efficient means is to locate the flashing under the ridge cap.

Step 2

Place the base flashing under the ridge capping. Ensure that the base flashing covers the corrugations or ribs equally, then mark a circle using the base as a template. Cut hole. Once the hole has been cut, turn up the corrugations or pans and secure the flashing to the roof.
It is recommended that an infill be used on the low side of the flashing.
Coat fasteners with silicone to ensure they're weatherproof.

Step 3

When a variable pitch tube base is being used, sit the variable pitch tube on the flashing (wafered edge at top) and rotate the top and bottom halves until the top of the variable pitch tube is horizontal. It is recommended that a level be used. Secure the two halves of the variable pitch tube by inserting self tapping screws into the adaptor clips. Run a bead of silicone around the inside and outside of the variable pitch tube seam.

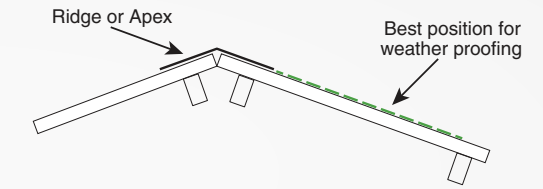
DO NOT apply silicone to joint between flashing and Varipitch. Lift the variable pitch section off th e base plate slightly, this will act as a natural gutter to release any trapped water or condensation.

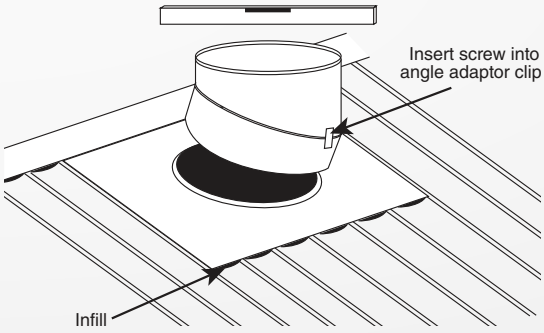
Step 4

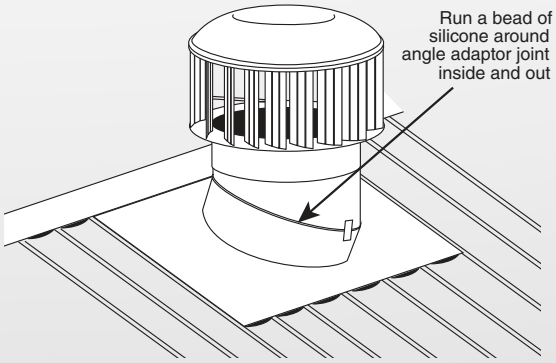
Fix the variable pitch tube to the flashing with self tapping screws.
(See Table 1 for the number of fasteners)

Step 5

Fit the turbine to the Variable Pitch Tube. Check that it is level and adjust by tilting if necessary. Fasten the turbine to the top of the Variable Pitch Tube with self tapping screws. (See Table 1 for the number of fasteners). Run a bead of silicone between the 2 components.







Unit Size (mm)	Head to Angle Adaptor	Variable Pitch Tube to Flashing	Flashing to Roof*
300	4	4	10
600	6	6	16
900	8	8	20

*Locate 4 close to variable pitch tube

Either 10 gauge 16mm tek screw with neo or 4-3 blind rivets are recommended. When rivets are used apply silicone over the rivets to seal.

Damper Installation Instructions

- Follow steps 1 & 2 for ventilator installation overleaf. Before securing the Base Flashing to the roof, insert and secure the Damper Ring under the Base Flashing.

  It will fit snugly into the up-stand and secure in place with rivets. At the highest point of the already cut hole, make a 100mm x 75mm cut-out to allow for the damper actuator to fit through. A power supply will be required at each position a ventilator is to be installed.

- Continue from step 3