



# Profile Base Hooded Roof Fan

Installation manual



## General Instructions

1. Locate and mark area where fan is to be installed between two purlins. Check the purlin spacing by measuring the screw line centres and check that the profiled fan base is long enough to provide the support and weather cover needed at top and bottom for a successful installation.

2. Cut roof sheet/s 250mm (min) such that the fan profile base at top and bottom will reach the 'upslope purlin' underneath the cut roof decking and that the fan base overlap will reach beyond the lower purlin line sufficiently.

3. The width of the roof sheets to be removed depends on the fan size as noted below:

400mm fan – remove 1 roof sheet width

600mm fan – remove 1 roof sheet width

800mm fan – remove 1 and an extra rib section roof sheet widths

1000mm fan – remove 2 roof sheet widths

1200mm fan – remove 2 roof sheet widths

NB. The Profile fan base is to 'underlap' and 'overlap' sideways, not be just sat on top of the metal roof sheeting.

4. Losen roof fixings of surrounding roof sheets (as many as are required as noted in Step 5).

5. Slide in fan ensuring the base underlaps on upper side and overlaps on the lower side. Ensure base is supported by at least two purlins. The base is also to lap sideways, consistent with the already laid roof.

6. Fasten fan profile base to the roof purlins nearest to either side of fan barrel along the centre rib/s only. Follow by fastening the centre rib/s to the top and bottom roof sheet overlap. Also fasten centre rib/s to any other purlin the profile base may cover. (particularly if the installation covers narrow spacings near the ridge).

7. Check to make sure fan profile base corrugations or profile sit snug with roof sheet profile. If they do, then move to Step 6. If they don't, then stretch or compress/shrink roof sheets on either side of fan until the profiles match. Additional roof sheets may need to be unfastened on either side of fan for more adjustment, to achieve this.

8. Run a contiguous bead of silicon sealant between profile base and roof sheet overlap for waterproofing.

9. Finish off fastening/screwing off the profile base to roof purlins by starting at the centre of profile base and moving out to edge of fan, followed by all surrounding roof sheets.

## STEP 1

Locate and mark area where fan is to be installed between two purlins. Check the purlin spacing by measuring the screw line centres and check that the profiled fan base is long enough to provide the support and weather cover needed at top and bottom for a successful installation.



## STEP 2

Cut roof sheet/s 250mm (min) such that the fan profile base at top and bottom will reach the 'upslope purlin' underneath the cut roof decking and that the fan base overlap will reach beyond the lower purlin line sufficiently. The width of the roof sheets to be removed depends on the fan size as noted below:

400mm fan – remove 1 roof sheet width

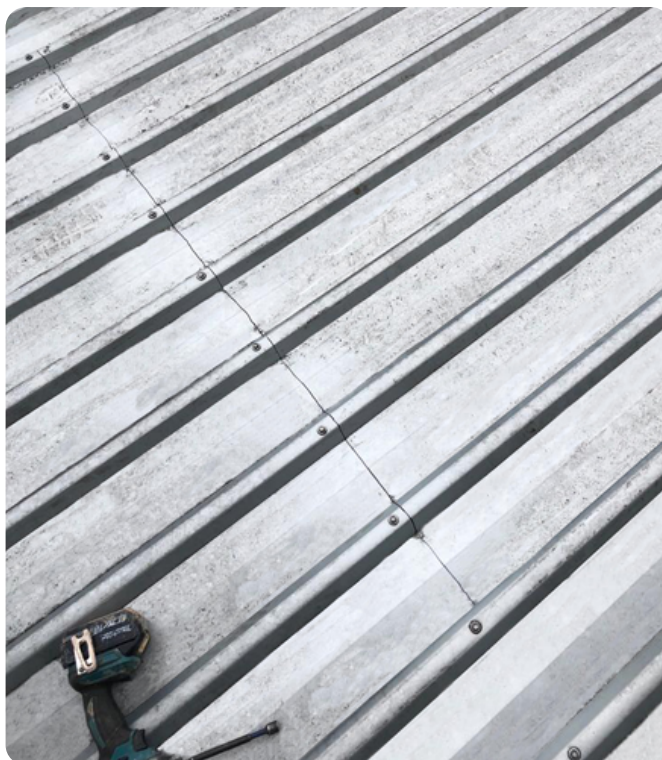
600mm fan – remove 1 roof sheet width

800mm fan – remove 1 and an extra rib section roof sheet widths

1000mm fan – remove 2 roof sheet widths

1200mm fan – remove 2 roof sheet widths

NB. The Profile fan base is to 'underlap' and 'overlap' sideways, not be just sat on top of the metal roof sheeting.



## STEP 3

Loosen roof fixings of surrounding roof sheets (as many as are required as noted in Step 5).



## STEP 4

Slide in fan ensuring the base underlaps on upper side and overlaps on the lower side. Ensure base is supported by at least two purlins. The base is also to lap sideways, consistent with the already laid roof.



## STEP 5

Fasten fan profile base to the roof purlins nearest to either side of fan barrel along the centre rib/s only. Follow by fastening the centre rib/s to the top and bottom roof sheet overlap. Also fasten centre rib/s to any other purlin the profile base may cover. (particularly if the installation covers narrow spacings near the ridge).



## STEP 6

Check to make sure fan profile base corrugations or profile sit snug with roof sheet profile. If they do, then move to Step 6. If they don't, then stretch or compress/shrink roof sheets on either side of fan until the profiles match. Additional roof sheets may need to be unfastened on either side of fan for more adjustment, to achieve this.



## STEP 7

Run a contiguous bead of silicon sealant between profile base and roof sheet overlap for waterproofing.



## STEP 8

Finish off fastening/screwing off the profile base to roof purlins by starting at the centre of profile base and moving out to edge of fan, followed by all surrounding roof sheets.



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