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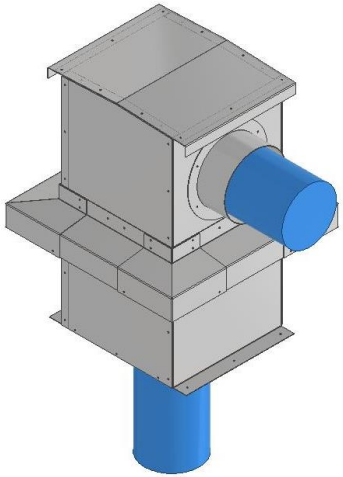
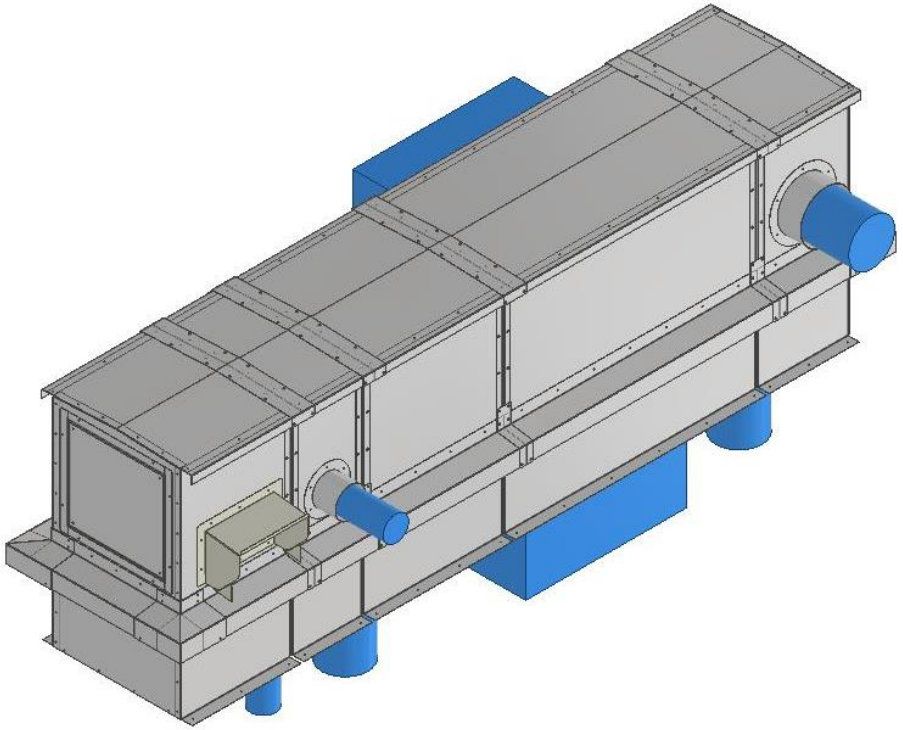
Installation guidelines for ROOFBOX P-Series Cabinets





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Health & Safety
- As with all roof work beware of falls from height
- During installation, the installer must use approved methods and all necessary PPE to prevent persons and objects falling through the roof opening
- After installation the operative must ensure all roof openings are securely protected against persons or tools falling through them
- Beware of sharp edges. Ensure eye and hand protection is worn,
- Units may be heavy and require more than one person to lift them safely.
- Never leave unfixed or loose parts on the roof where strong winds may cause them to blow off the roof

Storage
- ROOFBOX units and any ancillary items should be stored at ground level until they are secured in position at roof level
- ROOFBOX units and ancillary parts should be kept dry. This is especially applicable to products containing mineral wool insulation
- Any transport damage should be reported to Nicholson before installation

Installation
- The installation guidelines should be read completely prior to installation
- The installation of the ROOFBOX units should be undertaken by a competent person
- Final weathering details are the responsibility of the installing contractor or subsequent contractors
- Cables should be independently supported from the structure and not relying on the ROOFBOX for support.
- All mastic and filler products should be used according to the manufacturer's recommendations (including the temperature range) and be compatible with adjacent materials

Maintenance
- ROOFBOX units should be inspected regularly to check for damage
- Damage to the paintwork should be reinstated as soon as possible with touch-up paint available from Nicholson
- ROOFBOX units should be washed down with a water & mild detergent solution annually to preserve the PPC finish.
- ROOFBOX units with a standard PPC finish should not be installed in a marine environment. Please speak to Nicholson for further information

For any questions relating to the installation of these units please call;

NICHOLSON STS LTD
+44 (0) 1763 295 828
info@nicholsonsts.com

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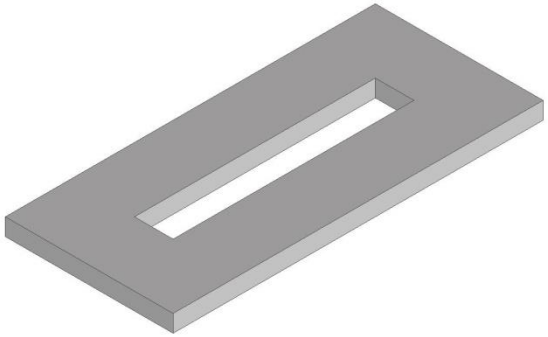

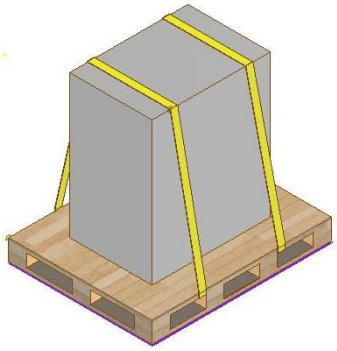

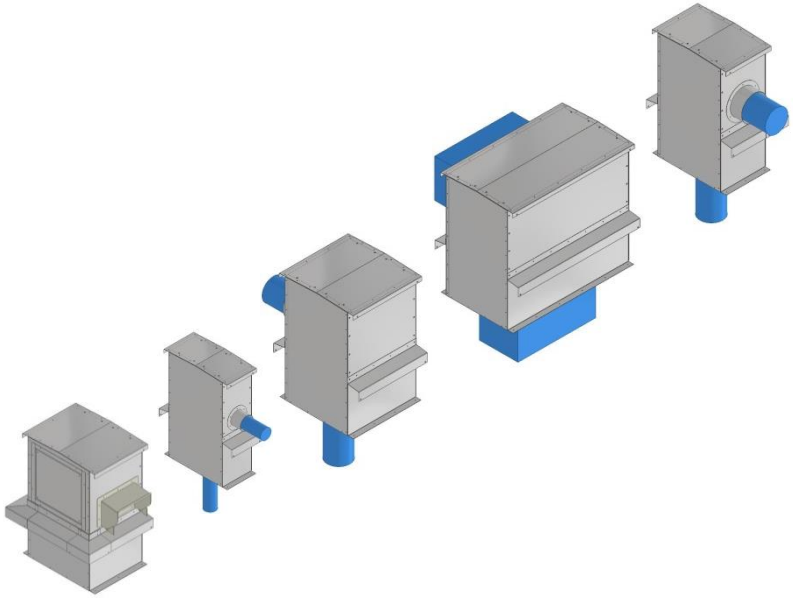

1. Construct a roof penetration

The roof penetration should be constructed according to the dimensions and details shown on the Design Drawings. The perimeter should be structurally adequate to withstand all relevant loadings also **the top surface should be level and flat.** .
Other Design Drawing details, (for example insulation) will need to be allowed for.

2. Plan the lift

Adhere to a management agreed lift plan.
Bring the wrapped cabinet to the installation location still palletised, if possible.
Ensure that no forces impinge on the lightweight protruding panels of the lower apron flashing and/or the top lid..

3. Identify each unit

Identify each unit noting it's correct location in an assembly (if appropriate) and noting the correct orientation.
Please refer to the RB Detail Drawings issued. For Units requiring modification or connection to the ply base, please consider executing these works before progressing. This may apply to Small Service and/or Crossflow Units

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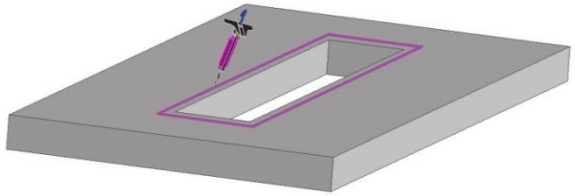

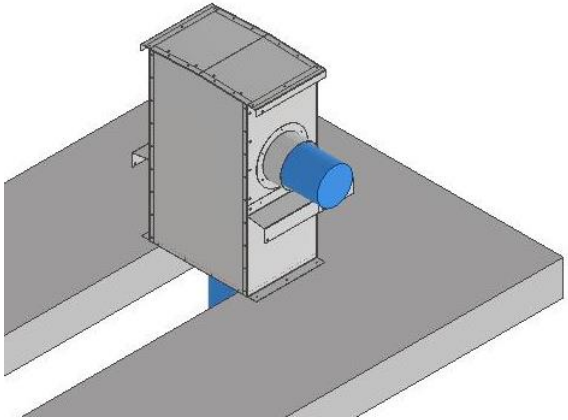

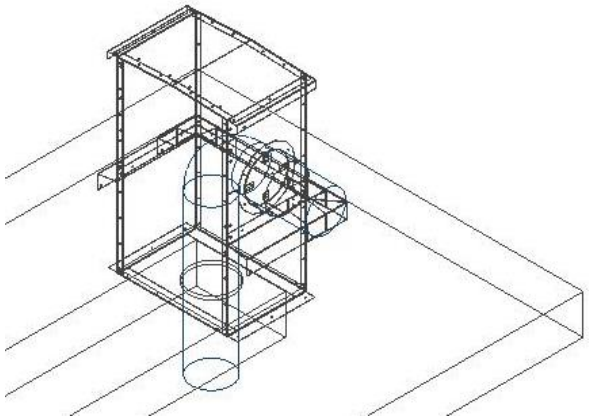

4. Apply a mastic bead.

Apply a mastic bead to the substructure to minimise air permeability. This may need to be in stages as the work progresses.

5. Place an end Cabinet on the substructure

Use mechanical or manual handling, as appropriate, to place the cabinet on the substructure**.**
Lift from underneath the base.
No force should impinge on the lid drip or the apron flashing.

6. Set out

Set out according to the Design Drawings (and check again before fixing) **. No force should impinge on the lid drip or the kerb flashing.**

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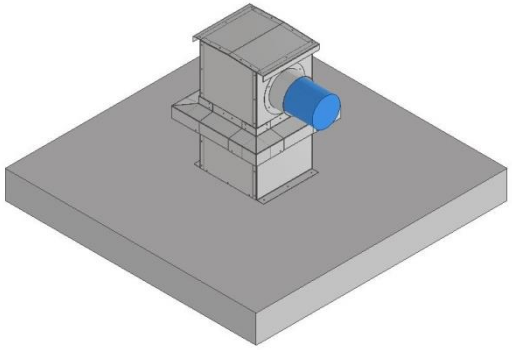

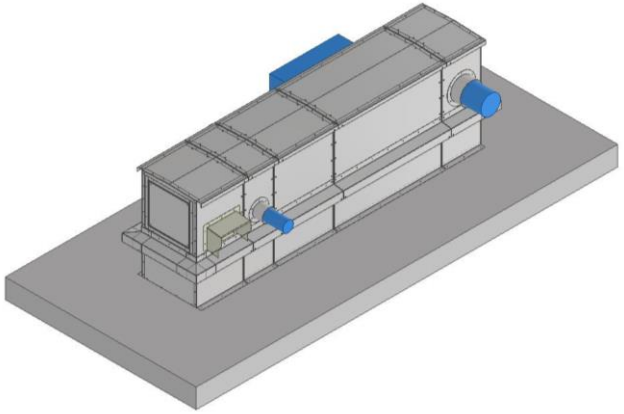

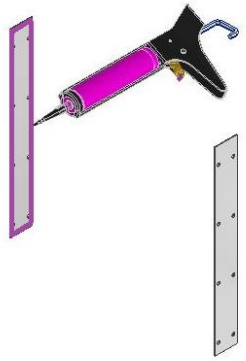

7. For single units now refer to steps 14/15/16

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8. Assemble multiple Units

The cabinets should be placed on the substructure and located according to the order and the dimensions on the Detail Drawings. Cover flashings can be used just to hold the assembly together before they are finally fitted with a mastic seal. Checks should be made for level and plumb and adjustments made as necessary.

9. Apply mastic bead to the vertical connecting flashings.

Apply a mastic bead to the inside face of all cover flashings before final fixing. This is in addition to the pre fitted foam seals.
Make a complete connection with 4no flashings unit by unit

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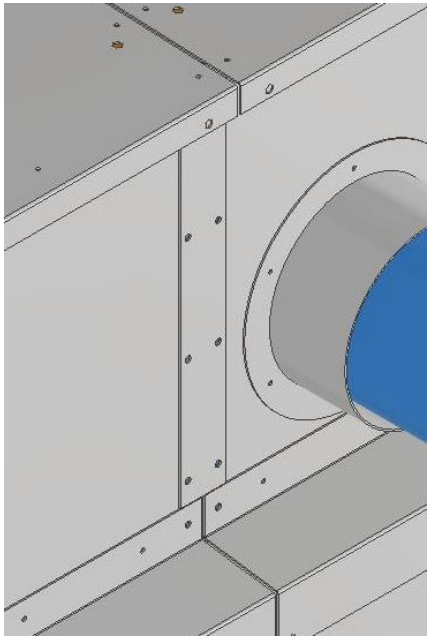
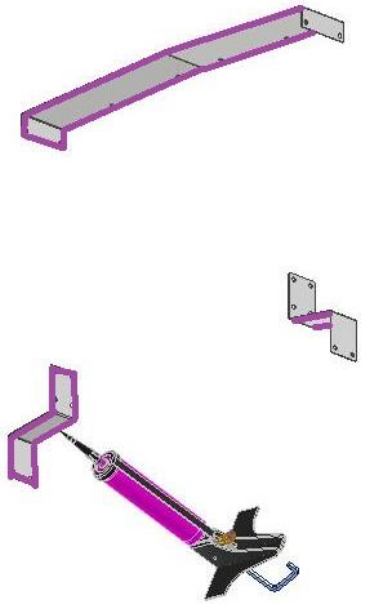


10. Fix the vertical connecting flashings

Using the M6 bolts provided



11. Apply a mastic bead to the 2no apron flashings and the lid flashing

Apply mastic to the inside face of every cover flashing before fixing. This is in addition to the pre fitted seal strip.

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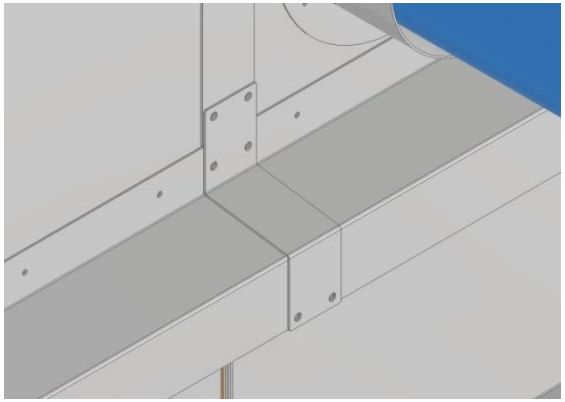

12. Fix the apron flashings.

Using the M6 bolts provided.

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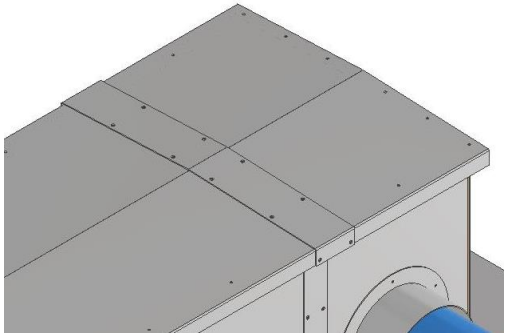

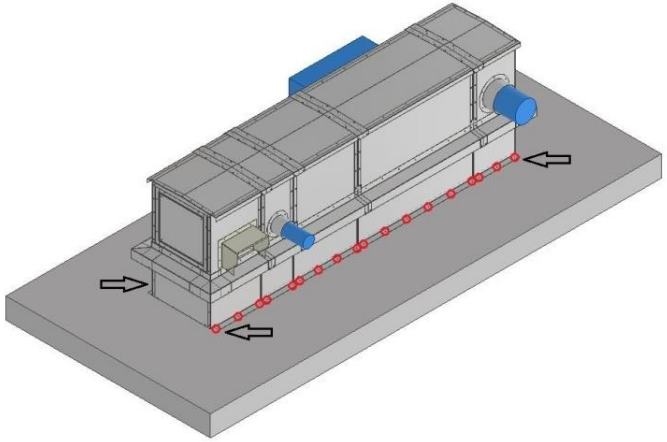

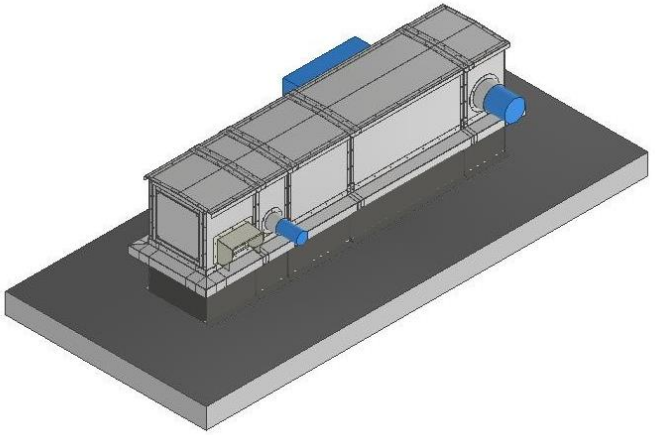

13. Fix the lid flashing.

Fix with the M6 bolts provided

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14. Fix the base flanges to the structure

Fix down through all the holes in the base flanges, using appropriate and adequate fixings.
Standard fixings are as listed but the specification may vary.
DFT-5.5x45 in timber
DF3-5.5x35 in sheet aluminium
SF-RS-6.1x75 in concrete

15. Complete the roof membrane .

The Roofbox should be dressed with waterproofing membrane in accordance with best practice details as set out by the roof system manufacturer. The membrane on the upstand should reach to the height of attachment of the apron.

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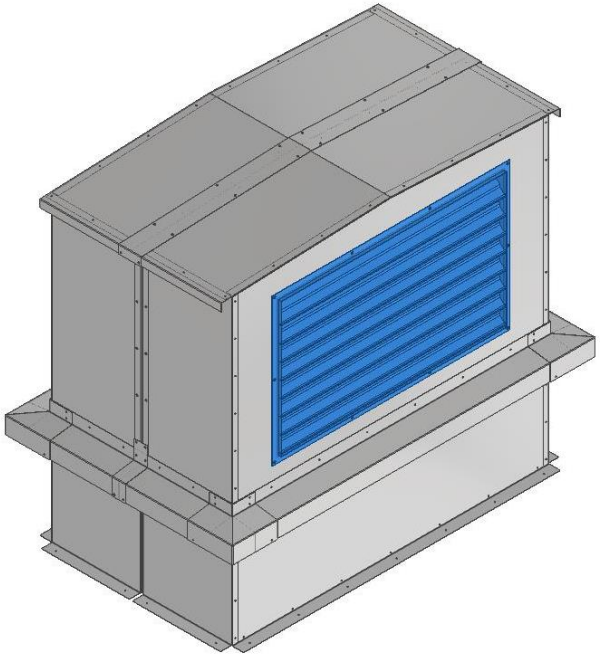
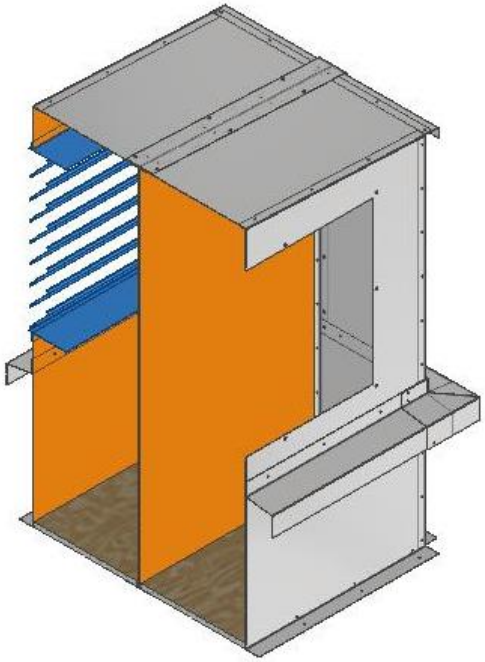
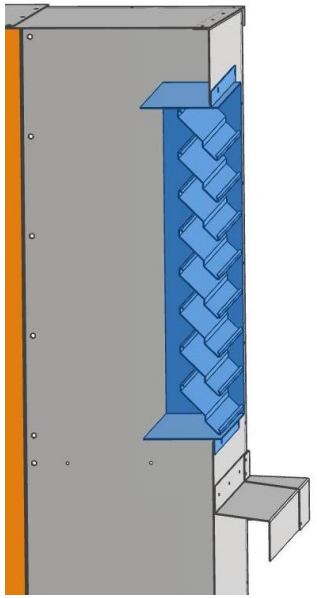
Installation guidelines for ROOFBOX P-Series Crossflow Cabinets



16. Refer to the Detail RB Drawings issued



17. Either make duct connections to the ply base before installation
Or remove louvres for access to the ply base after installation to make the connections. In any event maintain the duct compartmentation according to the design



18. Replace the louvre

Ensure correct rotation for draining to the outside
Ensure to achieve a seal at the flange

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For further information please contact Nicholson.

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