eurocell®

All together better

NEW equinox®

INSTALLATION GUIDE

Issue 1

CONTENTS

If in doubt at any stage

Please contact our Equinox Technical Support for additional support or advice.

0333 777 3057

equinox@eurocell.co.uk

INSTALLATION GUIDE

PRE-INSTALLATION CHECKS

- Equinox roof kits should be checked against the order acknowledgement provided by Eurocell.
- Before discarding any packaging, check all components are accounted for.
- Prior to commencing any installation work, the size, type, and condition of all Equinox roof kits should be checked against the survey sizes.
- When retro-fitting the Equinox tiled roof system, ensure the existing conservatory is structurally sound before conducting any installation work.

1. PREPARING THE RING BEAM

All the M6 x 30mm flat plate studs should already be set in position on the ring beam. Check the position of the studs and that they are all there. Slide in additional studs if required.

Where a box gutter is required
Fix the pre-cut box gutter to the property wall with 7.5mm x 100mm Concrete Screws (not supplied) at 400mm centres before installing the ring beam.

2. INSTALLING THE FRAMEWORK

Align the locating nib with the front edge of the frame. Clamp to frame to hold in position.

Continue locating the ring beam using the internal and external brackets and 40mm self-drill screws (supplied).

Ensure the window frames are correctly aligned.

Once the ring beam is in place, screw up from the frame using self-drill baypole screws (not supplied) to secure.

2.5

Position the first two Boundary Members (BM) against the wall to check position against previous conservatory. Mark these positions. Attach nuts, but do not fully tighten.

2.6

If necessary, tidy up any plaster above the marked lines.

2.7

Using the pre-positioned bolts, locate the rafter in the ring beam and ridge. **Do not** fully tighten the nuts. Again, check alignment of frames.

2.8

Once the ridge is in place, locate the hips. Aligning the centre of the hip with the corner of the frames.

2.9

The hips are a two-part component and locate into the ring beam and rest on the top plate.

2.10

Position all hips and locate on to bottom studs. **Do not** fully tighten the nuts.

2.11

Locate any jack rafters on the ring beam and studs. Use studs supplied to fix top of the jack rafter to the hip. **Do not** fully tighten the nuts.

2.12

Check the location and level of the ridge. Ensure all rafters are aligned. Tighten all nuts in the ridge and ring beam. **Do not** tighten jack rafters and hips at this point.

2.13

Clamp the ‘wok’ to the hip. Insert the stud into the pre-drilled hole and bolt together. Do not fully tighten.

2.14

Ensure jack rafters and hips are correctly aligned. Set hips in position using 40mm self-tapping screws, then tighten all remaining nuts in the hips, jack rafters and ridges.

2.15

Fix gable rafters (at 400mm centres) to the back wall using suitable 7.5mm x 100mm concrete screws (not supplied).

3. INSULATING & WATERPROOFING

3.1

Once all of the framework for the roof is assembled, start fitting the pre-cut 100mm insulation.

3.2

Additional insulation. At the crown and ridge of the roof, insert cavity insulation (supplied) between aluminium.

3.3

Once insulation is fully fitted, cover the entire roof with the pre-cut 12mm plywood. To fix on to bottom of ring beam, use 20mm self-drilling screws (supplied). Fix these 55mm from the front edge, every 300mm. Then, fasten up the hips and rafters every 300mm, using 40mm self-drilling screws (supplied).

3.4

Once the plywood is fitted and secure, fit the drip tray around the edge of the roof.

Cover the roof with a breathable membrane. Ensure at least 50mm of membrane runs over the edge of the roof (this can be trimmed back later).

4. TILE APPLICATION: STEEL TILES

LOOKING FOR COMPOSITE ROOF SLATE INSTRUCTIONS?
GO TO PAGE 13

When the roof is felted, tile application can commence. Position the tile cleat to overhang the roof by approximately 50mm and attach to roof using a batten (running vertically up the roof). Attach tile cleat at either end of the facet, then install battens across the whole facet at 300mm centres.

Once the cleat is in place, hook the first tile over the cleat to locate.

Continue to install the tiles by fixing to the battens along the top edge of the tile.

Once the roof is fully tiled, lay the framework to tile the ridges. Using a ridge tile to set the width, fix timber battens over ridge and hip ready for the ridge tiles application.

Using high-quality flash band (supplied), seal the ridge joints with a heat gun.

Affix ridge tiles to timber battens and finish with end caps.

Complete the tiling by fitting the ridge moulding.

5. NON-STANDARD ROOF CROWNS (STEEL TILE ONLY)

Once the ridge tile position has been established, mark the flash band with the central location of each hip. This will identitfy the capping point of the roof.

Using a ridge tile position, fix the battens for the ridge and hips to create a framework for the cap. The ridge tiles running up the hips should be spread to reduce their height. This way they can fit under the ridge tile.

Once the cap is created, use the centre line drawn in step 5.1 to line up and mark the tiles that cover each of the hips.

Once you are happy with the position of the tiles, you can cut them to sit in position.

5.5

Continue working your way around the cap, cutting each ridge tile into the previous one.

5.6

Once all the hip tiles are in place, position the ridge tile. Mark carefully so the ridge tile sits at the cap of the roof.

5.7

Cut the tile to size and fit into position.

5.8

Use the glue and dust kits (supplied) if additional cover of the joins is required

6. TILE APPLICATION: COMPOSITE SLATE TILES

6.1

Begin tiling along the roof edge, starting from the centre and work your way out, allowing for a 50mm overhang over the ring beam. Tiles should be screwed onto the plywood directly using 2 x 35mm steel screws or clout nails. Tiles should be aligned using the centre markers and gauge pre-marked on the tiles.

Gauge	Roof pitch
6”	14˚-25˚
6.5”	25˚-27.5˚
7”	27.5˚-30˚
7.5”	30˚ +

6.2

When you reach the ridge edges, you need to cut the tiles to shape and size to fit the ridges of the roof.

6.3

Using a high quality flash band, seal the ridge joints with a heat gun and install the ridge tiles.

6.4

Affix ridge tiles using 2 x 30mm stainless steel screws.

6.5

Complete the tiling using ridge tiles.

7. ROOF WINDOWS OPTIONAL

7.1

Before installing the roof window, install the first course of tiles. Place the roof window in position and mark the position of the roof.

7.2

Cut the breathable membrane using a Stanley knife leaving at least 75mm on each side to overlap the outside of the frame (see inset).

7.3

Reposition the frame and mark the position of the roof window on the plyboard.

7.4

Cut the hole to size using a jigsaw.

7.5

Drop the roof window into place. Ensuring the breathable membrane covers the outside of the frame.

7.6

Install the roof window following the manufacturer's instructions.

8. FINISHING OFF

8.1

Install capping board by positioning the first gutter bracket and marking its location. Screw will then be covered by the gutter bracket. These steps can be done before or after the drip tray and membrane are installed.

8.2

Fix the gutter brackets into the ring beam using 40mm self-tapping screws at maximum 450mm centres.

8.3

Fix the guttering into position on the gutter brackets, taking care to seal the external angles. Affix corner trims onto fascia boards.

8.4

Reposition the exisiting lead to complete the external installation

8.5

We advise carrying out a water test for both steel and composite slate tile installations. This should be done before internal work commences.

YOUR FINISHED ROOF

9. WHAT NEXT?

To complete your Equinox installation, you will need to finish the roof off internally. **Please note:** the materials to complete this part of the job are not supplied.

FOR A PLASTERED FINISH

To achieve 0.15 U-value
To meet Building Regulations in Scotland
Use a 65mm PIR insulation and plaster board

To achieve 0.18 U-value
To meet Building Regulations in England and Wales
Use a 50mm PIR insulation and plaster board

Optional downlights (not supplied) can be installed before decorating is undertaken.

Alternatively, tongue and groove effect is popular among customers.

9

ALSO AVAILABLE

Visit **eurocell.co.uk** to find more installation guides and installation videos for Eurocell products.

eurocell®

All together better

EQUINOXINSTALL/APR15/H&S