

1. Getting Started:

Please ensure that you follow the installation guidelines and the correct procedures as any variance to this will void your warranty.

When getting started, be sure that you have all the necessary fitting materials together.

Additional Material Required:

Roof Base: Eco Slates must be installed onto 18mm ply board or oriented strand board (OSB). It is also recommended that all previous roofing materials be torn off prior to installation.

Underlay: A minimum of one layer of breathable membrane must be installed over the entire roof. **The use of any other tar-based felt underlay will void your warranty.**

*** For AA Fire Rated Roof Systems use Vulcan Firefly underlay***

Nails: Eco Slates must be secured using the relevant size, copper, stainless steel or hot-dipped galvanised nails.

Flashing: Eco Slates can be used on valley's, ridges and as under flashings (soakers), utilising their unique flexibility. For pitches below 20 degrees it is highly recommended to use the Eco Slates, as they can be fitted to a vertical, enabling cap flashing to be dressed over it. Ensure flashing lap is sufficient for adequate weatherproofing. We do not advise using existing flashing, however, if this is being used, then it is imperative to ensure existing flashing is sealed to the Eco Slates.

Vents: All roof structures should be vented in order to allow heat build-up and moisture to escape the attic area. Vents are to be placed proportionately at the eaves/soffits. Dry Ridge or Slate vents should be used.

Important Reminder:

Always ensure that your roof has adequate roof ventilation regardless of the roofing material being used. If not, you may be at risk of serious structural damage.

<http://www.planningportal.gov.uk/permission/commonprojects/roof>

2. Tools:

Hammer/Nail Gun, Chalk Line, Stanley Knife/Snips (or any preferred cutting equipment).

Slate Details:

The lines are a guide to the lap of each slate.

These are to be used as a guide only.

Quantities: -

Above 20 degree pitch = average 17 slates per sqm, 15-20 degrees = average 19 slates per sqm,

10-15 degrees = average 22 slates per sqm

Installation Procedure:

Prepare roof base ensuring that the area is clean and free from debris, dirt and sharp edges.

When laying the breathable membrane, make sure that the underlay is as flat to the base as possible.

Step 1:

Lay the first row of slates as a starter course with no more than 30mm overhanging the roof board.

Step 2:

Lay the second row directly on top of the starter course, stagger the slates so that the centre of the second row is on the gap of the starter row. Cut slates at ends of row to suit with Stanley knife.

Step 3:

Stagger the third row with the second row ensuring required lap is achieved using the guidelines.

Step 4:

Stagger the fourth row in a similar fashion to that of the previous rows, ensuring required lap is achieved. Follow this procedure up the roof until the ridge is reached.

Step 5:

Ridges & Hips:

Eco Slates can be used as a ridge and hip (7 per running metre). *Please ensure induced bonding with warm air gun when necessary.* A conventional ridge or dry ridge system can also be used.

Valley's:

Eco Slate can also be used for valleys by **(Please note; these must be fitted BEFORE roof slates are fitted)** Conventional valley materials such as lead can also be used.

Full Installation Guide, visit - www.ecosystemsdistibutions.com