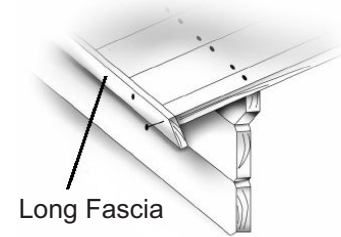
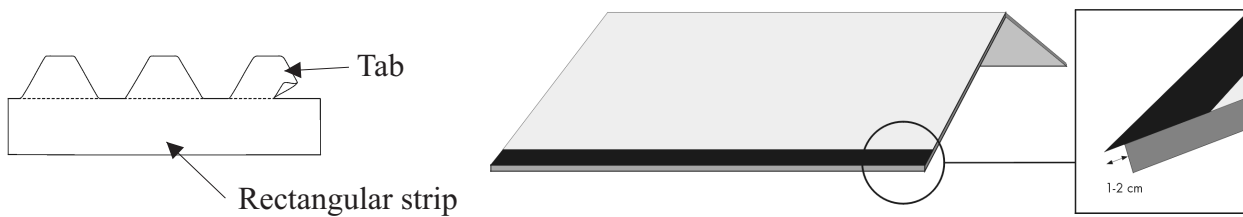


Installation of Bitumen Shingles

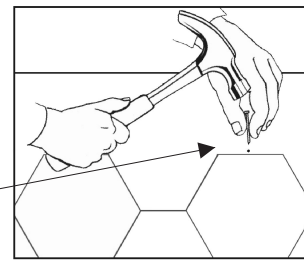
The bitumen shingles are attached directly to the roof boards. They are best fitted when the ambient temperature is above +5 C. The surface of the roof must be dry and clean. **Please ensure all roofboards and the long fascia which is attached to the bottom edge of the roof have been fitted.**



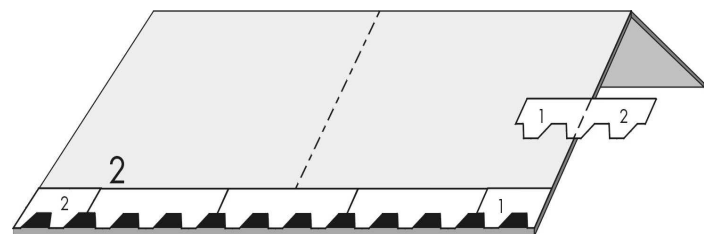
The eave strips must be installed first. Make these strips by cutting the hexagonal part of the tile (or 'tab') off, in order to leave a rectangular strip. (Note keep the tabs as they will be required later.) In order to ensure draining of water, it is recommended to leave the eave strip 1 - 2 cm over the eave's edge. **Remember to remove the covering film from the underside.**



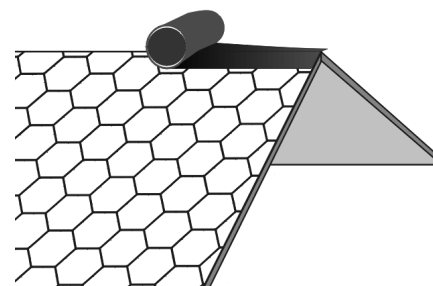
Start the installation of bitumen shingles from the centre of the eaves. At the ends of each row cut the tile to the edge of the roof. Then use this off cut to start the next row at the opposite end.



Fasten shingles with the clout nails (**2cm from the upper edge of marked points**). After nailing the first row of shingles, position the next row in alignment with the previous row. This next row must also cover the nails of the previous row.

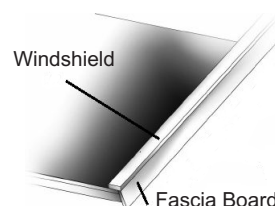


Cover the side of the roof up to its top (about 5 cm from the top may be left uncovered). Cover the other side of the roof as well. You will now need to use the 'tabs' to completely cover the joint where the last row of shingles butt end to end and completing the hex pattern right up to the top of the ridge.



Fit the ridge strip as shown, nail with clout nails approximately every 10 cm. (Alternatively use a heat torch to fix the ridge strip, so that the nails are not required)

When you have finished fitting the shingles, fix the wind covering boards and fascia boards as shown. It is easier to fit these together first then offer up to the roof and secure through the purlins.



Please Note. The underside of bitumen shingles are covered with self-adhesive material, which adheres when the weather is warm.