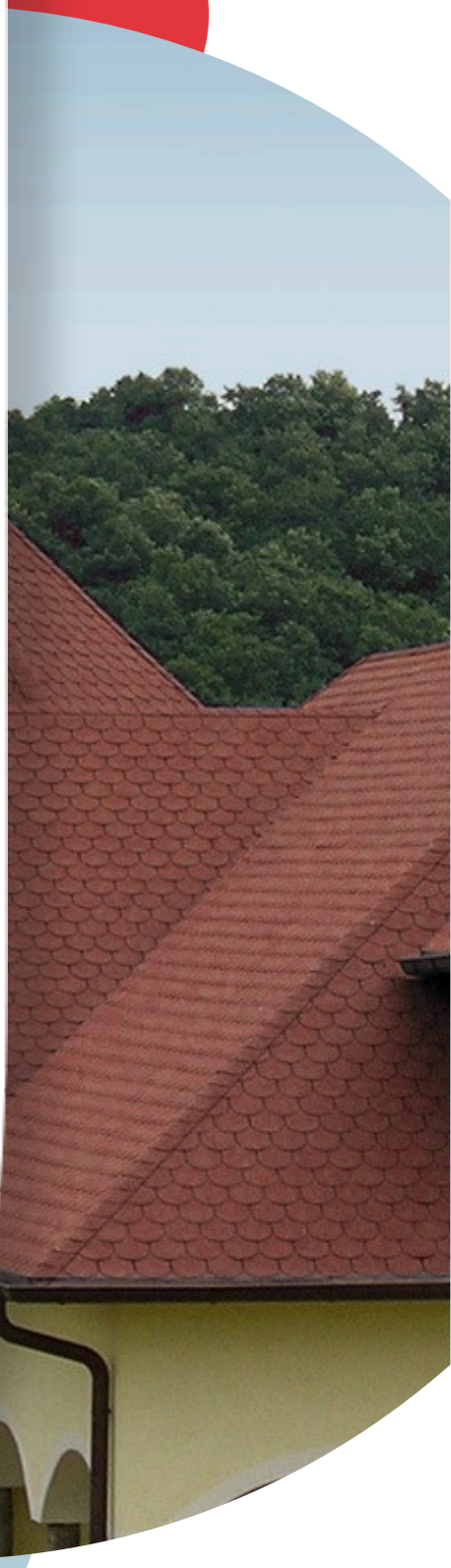
ONDULINE®

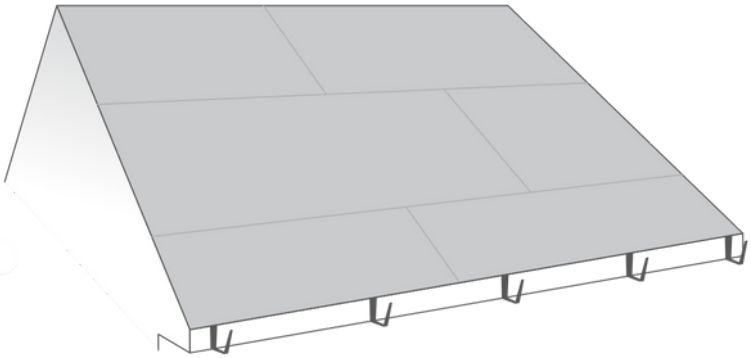
LIGHTWEIGHT
ROOFING
SYSTEMS



Onduline®
Lightweight Roofing Systems

ROOF PREPARATION - ROOF DECK

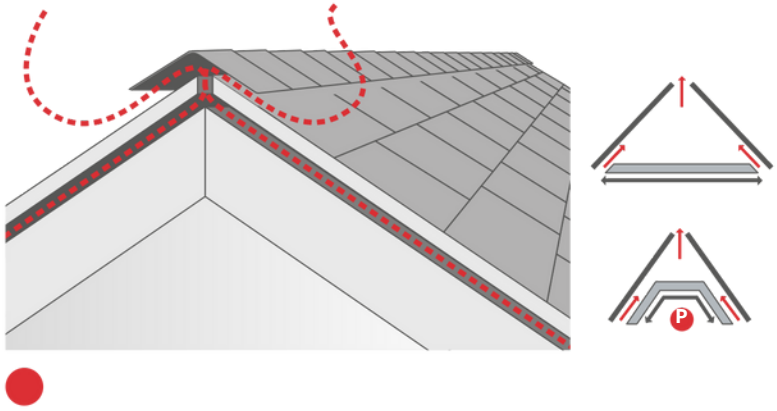
The roof deck must be smooth, firm, dry and securely fastened. The deck should be made of good quality plywood, sheathing boards or non-veneer structural panels (wafer or strand board). Wooden boards can be maximum 15 cm wide. The thickness of the deck depends on the span between the beams. Decking should be installed in a staggered manner and sufficiently supported. Failure to use proper decking material, which can provide a rigid deck surface, can result in deck movement which can damage the shingles.



VENTILATION

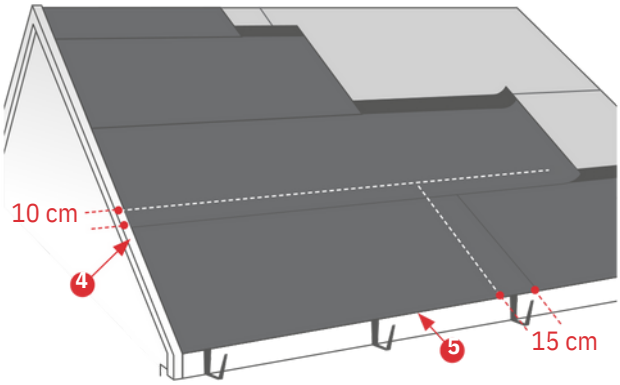
It is essential to allow heat dissipation and water vapour to escape the roof system through proper ventilation. Therefore, air must be able to circulate freely between insulation and the nailable roof deck, from the eaves to the ridges.

On roof pitches 15°- 40° the minimum net free ventilation area is 33 cm2, on 41°- 85° min. net free ventilation area is 16 cm2 for each 1 m2 of insulated ceiling area **P**, always divided evenly between the eaves and the ridge.



UNDERLAY

It is advised to cover the entire roof deck with ONDUTISS® STRONG or any other bitumen based overlay and seal all overlaps. **End overlaps must be 15 cm and horizontal overlaps 10 cm**.



INSTALLATION GUIDELINES

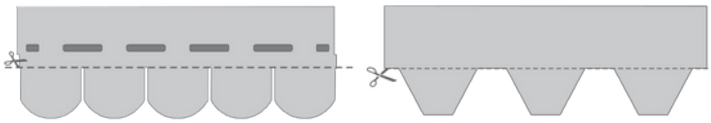
NAILING & SEALING

Proper fastening is essential for a good roof. Drive the nails straight so that the nail heads are flush with, but not cutting into the shingle surface (Figure 10). Always nail 2,5 cm above the cut-out and 2,5 cm from each edge. Note that steep slope application (> 60°) or high wind areas require extra nails and hand sealing with **ONDUMASTIC** or other silicone sealant.

STARTER STRIP

Prepare the starter strip by cutting off the shingle tabs along a line level with the top of the cut-outs. Begin the starter strip by cutting the strip half a tab short so that its jointas will not line up with the joints of the first course of shingles.

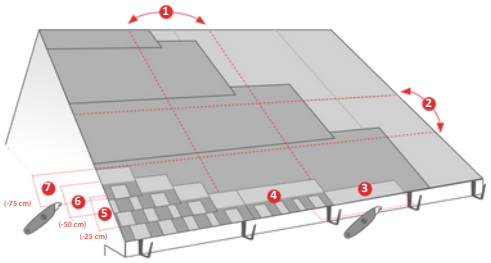
The starter strip should overhang the eaves by 6-10 mm and the rakes where applicable. For laminated shingles use rectangular shingles.



FIRST COURSES & APPLICATION PROCEDURE

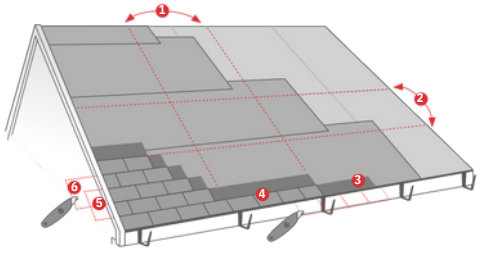
- **First course 4**:

Start with a complete shingle applied flush with the starter strip at rake and eaves. Nail as shown in Figure and continue across the roof with full shingles.



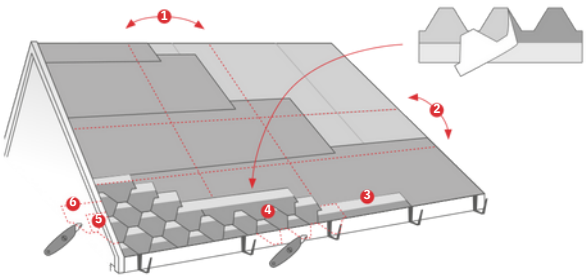
- **Second course 5**:

Cut half a tab from a shingle and start at the rake end. Nail the shingle so that the lower edge of the tabs is flush with the top of the cut-out of the shingle in the first course.



- **Third and succeeding courses 6**:

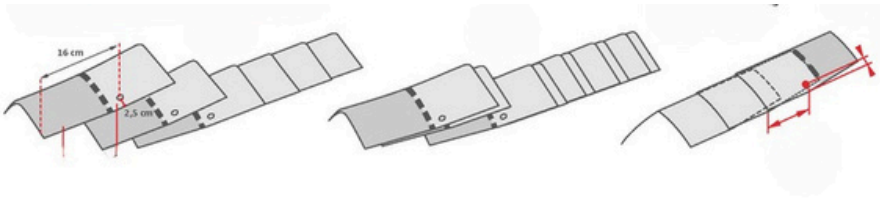
Start the third course with a shingle from which a full tab has been cut. Cut off an additional half tab for each succeeding course. For maximum protection against wind driven rain, glue the shingle at the rake edges.

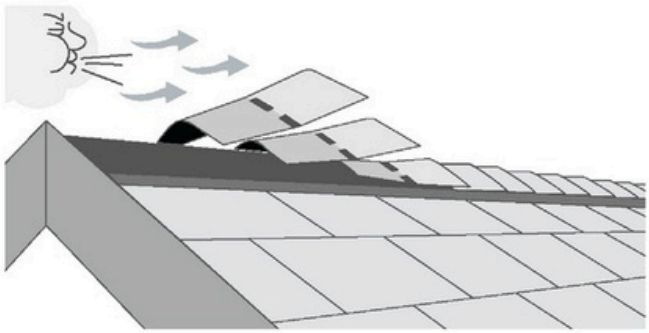


INSTALLATION GUIDELINES

HIPS AND RIDGES

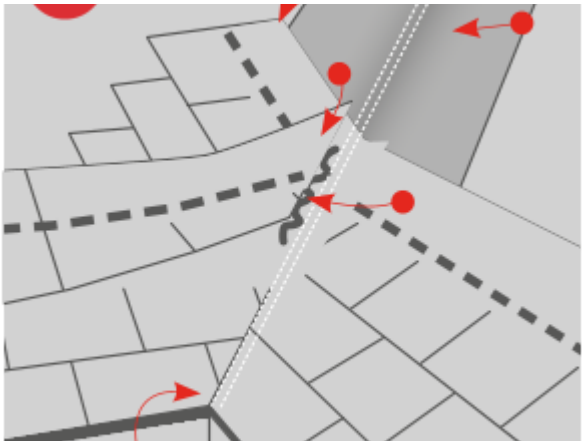
Adjust the last few courses of shingles so that the ridge capping will adequately cover the top courses of shingles equally on both sides of the ridge. Before installing bend carefully and position them over the ridge line. If necessary heat them on the reverse, sanded side. Fix the ridges with 2 nails on each piece which will be overlapped by the following piece. The exposure of the ridge is 14.5 cm. Apply the hip and ridge shingles double thickness by stacking two pieces and bending them over the hip or the ridge.

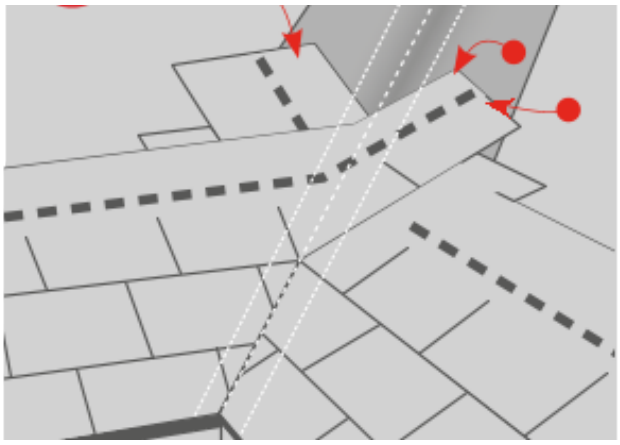




VALLEY

Prepare the valley with one layer of self-adhesive underlay with 30 cm laps. Alternatively, use a layer of ONDUTISS® STRONG or an approved shingle underlay, nailed 2,5 cm from the edge. Laps should be 30 cm and glued.





CLOSED CUT METHOD

Start applying on roof plane with the lower slope or biggest surface. The starter strip must be woven 1 (extend + 25 cm onto adjoining roof plane). Extend the end shingle at least 30 cm on the adjoining roof. Do not nail within 15 cm of valley centreline. Use one extra nail 2 at the end of each shingle crossing the valley. After completing this roof plane, snap a chalk line 3.5 cm from centre line on roof plane still to cover. Apply the shingles onto second plane, trim shingles to the line and cut a 5 cm triangle 4 off the top corner to direct the water into the valley. Glue the valley end of each shingle with ONDUMASTIC or other bituminous sealant

WOVEN VALLEY METHOD

Install the shingles through the valley intersection. The last shingle should extend at least 30 cm onto the intersecting roof surface 1 fastened with an extra nail at the upper corner of the shingle 2. Press the shingles tightly into the valley before nailing. No nailing within 15 cm of the valley centreline.

ABOUT ONDULINE®

For about **80 years**, ONDULINE® strategy has successfully combined growth and international development.
The cellulose-bitumen-based roofing and under-roofing material known as ONDULINE® was invented and launched in the French market in 1944 by Gaston Gromier.

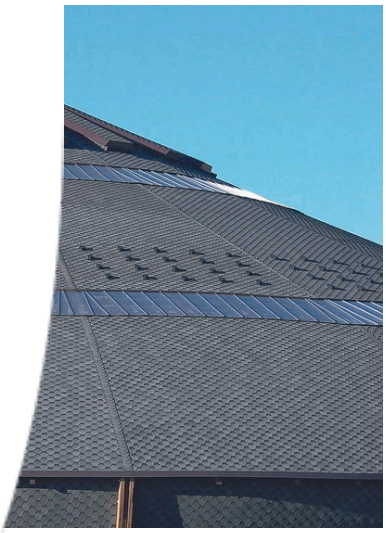
Specialized in **innovative roofing systems**, the group has been growing since then, until leading the market of lightweight roofing systems.

We are the undisputable leader in this segment, manufacturing **more than 95%** of world production of bitumen sheets.

ONDULINE® is part of Kingspan's Roofing and Waterproofing division.

Working alongside Kingspan since 2022, we both share common goals: to thrive as an international group and cultivate an entrepreneurial and collaborative culture.

Our shared focus is on **growth, providing excellent customer service**, and **accelerating the transformation** of building solutions towards **more eco-responsible solutions.**



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