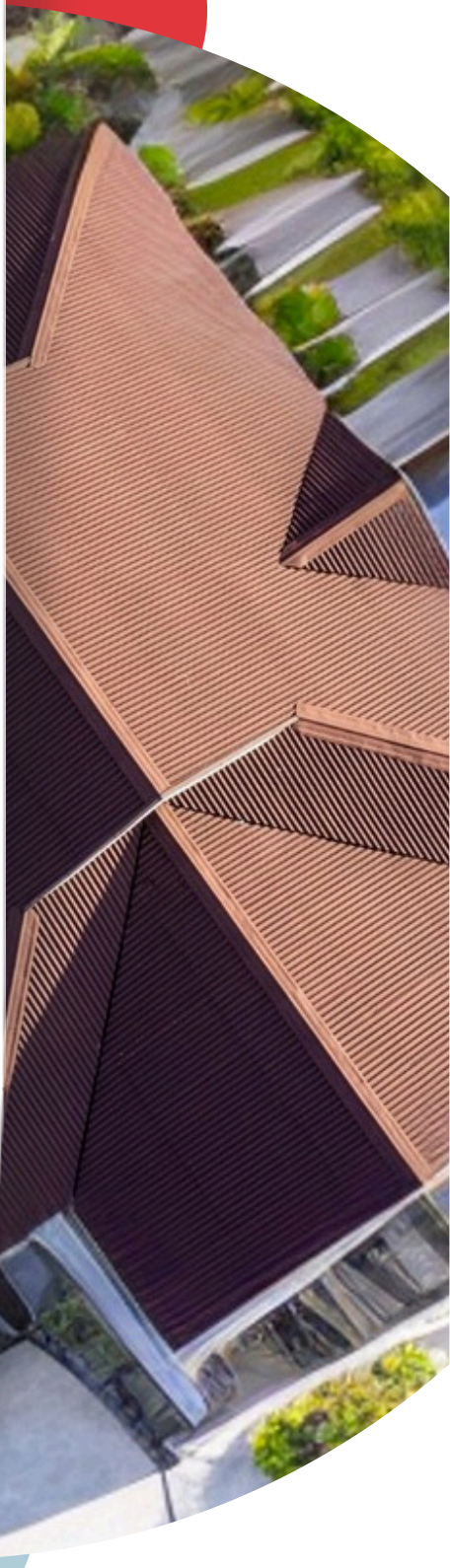
ONDULINE®

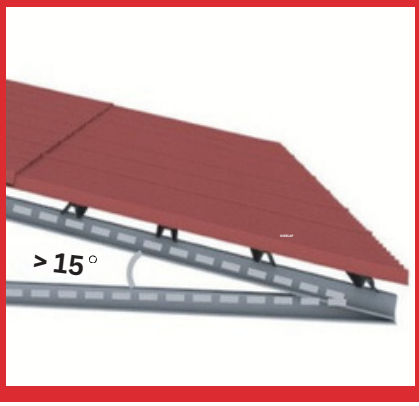
LIGHTWEIGHT
ROOFING
SYSTEMS



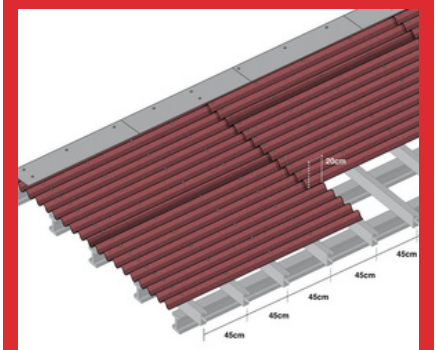
Onduline®
Lightweight Roofing Systems

INSTALLATION GUIDELINES

Minimum Roof Pitch
15

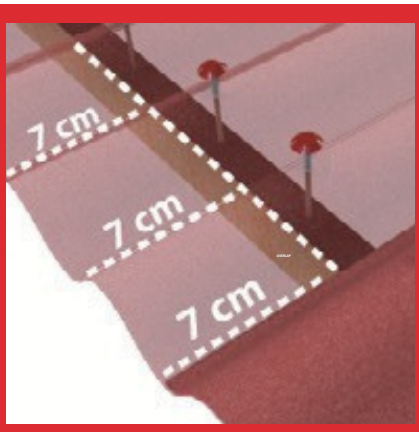


Purlin Distance
45 cm

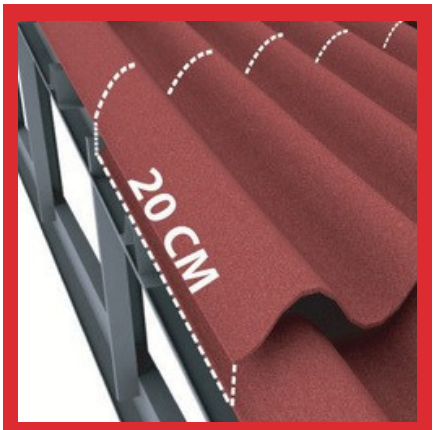


No. of Screws
18

9+3+3+3



Overhang at eaves
7 cm

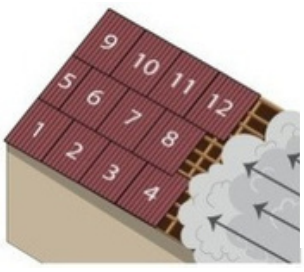


Minimum end overlap
20 cm

Minimum side overlap
1 Corrugation

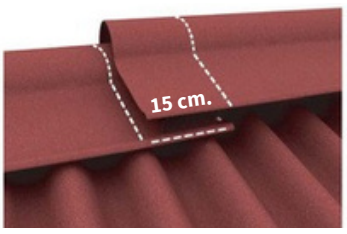
General

Start fixing sheets opposite to prevailing winds end of the roof. Start every second row with a sheet cut in half vertically. Using a broken bond pattern reduces chance of water leakage.



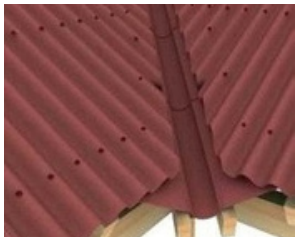
Ridge

The ridge element should overlap the ONDULINE® sheet minimum **15 cm**.
8 Screws should be drilled per ridge. Add an extra purlin when necessary if the distance between the last purlin and the ridge is too wide.



Valley

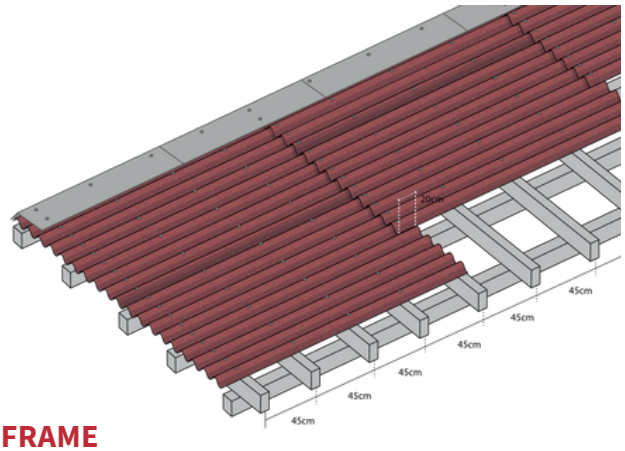
Fix valley board / trim purlin and line with ONDULINE® valley. The sheets are cut across (parallel to the valley line). The max overhang should be **4 cm.**

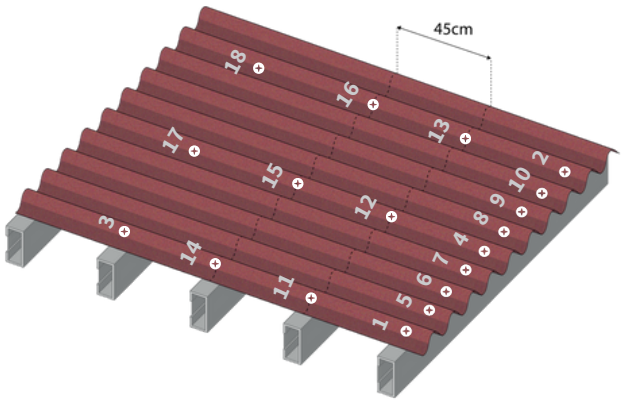


Verge

The aesthetics and wind uplift protection can be optimized by using the verge element accessory, which is fixed first on the sidewall, as well on the top of the corrugation.

INSTALLATION GUIDELINES



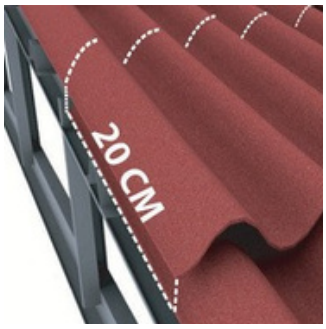


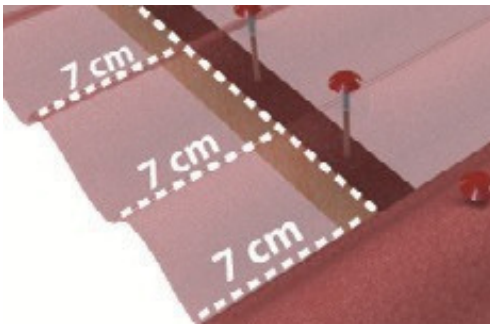
FRAME

- **For roof pitches 15° and above,** ONDULINE® sheet shall be supported by purlins with width distance of **45 cm center to center.**

FIXING

- **18 screws** should be drilled per sheet.
- **9 screws** at each corrugation at the end overlap or eaves.
- **3 screws** at first intermediate purlin of the sheet.
- **3 screws** at second intermediate purlin of the sheet.
- **3 screws** at third intermediate purlin of the sheet.





OVERLAP

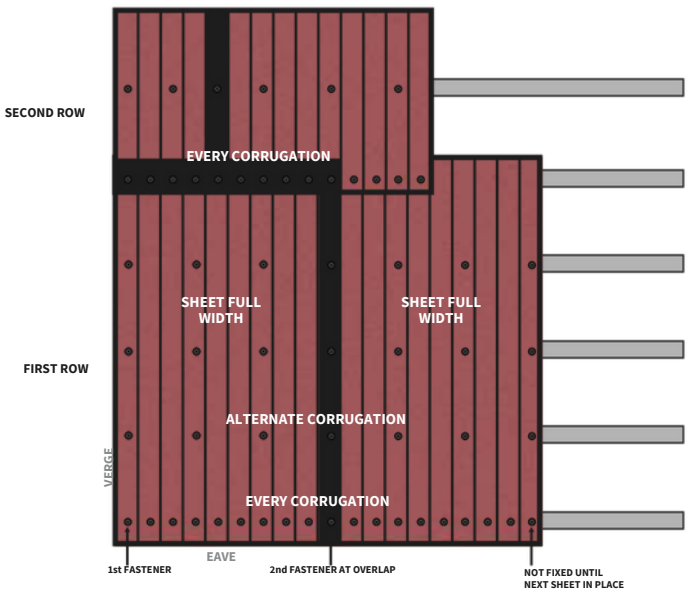
- For the end overlap, use minimum **20 cm.** For the side overlap, use minimum 1 corrugation. Screws should be drilled at each corrugation at the end overlap and side overlap. To have a long lasting and guaranteed roof, it is mandatory to follow the nailing order and pattern.

EAVES

- The sheets overhang at the eaves should **not be more than 7 cm.** Please set this distance while elaborating the roof project.

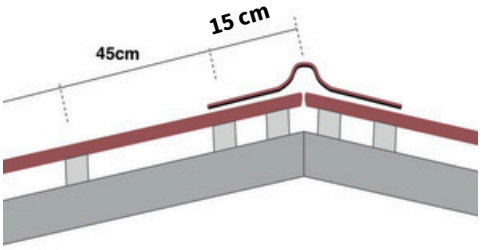
DETAILED FIXING STEPS

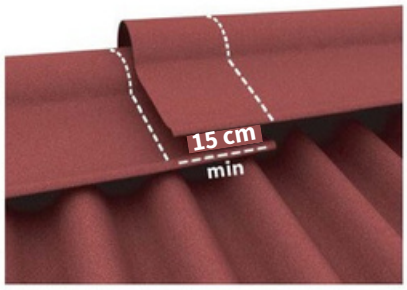
- Start every second row with a sheet cut in half vertically in order to avoid side overlaps in the same line on all length of the roof, thus creating a broken bond pattern.
- Using a broken bond pattern reduces the overall thickness of the overlapping.
- Following the overlapping rules is important to ensure a total waterproofing over time.
- Fastening must always be carried out at the top of corrugation. Be careful to avoid over compressing of the corrugation.

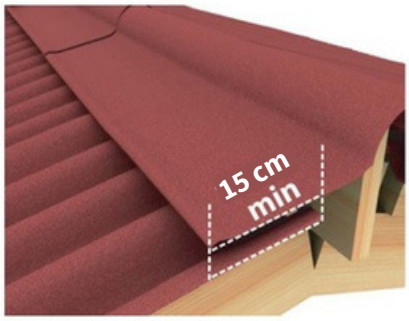


INSTALLATION GUIDELINES

RIDGES

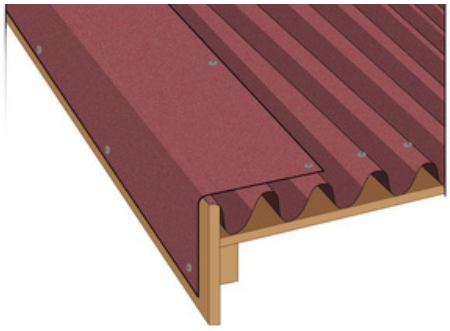






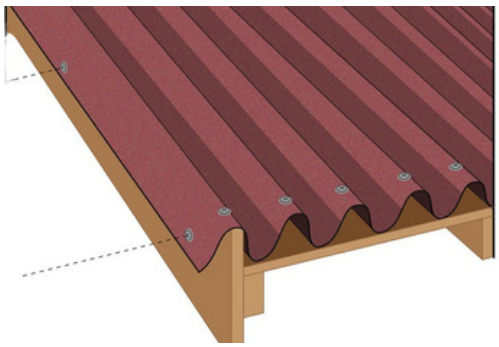
- Use a ridge plank to support the ridge.
- The ridge element should be fastened at each corrugation of the overlapped sheet.
- Add an extra purlin when necessary if, the distance between the last purlin and the ridge is too wide.
- Start fixing the ridge element opposite to the prevailing winds end, of the roof.
- The ridge element should overlap the ONDULINE® sheet at **minimum 15 cm.** Lay ridge elements with a **minimum overlap of 15 cm.**

VERGES



COVERING WITH AN ONDULINE® VERGE ELEMENT

- Fasten bargeboard level with top of ONDULINE® sheet.
- The ONDULINE® verge is then overlaid and nailed into position.

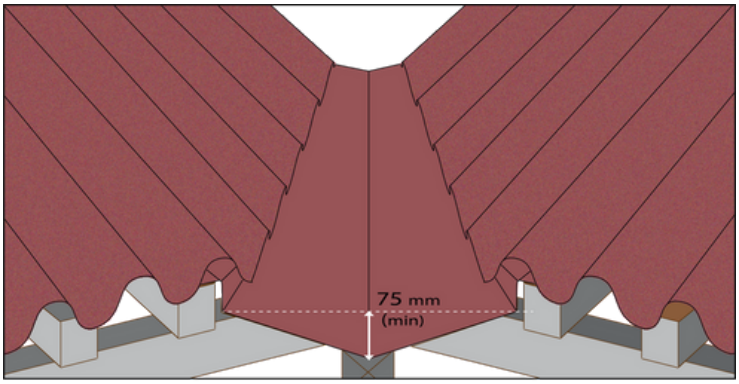


COVERING WITH AN ONDULINE® SHEET CORRUGATION

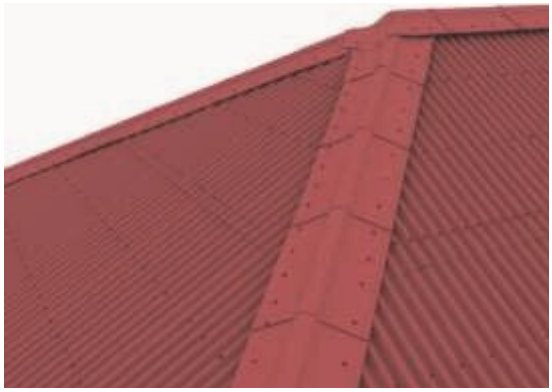
- Fasten bargeboard to reach the underside of ONDULINE® of overhang corrugation. Fold down and nail into position.

VALLEY

- Fix valley board / trim purlin and line with metal pre-formed unit.
- The vertical valley depth should be sufficient to allow the water to flow.
- The sheets are cut across (parallel to the valley line). The **overhang is max 4 cm.**
- You can use ONDULINE® valley or a metal valley.

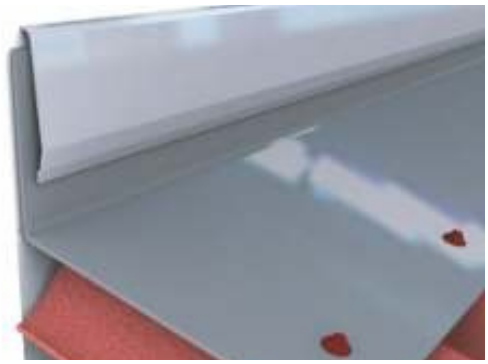


INSTALLATION GUIDELINES



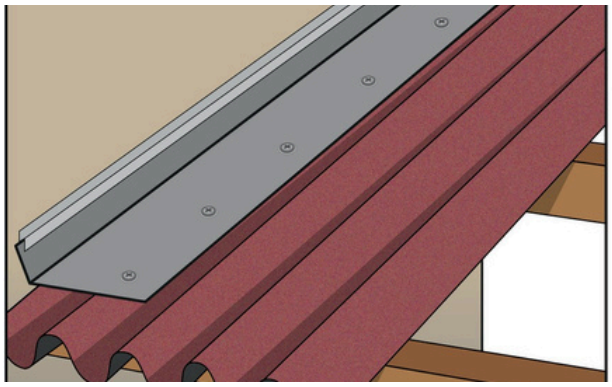
HIP DETAIL

- Fix the hips before the ridge element. Overlay with the hip elements and fix it as shown on the picture.



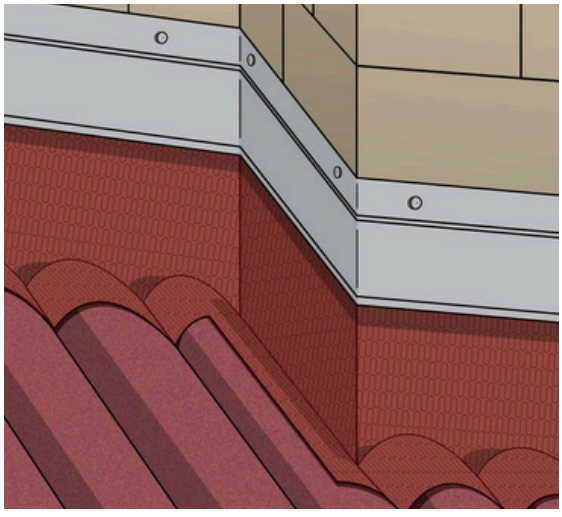
END WALL ABUTMENTS

- Use pre-formed plate of metal to seal end wall abutment enabling the ventilation. Use a separate cover flashing for the wall.



SIDE WALL ABUTMENTS

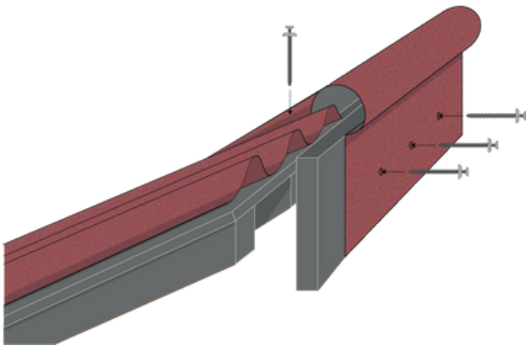
- Use a pre-formed plate of metal flashing to seal side wall abutment. Take into consideration the possible dilation while drilling.



HARD COVER FLASHING TO WALL

- Use a pre-formed plate of metal flashing to seal side wall abutment.
- Take into consideration or possible dilation while drilling.
- Use ONDULINE® flashing tape or ONDUBAND® as cover flashing to the wall.

INSTALLATION GUIDELINES



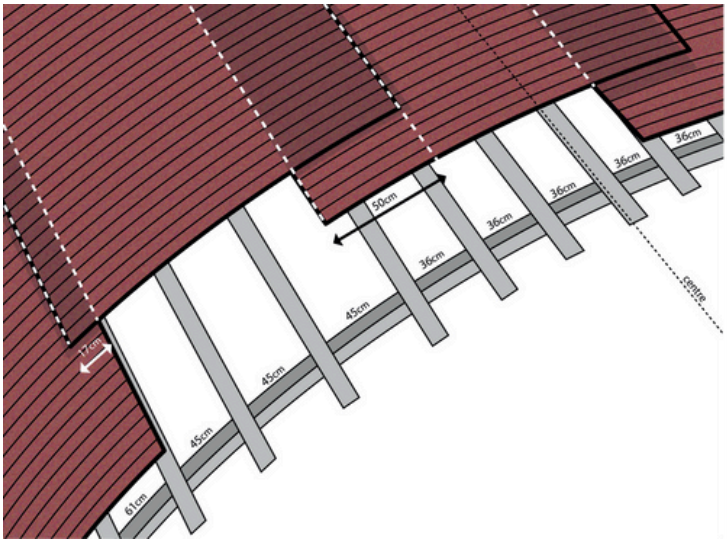
END ROOF

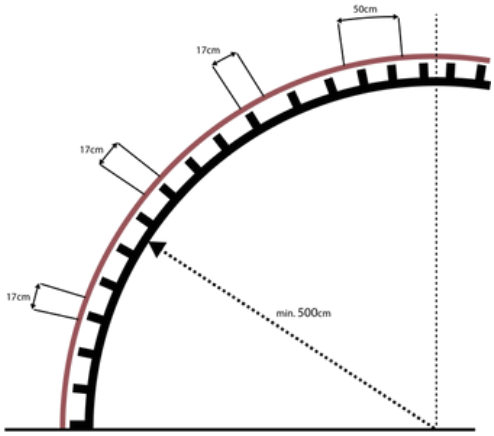
- Fit ridge board and purlin. The ONDULINE® ridge unit is then overlaid and nailed or screwed into position.

SKYLIGHT - ONDUCLAIR® PC

- Perfect complement to the ONDULINE® corrugated sheet. Follow same principles as ONDULINE Classic sheet.

CURVED ROOFS / DOMES





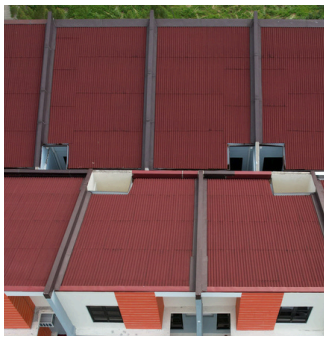
- When the frame design is established, continuously setup the lines courses to get the right positions of purlins
- Top dome :

1. (pitch < 17%) - maximum span is **36 cm.**
2. 17% < pitch < 27% - maximum span is **45 cm.**
3. Pitch > 35% - maximum span is **60 cm.**
4. A t rooftop (slope = 0%)

- Avoid sheet overlap (lay the top sheet centered in its middle).
- No sheet overhang more than **7 cm.**
- Side lap: **2 corrugations.**

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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