

# ONDUVILLA® LIGHTWEIGHT ROOFING TILES



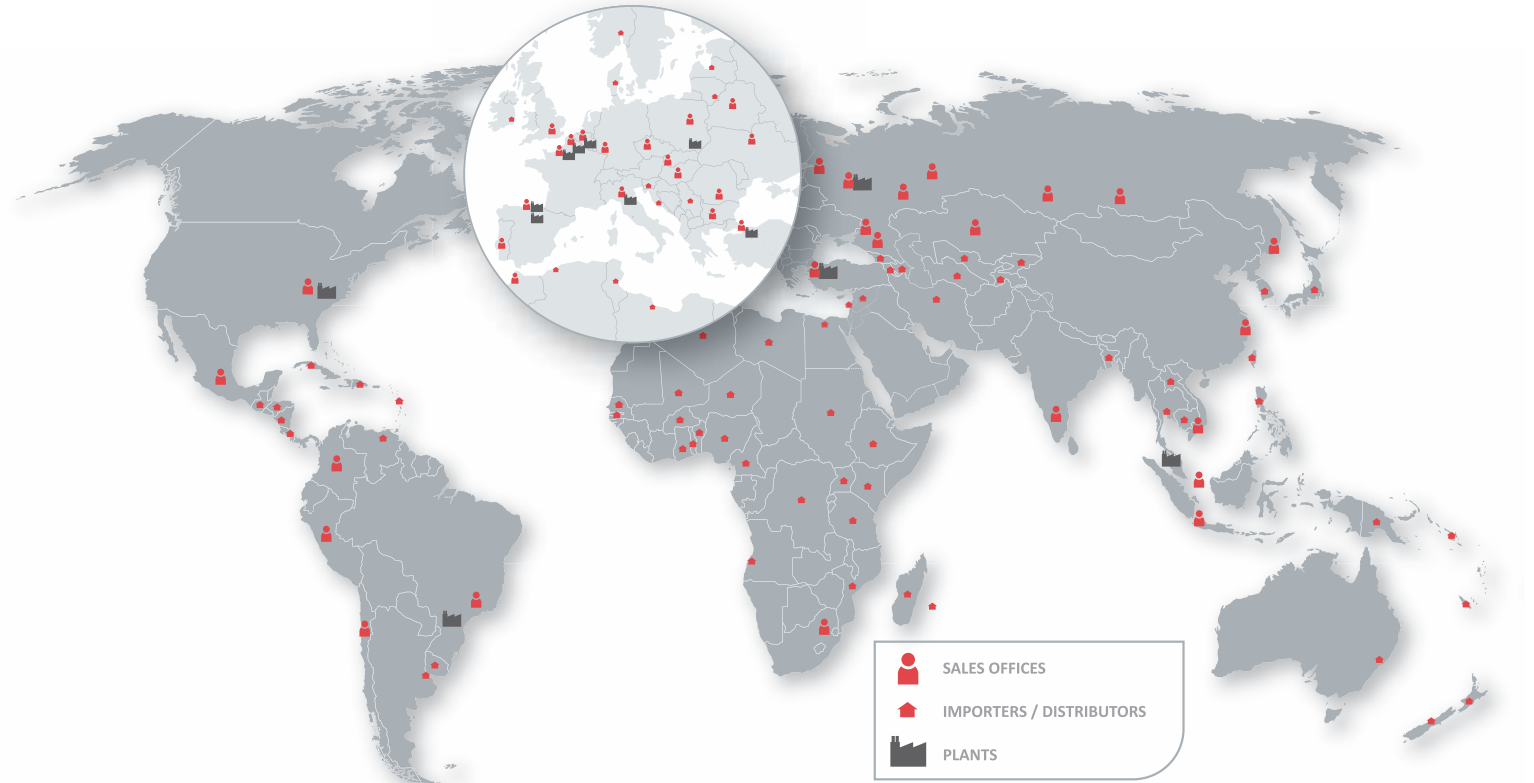
**ONDUVILLA®**  
by **Onduline®**

# Ride the wave of leadership!

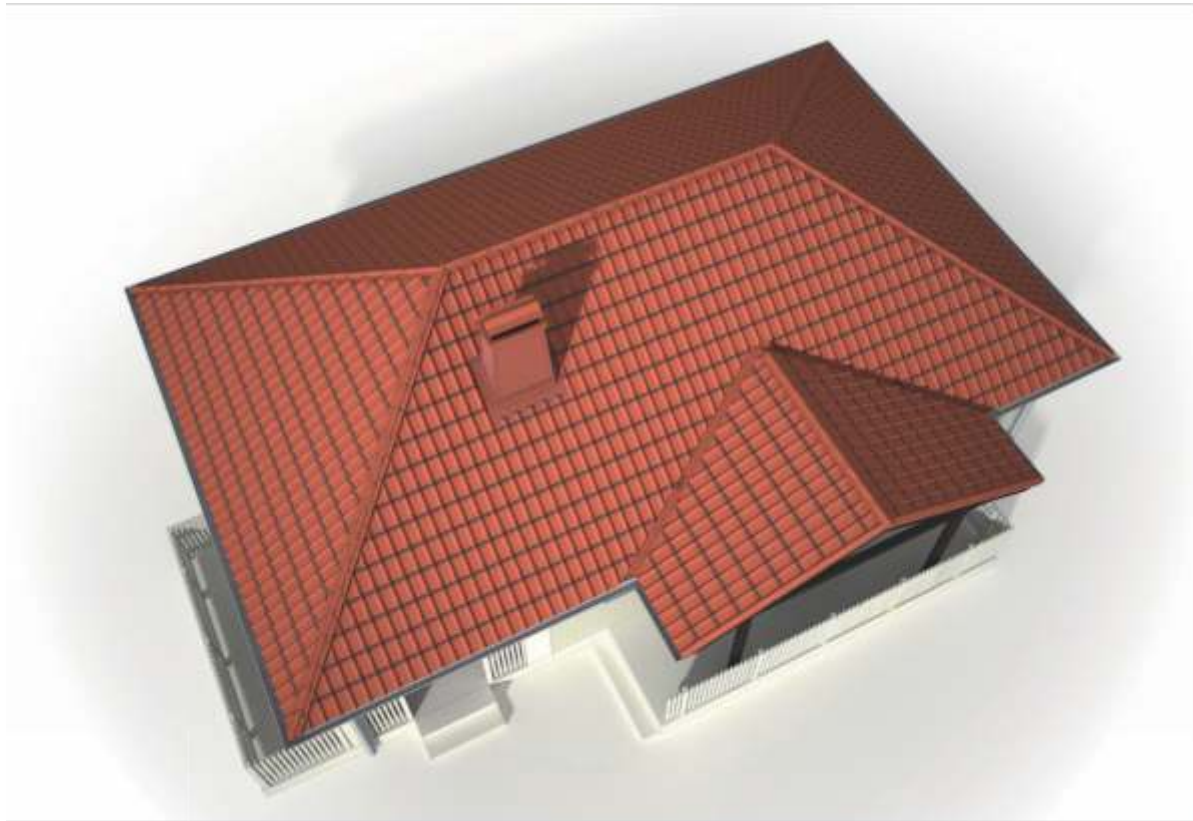
**Onduline®,  
always close to you!**

The Onduline® story began in 1944 when the brand was created in France. That's when we first introduced our **cellulose-bitumen-based roofing and under-roofing material**. By 1964, we opened subsidiaries in Germany and Italy too, and for the next two decades, we continued expanding throughout Western Europe. In the early 1990s, following **major innovations** and **key acquisitions**, we branched out into Eastern Europe. And during the last decade, we continued riding a wave of expansion throughout South America and East Asia as well. Today, we're delivering **high-performance products** and **award-winning solutions** to more than 100 countries across the globe – with a keen focus on **design, reliability** and **user-friendliness**. Thanks to our unique global presence, we're close to our customers and able to listen to their needs, allowing us to develop reliable solutions they can enjoy in any type of weather.

“more  
than **120** countries  
across the globe”



# Ride the wave of aesthetics!



## Outstanding design

You want more than a reliable solution for your home. Naturally, you also want a roof that looks great! ONDUVILLA® tiles have been carefully developed by our designers to give them **an attractive clay-tile resemblance**. And horizontal shadow imitations are painted on to give the thick, distinctive, raised appearance of traditional Mediterranean roofs.

You can enhance your home with a system that adapts seamlessly to all roof shapes and sizes. **All the components match brilliantly**. The result is an aesthetic solution you're sure to be proud of!

**“ONDUVILLA®**  
tiles fit seamlessly **into all shapes** of your roof and  
**match brilliantly”**



## References

## Individual Residences

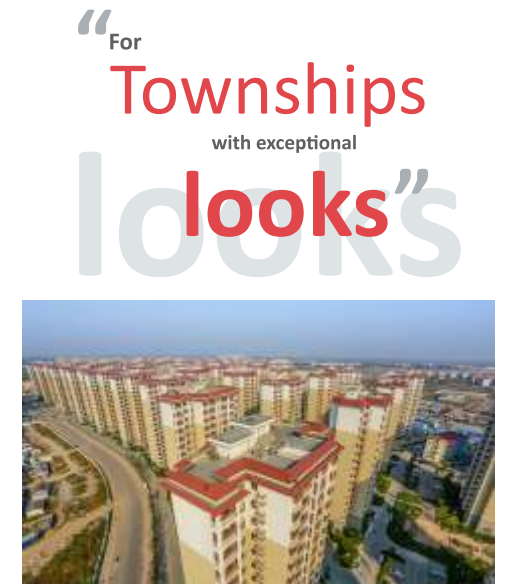


“An aesthetic solution  
you’re **sure** to be  
**proud** of”





## References



## Residential Clusters

“For  
Townships  
with exceptional  
looks”



## References

## Leisure Homes



**“ Holiday  
under your own  
Leisure roof ”**





“For Resorts as  
**Beautiful**  
as the surroundings”





**“Expand** your imagination  
and  
**living space”**





# COLORS



**Slate Grey**



**Shaded Red**



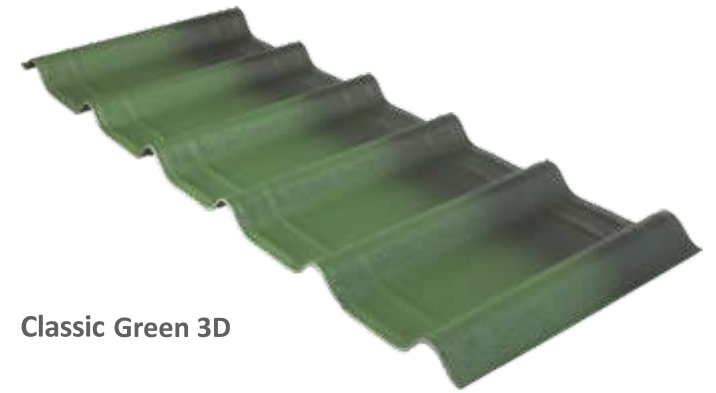
**Shaded Brown**



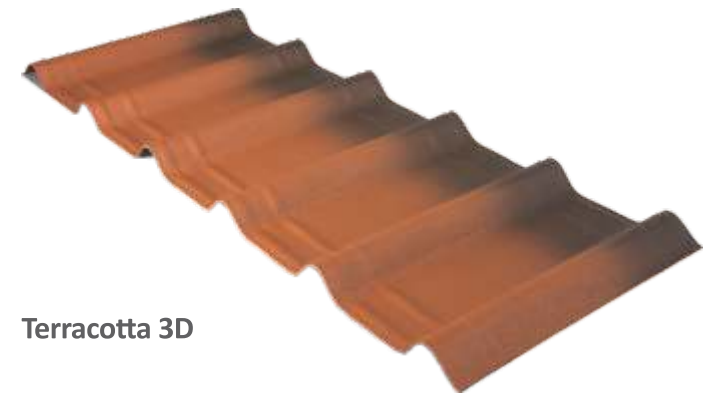
**Shaded Green**



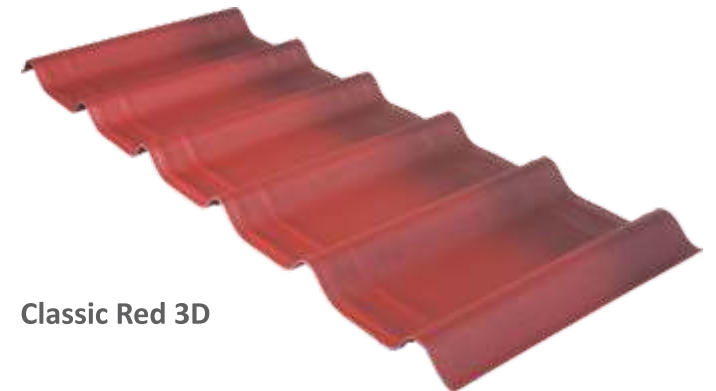
**Ebony Black**



**Classic Green 3D**



**Terracotta 3D**



**Classic Red 3D**

# Product Details

## TECHNICAL CHARACTERISTICS

- Standard length: 106 cm
- Standard width: 40 cm
- Thickness: 3 mm
- Wave height: 4 cm
- Surface covered per tile: 0.31 m<sup>2</sup>
- Tiles per m<sup>2</sup>: 3.23 pcs
- Weight per tile: 1.27 kg

## BENEFITS

- Aesthetics
- Watertight
- Complete and comprehensive system
- Lightweight – only 4 kg/m<sup>2</sup>
- Environment friendly – carbon footprint only 4 kg eq CO<sub>2</sub>/m<sup>2</sup>
- Asbestos free



LIGHT WEIGHT



AESTHETIC



WATER PROOFING



REDUCES RAIN NOISE

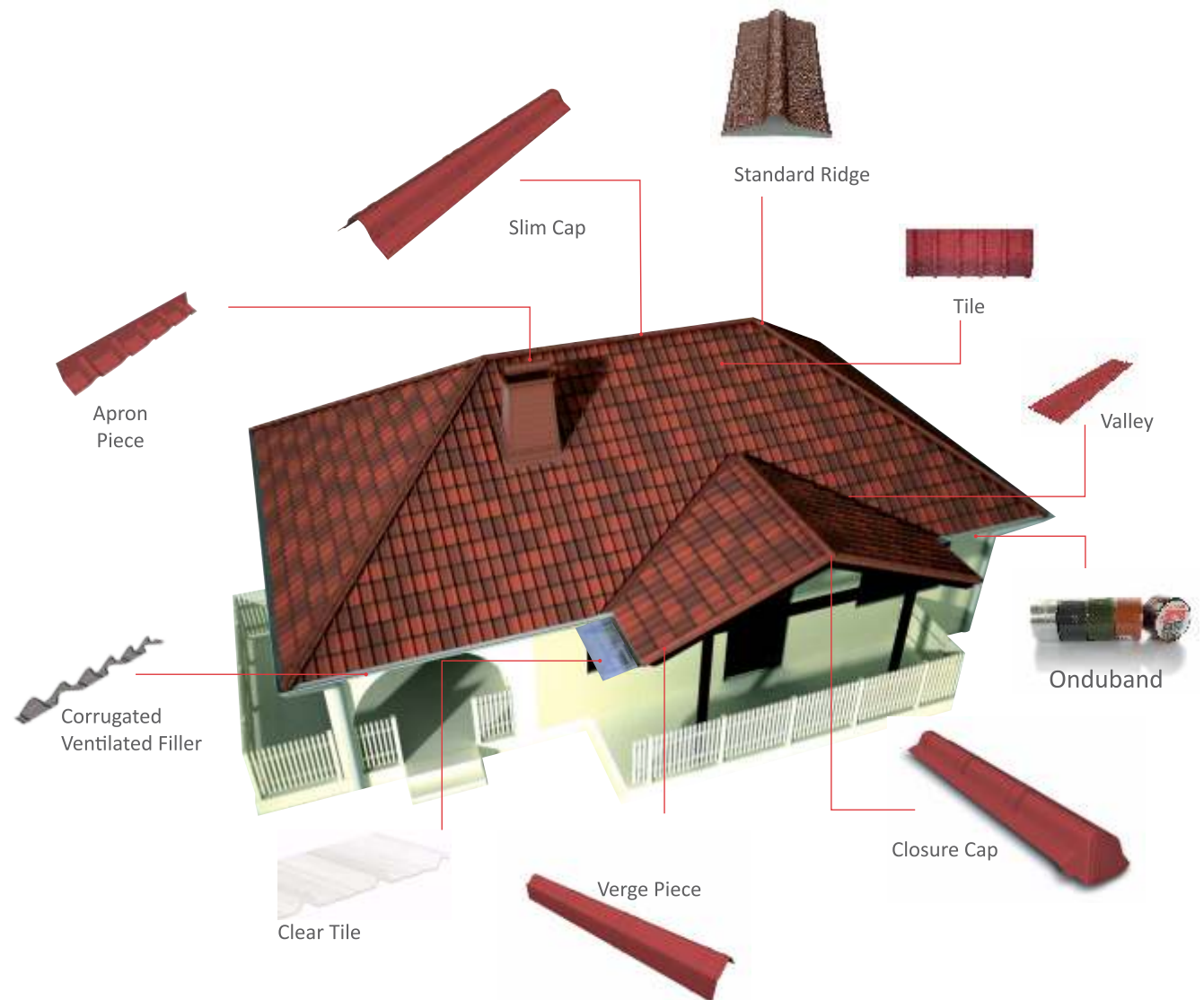


HIGH WIND RESISTANT



ECO-RESPONSIBLE

## SYSTEM






# Accessories

## 1 SLIM CAP

	Colour	Description
	Shaded Red	Cap for ridge and hips, for roofs with a pitch up to 120% (or 50°).
	Shaded Green	
	Shaded Brown	
	Anthracite Black	
	Terracota	
	Classic Red	
	Classic Green	
	Slate Grey	
	Ebony Black	1060mm x 175mm


## 2 APRON PIECE

	Colour	Description
	Shaded Red	Designed to provide water tightness and ventilation to the ridge line for roofs with a pitch up to 120% (or 50°). Can also be used to seal the gap between ONDUVILLA® and vertical wall abutment.
	Shaded Green	
	Shaded Brown	
	Anthracite Black	
	Terracota	
	Classic Red	
	Classic Green	
	Slate Grey	
	Ebony Black	1020mm x 140mm

## 4 CLOSURE CAP

	Colour	Description
	Shaded Red	Designed for the finishing of ridge and hip lines (pitch up to 120%).
	Shaded Green	
	Shaded Brown	
	Anthracite Black	
	Terracota	
	Classic Red	
	Classic Green	
	Slate Grey	
	Ebony Black	1060mm x 175mm

## 4 Valley

	Colour	Description
	Red	Used to collect rainwater flowing into the valley with 3 corrugated barriers on each side.
	Green	
	Brown	
	Black	
		2000mm x 432mm

## 5 STANDARD RIDGE

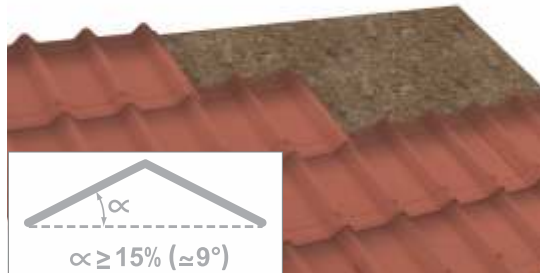
	Colour	Description
	Shaded Red	Flexible double wings accommodate a wide range of roof angles.
	Shaded Green	
	Shaded Brown	
	Anthracite Black	
	Terracota	
	Classic Red	
	Classic Green	
	Slate Grey	
	Ebony Black	1000mm x 420mm

## 6 VERGE PIECE

	Colour	Description
	Shaded Red	Designed to provide a neat aesthetics at the edge of the roof. Can be used for both sides right/left.
	Shaded Green	
	Shaded Brown	
	Anthracite Black	
	Terracota	
	Classic Red	
	Classic Green	
	Slate Grey	
	Ebony Black	1000mm x 405mm

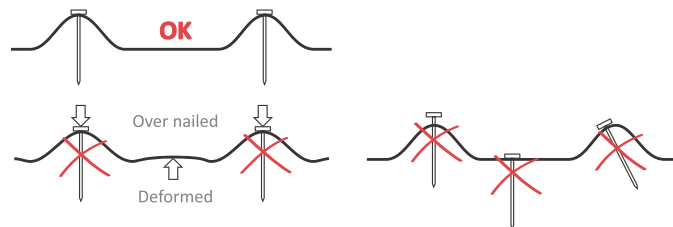
# ONDUVILLA® fixing guide

## MINIMUM ROOF PITCH TO BE 15°



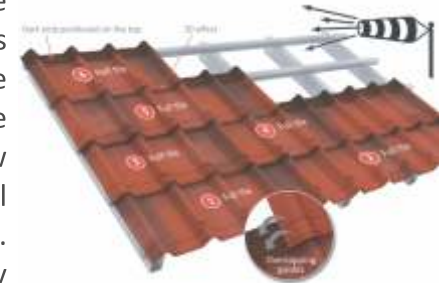
## FIXING

ONDUVILLA® is to be fixed at each overlap and each corrugation with ONDUVILLA® Speedy Screws. Fix the tiles following the order described in the picture, between the 2 overlapping guides. Do not fix those corrugations that will be overlapped by the next tile or verge piece.



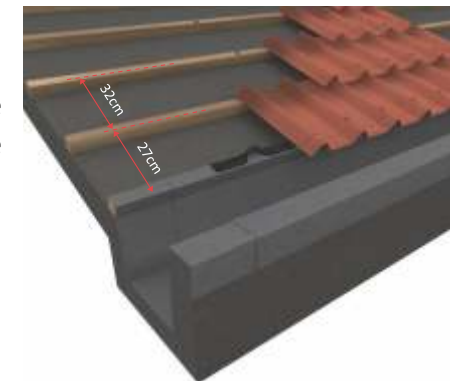
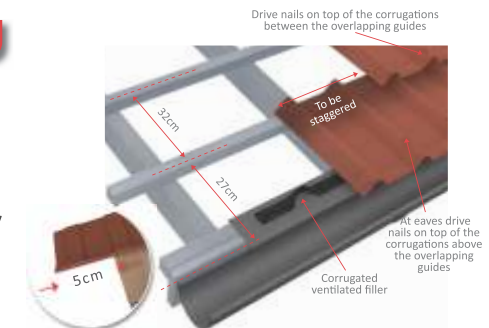
## INSTALLATION PRINCIPLES

Start installation at eave, in the opposite direction of the prevailing wind. In the case of tiles with a shadow line, position the dark strip on top. Stagger the rows, by starting the second row with a half tile. Horizontal overlaps are one corrugation. Ensure proper waterproofing by aligning the overlapping guides.



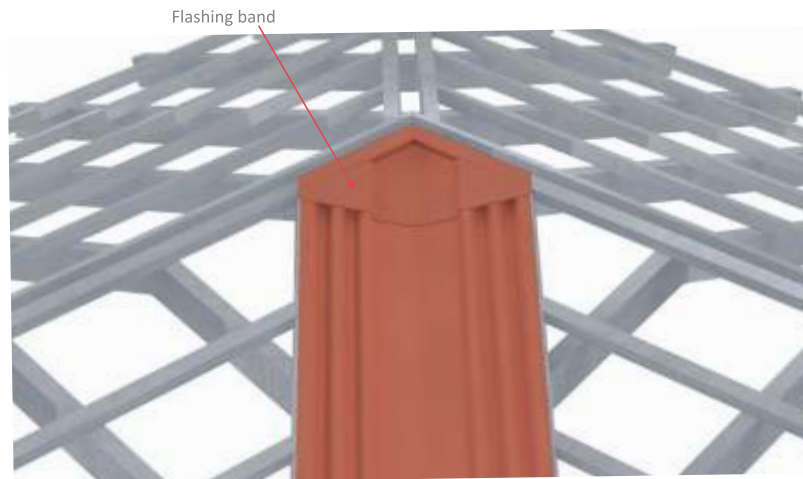
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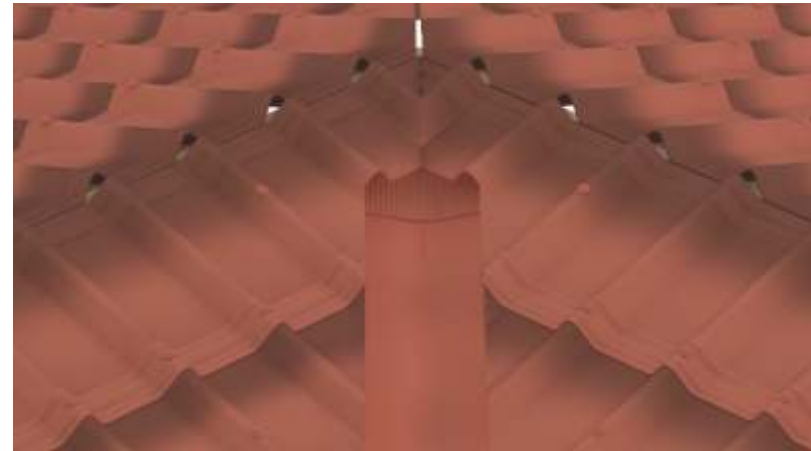




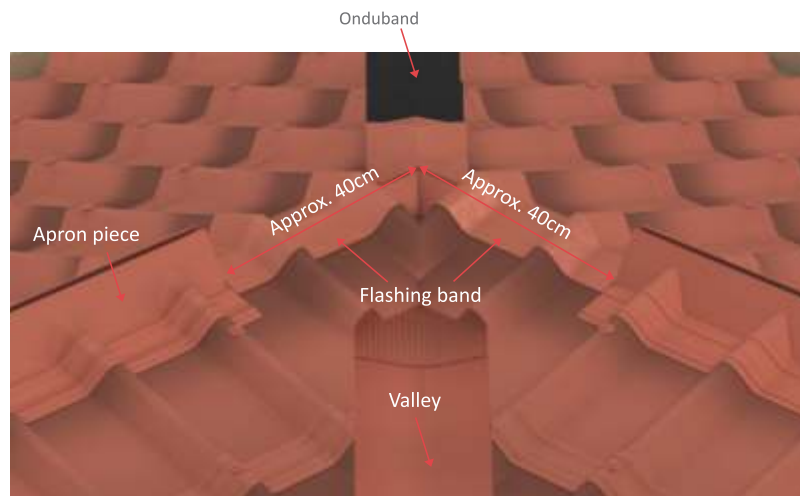
## HIP AND VALLEY TO RIDGE



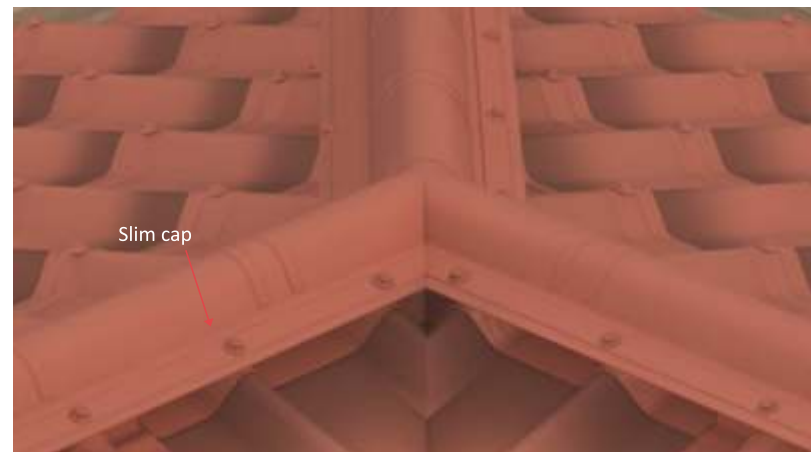
- 1 Cut and install the valley, and secure waterproofing with FLASHING BAND.



- 2 Install all ONDUVILLA® tiles.

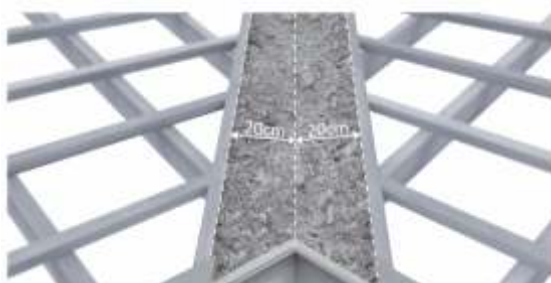


- 3 Install APRON PIECE at ridge, ONDUBAND at hip, and a strip of FLASHING BAND (width 15cm) at meeting point.

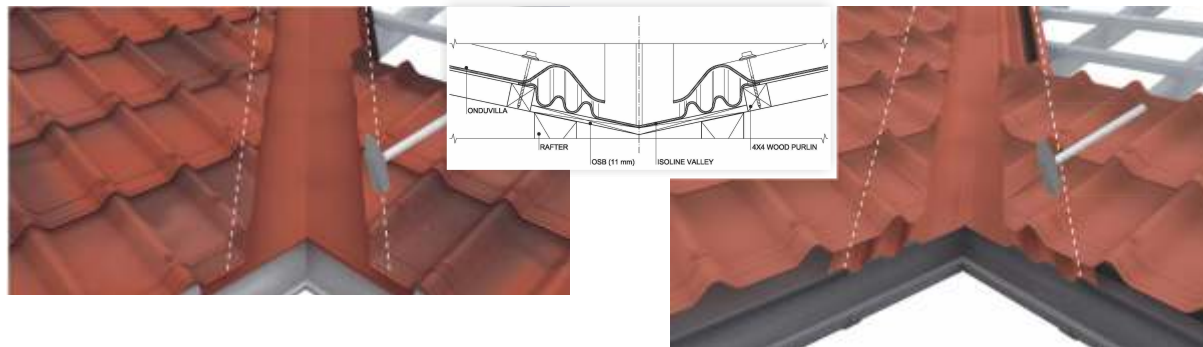


- 4 Cut the SLIM CAPS so that they touch each other on the same line (no overlapping).

## VALLEY



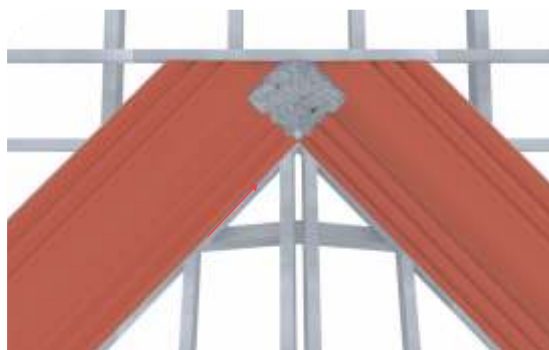
- 1 Prepare the support.



- 2 Position the valley, and fix it with standard nails (flat head). A universal ventilated filler can be added, to prevent birds or other animals to enter into the roof space.

- 3 Fix the nails on top of corrugations, into the supporting batten.

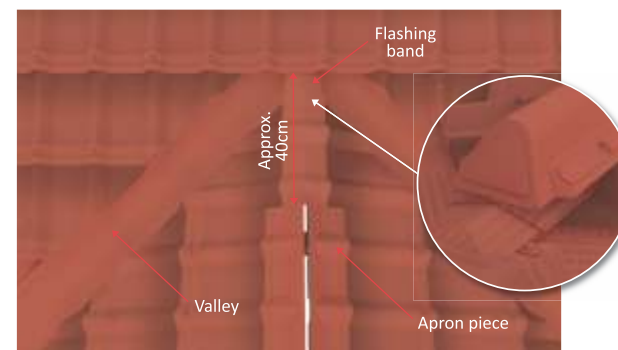
## VALLEYS TO RIDGE



- 1 Cut the valleys and fix them with standard nails. The empty surface will be used to glue the waterproofing solution.



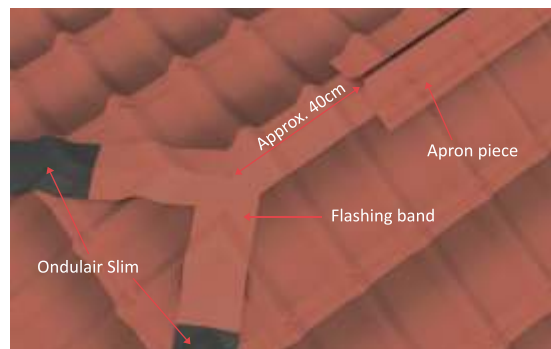
- 2 Prepare and cut the appropriate shape and surface of FLASHING BAND membrane, and apply it with care to ensure secured waterproofing.



- 3 At the ridge, before fixing the CLOSURE CAP, apply a strip of FLASHING BAND (width 15cm) for the first 40cm and use APRON PIECES for the rest of the ridge line.



## HIPS TO RIDGE



- 1 Secure the watertightness of the detail by applying FLASHING BAND.

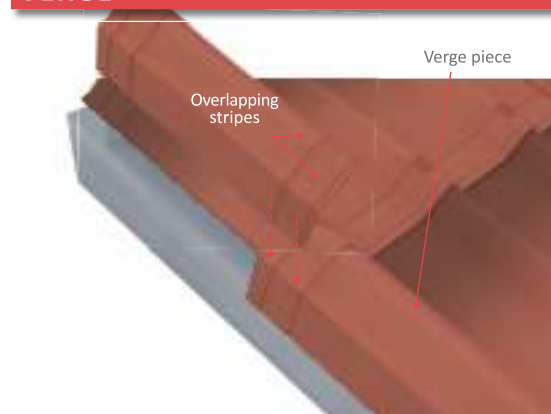


- 2 Apply a module consisting of 2 SLIM CAPS portions (to be fixed together using FLASHING BAND), cutting them at the right angle in accordance with the slope of the roof.

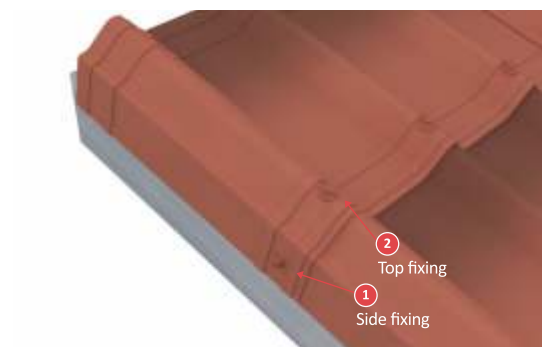


- 3 Cut the SLIM CAP with an angle of 45° and fix it. The ridge piece has to overlap the hips.

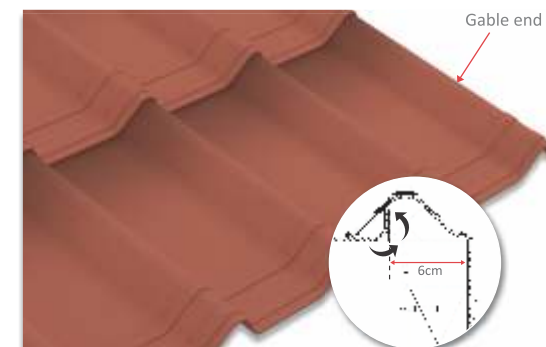
## VERGE



- 1 At the beginning of the roof, the VERGE PIECE simply overlaps the first corrugation of ONDUVILLA®.



- 2 Additional to the usual fixing on top of the corrugation, side fixing is also necessary against wind uplift. Side fixing comes first, then finalize with top fixing.

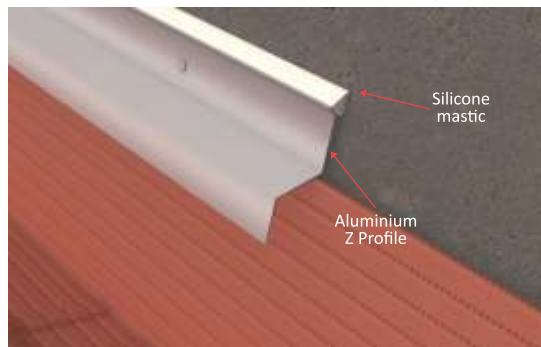


- 3 On the opposite side, the roof may not end with a corrugation. Cut the last tile at the edge and bend it onto a batten in order to ensure proper watertightness. Then overlap the batten with the VERGE PIECE.

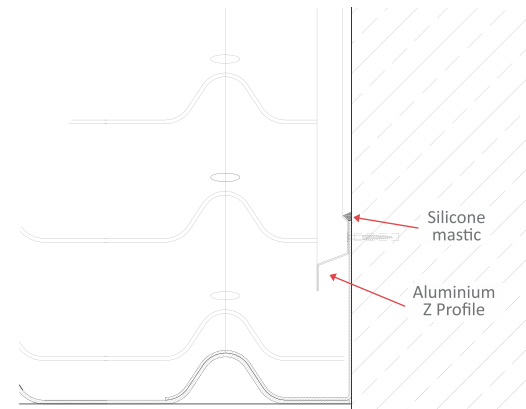
## SIDE WALL ABUTMENT



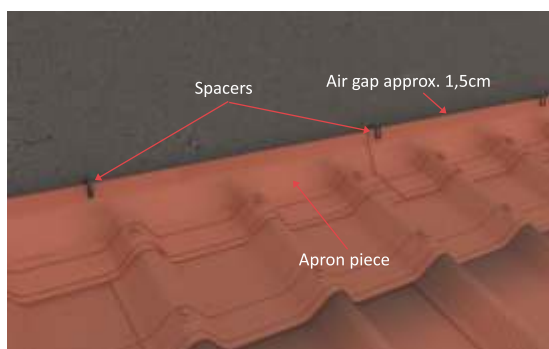
- 1 Position the FLASHING BAND membrane, overlapping one corrugation in order to ensure waterproofing.



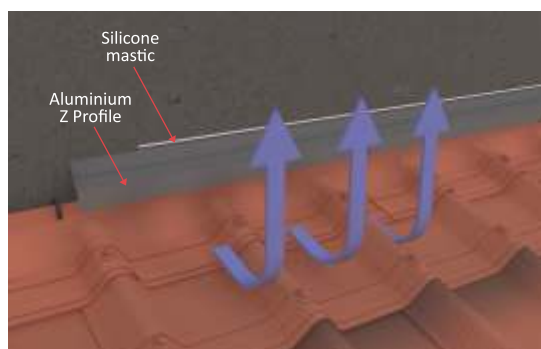
- 2 Secure the waterproofing along the wall by fixing an aluminium Z-profile and a strip of silicone mastic.



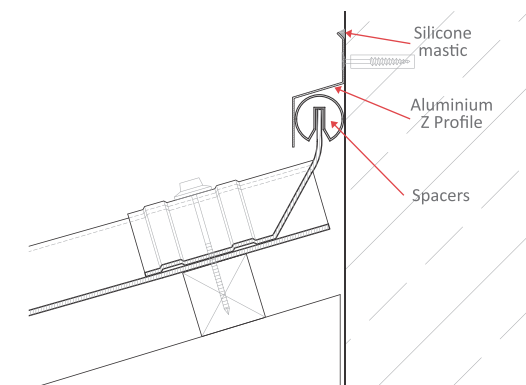
## WALL ABUTMENT



- 1 The ventilation gap between the wall and the apron piece should be secured with spacers that are applied at overlaps and in the middle of each apron piece.

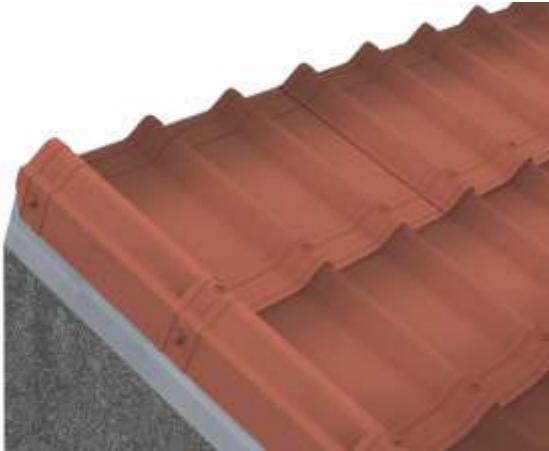


- 2 Aluminium Z profile is then fixed to the wall, and a line of silicon mastic is necessary for the watertightness.

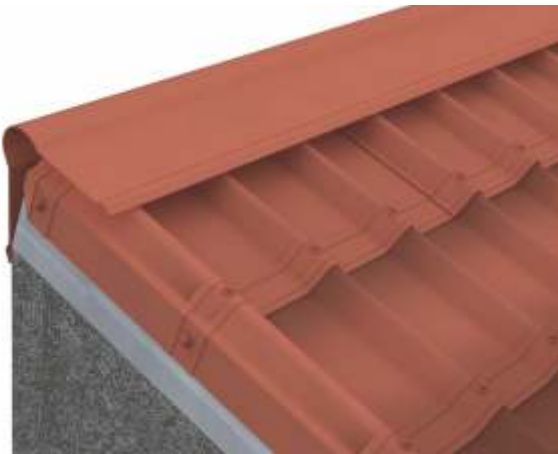




## MONO RIDGE TO WALL

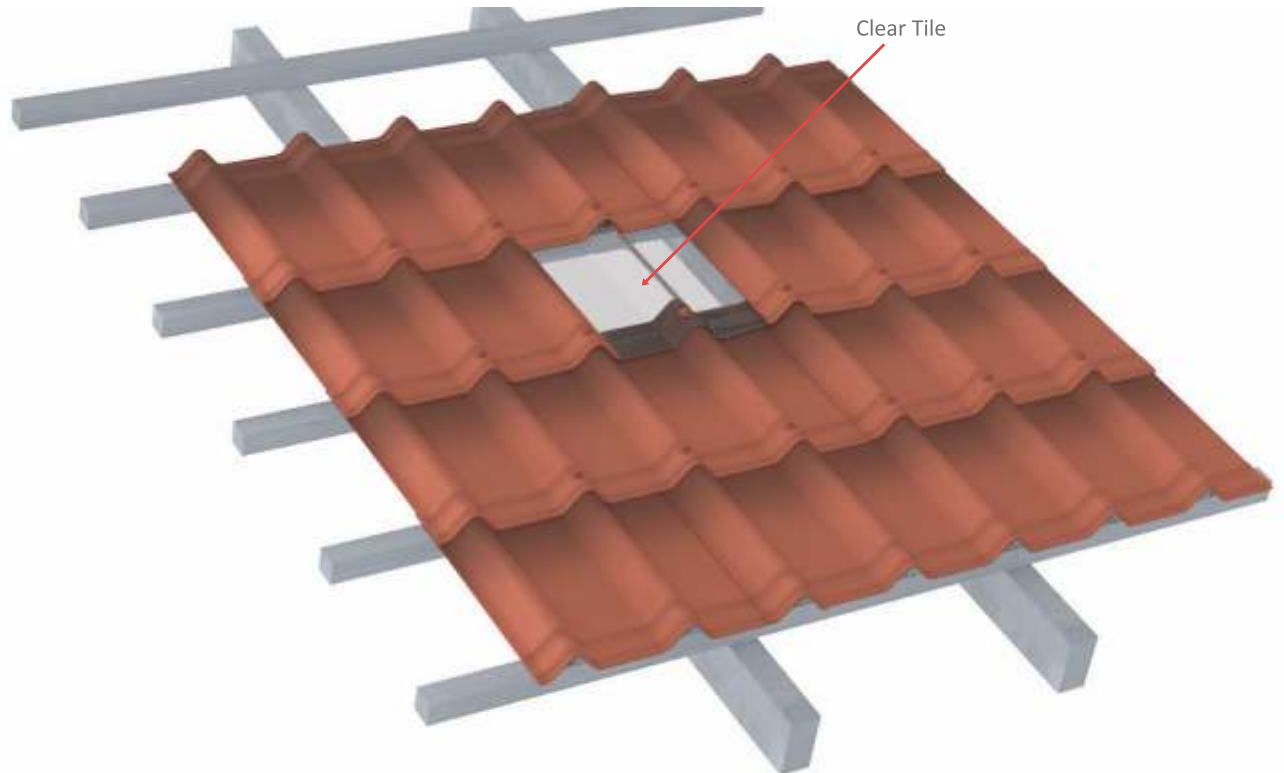


- 1 Install the VERGE PIECE.



- 2 Apply a STANDARD RIDGE PIECE and fix it on both sides.

## SKYLIGHT



- 1 Cover the outer corrugations of the ROOF VENT or CLEAR TILE on each side.

# Ride the wave of performance and reliability !

## Whatever your roofing needs, ONDUVILLA® offers the ultimate fit

A solution of the future, ONDUVILLA® gives you an ideal alternative to concrete and clay tiles, as well as metallic tiles and shingles. They're **watertight, reliable** and **eco-friendly**.

ONDUVILLA® is a unique and complete system that's well suited for renovations or new buildings, and it's perfect for **all standard roofing structures**, including wooden and metallic battens and wooden and concrete decks. With their light and flexible materials, the tiles **fit seamlessly with all types of diverse roof shapes and sizes**, including light and uneven roof structures.

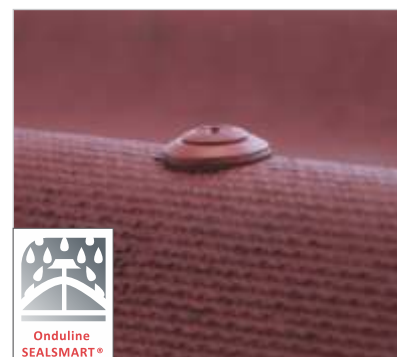
## The highest standards delivered

Developed by the **world leader** in composite roofing sheets, with a powerful global presence in more than 100 countries, ONDUVILLA® solutions are **ISO 9001-certified** and **comply with the strictest standards and regulations**.



## Water Proofing

Backed by exclusive SealSmart technology, the elasticity of ONDUVILLA®'s composite material allows it to shrink firmly around each nail, creating a permanently **leak-resistant barrier**. And the waterproofing is secured thanks to **double-embossment technology** at the overlaps.



## Eco Responsibility

Onduline® has achieved a **low carbon footprint** and recycles some 200,000 tons of material each year. Additionally, ONDUVILLA® materials are composed of **recycled fibers** and use **natural pigments** for coloration. Like all Onduline® products, ONDUVILLA® **contains no asbestos**. On top of this, because of ONDUVILLA® light weight, **transportation is optimized** and the structure needed is a lighter one. ONDUVILLA® contributes to meet the LEED requirements.





# SUSTAINABLE FROM A TO Z

At Onduline®, our ongoing mission is to take serious sustainable actions at every level of our business, from our products and processes to our people and our planet. We're constantly striving to fundamentally improve the way we operate, providing our customers with truly sustainable roofing solutions at a reasonable price, improving people's lives as well as the neighborhoods they live in. And we'll continue to make major strides in all of these areas...

## Our products



All of our products and materials are **lightweight**, which makes for simpler, more efficient transportation as well as less waste at construction sites.

They're also **asbestos-free**, composed of **recycled fibers** and use **natural pigments** for coloration.

## Our processes

We achieve a **very low carbon footprint** as well as low energy consumption in our manufacturing processes (4 kwh per m<sup>2</sup>). Our plants are equipped with **high-performance treatment** systems for gas effluents and emit no liquid waste in any form. Onduline has received a VAR Confirmation report (VAR 1016) by ICC-ES to precise the recycled content of its solutions.

Additionally, thanks to high-tech recycling processes, we've been able to achieve high content of post-consumer material (around 50%). We're currently **recycling some 200,000 tons of material** each year.





I am looking for  
real environmental  
options to protect  
MY FAMILY



### Our people

In addition to all the sustainable initiatives behind our products and processes, **Onduline® is quite simply a great company to work for** – one that values its workers.

We employ more than 1,600 people across the globe, representing dozens of nationalities, cultures and languages. Our people are young, dynamic and passionate about their experience.

They stay with us for seven years on average, well above the global median for private-sector workers.

### Our proof



Onduline®'s achievements are regularly **recognized by leading standards and organizations**. For instance, we've earned the prestigious **ISO 14021** and **VAR 1016** certifications for **high-impact recycling**, as well as **LEED Gold** for sustainable green building operations.

\* Job site LEED Gold CENTRO DE CULTURA MAX FEFFER Pardinho (Brazil)







# General Information

Onduvilla tiles are supplied in shrink wrapped packing of 15 tiles. Each pallet of Onduvilla consists of 900 tiles. It is not recommended to stack pallets. Tiles must be stored flat and covered at all times to protect against weather and dust. The tiles should always be lifted from the pallet and not dragged across. While using Onduvilla tiles in conditions of high internal humidity, it is important to use a vapour barrier and provide adequate ventilation on the roof.



## Maintenance

To ensure long life of Onduvilla tiles, we recommend the following maintenance procedures

- Do not allow leaf debris to build up on the surface of the corrugated roofing as leaf mould would soften the material and reduce the effective life of the product.
- Ensure that tree branches are not in direct contact with the roof as it can result in mechanical damage to the sheet surface.
- Clean all rainwater gutters regularly to ensure efficient water run-off from the roof.



## Health & Safety

Roofing is a specialized job and needs skilled and trained personnel. While on the roof, workmen should ensure that their legs are always placed on purlins to prevent damage to the tiles. During installation, workmen should walk/sit on the wooden planks to distribute their load. Safety devices are compulsory during any roofing work.



## Conditions of Sale

The manufacturer reserves the right to alter specifications and details at any time without notice. It is recommended to seek written advice from the company on the suitability or performance of goods for different applications.