

# Technical Data Sheet

**ONDUVILLA®**

Lightweight corrugated roofing tiles.

ONDUVILLA®



## Where to use and Properties

- Onduvilla tiles can be installed in all type of buildings and combines many different assets: aesthetical, technical and economical. 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. They are used for large range of applications: high end housing, condominiums, hotel residences, hotels, tourism complexes, institutions, etc.
- Onduvilla tiles are used for all type of buildings in more than 100 countries worldwide. Onduvilla is resistant, lightweight and aesthetical roofing tile.
- ONDUVILLA® tiles random shadow imitations give the distinctive, raised appearance of traditional Mediterranean roofs.
- Manufactured through an environment friendly technology, Onduvilla® roofing tile is a flexible and cost effective product that provides weather protection, sound and thermal insulation. It is completely waterproof, cannot rust. Backed by exclusive SealSmart technology, the waterproofing is secured thanks to double-embossment technology at the overlaps.
- Onduvilla® tiles contain no asbestos and therefore present no health risk either in installation or when the building is in use

## Product Definition

Complete system providing perfect solutions thanks to its large range of accessories and weighing only 4kg/m<sup>2</sup>, Onduvilla® tiles are really practical to install: only a hammer or electric screw driver is needed for securing the tiles and a band saw for cutting them down to size. Manufactured from recycled fibers, Onduvilla® tiles contain no asbestos and therefore present no health risk either in installation or when the building is in use.

## Technical Data

Length	107 cm - (L)
Width	40 cm - (W)
Thickness	3 mm - (t)
Height of corrugations	38 mm - (H)
Pitch of corrugation	97,3 mm - (P)
Net coverage	0,312 m <sup>2</sup>
Weight/ m <sup>2</sup>	±4 kg
Weight/sheet	±1,27 kg
Corrugations+flats	6 + 5
Bending under downword load	NPD
Impact strength	NPD
Tear resistance	>200 N
Water permeability	PASS
Water permeability artificial ageing behaviour	PASS
Tear resistance artificial ageing behaviour	>200 N
Coefficient of thermal expansion	<100.10-61 K
Reaction to fire EN 13501-1	E
Resistance to external fire	Froof

## Available colors:

ONDUVILLA® tiles are produced in red, brown, green, terracota, stone grey, slate grey, black and fiorentina colors.

## Tools:

Hammer or woodworking adze, power drill, hand saw or power saw, knife and gloves.

## Packaging:

Qty tiles/bundle	: 10
Weight/bundle	: 12,7 kg
Net coverage/bundle	: 3,12 m <sup>2</sup>
Qty bundle/pallet	: 105
Qty/pallet	: 327,60 m <sup>2</sup>
Weight/pallet	: ±1440 kg

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## General Applications Steps

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1. Start fixing tiles at the opposite end of the roof from prevailing winds.
2. The first row of tiles should extend over the bottom purlin and the eaves so that rainwater can drain into a gutter or beyond the wall.
3. Sheets overhang at the eaves should be max. 5 cm
4. At eaves drive nails on top of the corrugations above overlapping guides
5. At the second row cut a tile in half vertically to start alternate tile courses forming a broken bond sheet pattern. Ensure waterproofing aligning the SealSmart® overlapping guides.
6. Tiles should be overlapped by the next tile in the run by one corrugation ('side laps').
7. Minimum end overlap should be 8 cm
8. Nail tiles always through the top of every corrugations between the overlapping guides at the eaves and tile overlaps with genuine ONDULINE® fixing accessories.
9. Protect verges against wind.
10. Use a ridge plank to support the ridge.
11. The slim cap 106 ridge element should be fastened at each corrugation of the overlapped tile.
12. Lay ridge element with a minimum overlap of 8 cm. Fix closure cap 106 for best solution for your roof's decorative details.
13. The flat part of the tile provides a safe and level surface to walk on during roofing works.

## General Warnings

1. Min. pitches: 15% (9°)
2. ONDULINE® universal screws are designed to be used on wood but can be used also on light steel framing.
3. Use only genuine ONDULINE® fixings.
4. Use of 16 nails or screws per tile is necessary.
5. Think safety first. Wear PPE

## Storage

Protect material from heat and direct sunlight. Do not stack pallets.