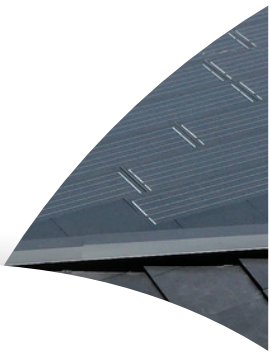
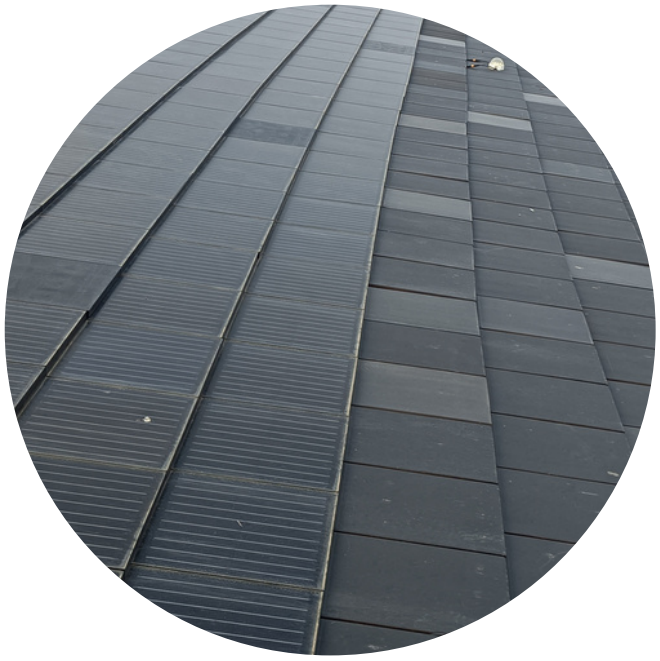
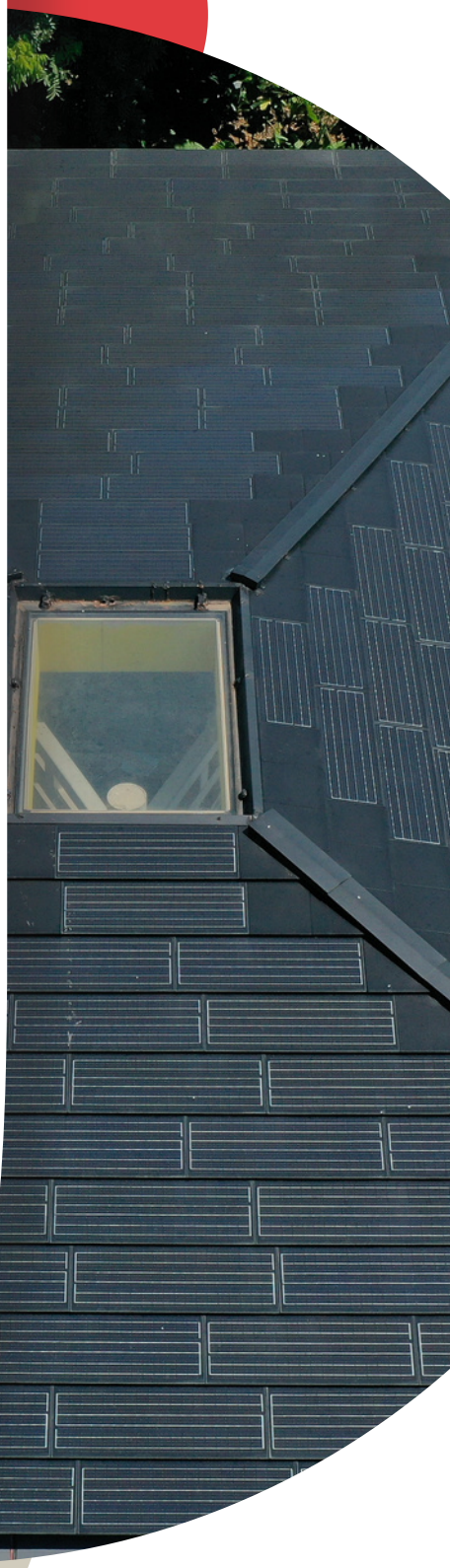
ONDUSOLAR®



PHOTOVOLTAIC
INTEGRATED
ROOFING SYSTEM

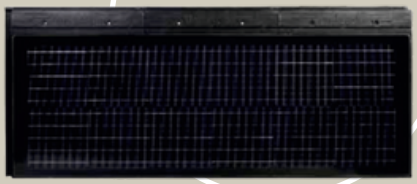




Onduline®
Lightweight roofing systems

ONDUSOLAR®

Integrated Photovoltaic Roofing Tiles



ONDUSOLAR® PHOTOVOLTAIC INTEGRATED ROOFING SYSTEM is designed by French patent. It features the aesthetic elements of flat ceramic tile and pushes into high-efficiency photovoltaic power generation module. It is equipped with special auxiliary tiles and accessories, for an elegant appearance. The tiles are lightweight, about 15kg per square meter, which is only half of the traditional cement tile and ceramic tile. It comes with strong durability and 25 year linear power output guaranteed cell.

Lightweight

Aesthetic

Easy to install

Professionnal Quality

Dimensions

LENGTH	1062 mm
WIDTH	440 mm
THICKNESS	22 mm
WEIGHT	5.5 kg
COVERAGE/ m²	2.7 pcs / m²
# TILES TO GENERATE 1 KW power	18 pcs
AREA TO GENERATE 1 KW power	75 sft

Mechanical Parameters

CELL	Right angle black monocrystalline silicon crystal
TEMPERED GLASS	3.2mm ultra white coated tempered glass
FRAME BASE	Weather resistant fiber reinforced composites
ALL BLACK BACKPLANE	Double sided fluorocarbon coating
CABLE CONNECTOR	MC4

Electrical Parameters

CELL TYPE	PERC Cell
CELL SIZE	158x158 mm
NUMBER OF CELLS	12 pcs Full Cell
MAXIMUM OUTPUT POWER	≥60W
OPEN CIRCUIT VOLTAGE	8.05V
MAXIMUM WORKING CURRENT	9.60A
MAXIMUM OPERATING VOLTAGE	6.59V
SHORT-CIRCUIT CURRENT	9.10A
MAXIMUM SYSTEM VOLTAGE	DC1000V（IEC）
EFFICIENCY	21%
WORKING TEMPERATURE	-40~85℃
NOMINAL OPERATING TEMPERATURE	45℃
COMPONENT APPLICATION LEVEL	Class A

Ondusolar System

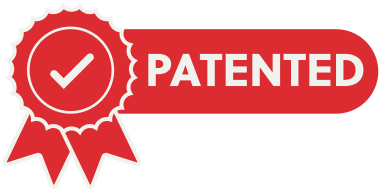
ONDUSOLAR® photovoltaic power generation tile		Power generating tile
ONDUSOLAR® cutting edge tile		Accessory tile made of weather resistant fiber reinforced material.
Ceramic Flat Tile		Tile to cover the remaining roof
Ridge		Made of same material as ceramic tile

Why Choose ONDUSOLAR®

With modern narrow edge technology, ONDUSOLAR® is not only more beautiful and innovative but also, greatly improves the area ratio of cell , the ratio of power generation per unit of roofing making it very efficient . The "ONDUSOLAR® photovoltaic power generation tile can efficiently absorb solar energy in the daytime and convert it into electric energy, which can effectively reduce the radiant heat of the roof, thus improving the indoor environment and reducing the building energy consumption.

Patents:

- **3 patents has been authorized.**
- **1 utility model patent which suitable for Indian market.**
- **2 appearance patents;**
- **In addition, one utility model patent application is pending.**

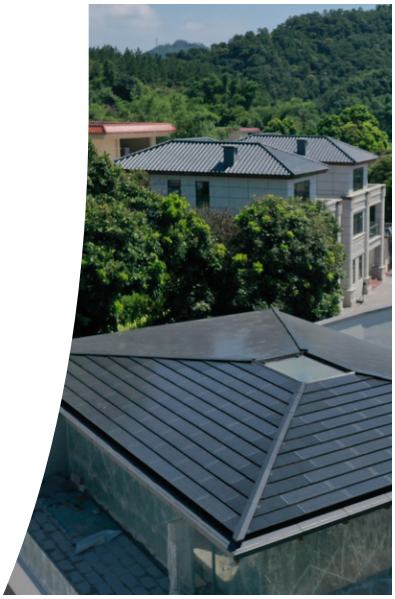


ABOUT ONDULINE®

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.**



2024/03 Informative material. All products specifications are subject to modification without prior notice.

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Onduline®
Lightweight roofing systems