

THE WORLDS FINEST ENERGY PRODUCING ROOF TILE



The integration of humble concrete roof tiles with high efficiency monocrystalline photovoltaic cells ensures the combination of aesthetic beauty & functional power.

Installed around the globe, this innovative solar tile paves the way in residential building integrated Photovoltaics (BIPV).

No Longer do architects need to choose between aesthetics and efficiency.

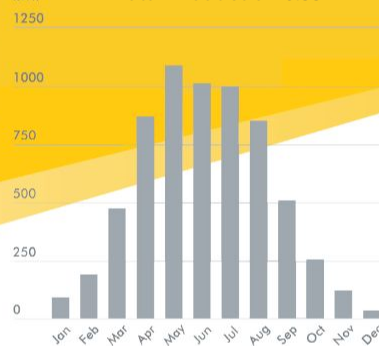
WHAT IS THE ERGOSUN TILE?

ergosun Integrated Solar Roof Tiles are a breathtaking solarized roof tile, designed to integrate with traditional cement or clay roofing tiles and be installed in residential applications. They maintain the aesthetic look and elegance of the home while providing clean, green energy.

SIMPLE INSTALLATION

ergosun modules use a specialized adhesive to bond to the face of traditional roof tiles for the life of the product. These completed modules can then be installed with standard roofing methods, meaning no special contractors are required. The tiles are simply plugged in to the next across the face of the roof with the wires protected between the roof deck and roof tiles.

kWh **Total Production 6.55 MWh**



KEY BENEFITS

INVISIBLE FINISH

Available in canyon black or sedona terra cotta colors to match the finish of the rest of the roof, ergosun Integrated Roof Tiles offer maximum aesthetic appeal.

UTILIZE UP TO 98% OF THE ROOF

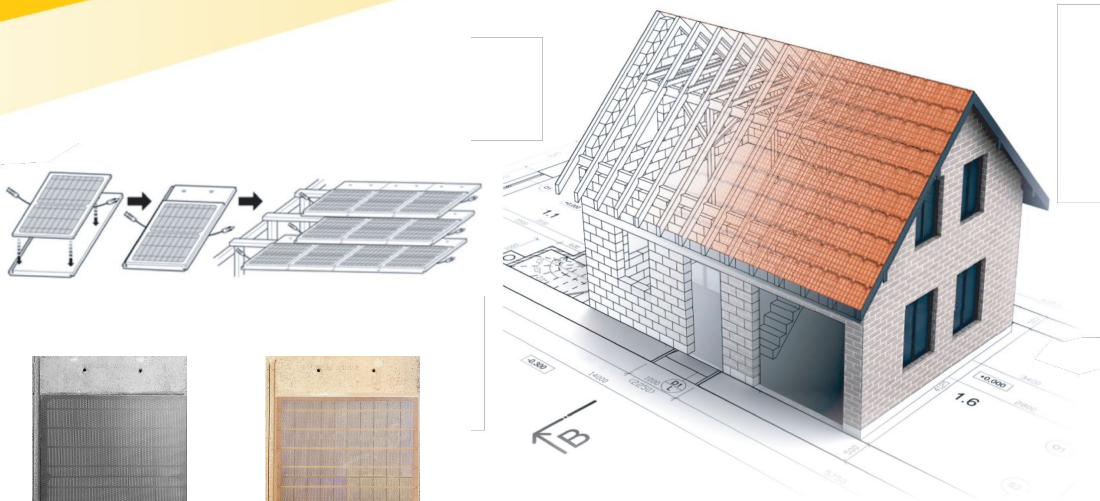
ergosun is a perfect solution for complicated roof lines, able to install around skylights, dormers, and other roof aspects that large panels cannot avoid.

TRUE BUILDING INTEGRATION

As an integrated part of the roof, this tile does not require any framing, brackets, or clamps to fix your system to your home. This reduces labor time for installing and minimizes the chance for water ingress.

TRUE BUILDING INTEGRATION

Designed to generate voltage even during low light conditions, ergosun tiles maximize the generation potential of your roof.



CANYON
BLACK

SEDONA
TERRA COTTA

SPECIFICATION

SUBSTRATE	CONCRETE OR CLAY
MODULE SIZE	11.81" x 13.46" 300mm x 342mm (adjustable)
NUMBER OF CELLS / MODULE	20
NUMBER OF TILES/SQ. METER	10
MODULE THICKNESS	3.6mm
MAX POWER DETERMINATION	
PER SOLAR TILE	10V @ 1.85 amps
TEMP	25°C 77°F
VOC (V)	12
VMP (V)	10
ISC (A)	1.85
IMP (A)	1.45
PMP (W)	17.5
CURRENT TEMP. COEFFICIENT % DEG. C	0.05%
OPEN CIRCUIT VOLT. TEMP. COEFFICIENT % DEG.C	0.35%
OUTPUT TEMP. COEFFICIENT % DEG. C	0.35%
ROOFING	
BATTEN SPACING	13.58" 345mm
PROTECTION	
BYPASS DIODE / TILE	FUSED STRING
CONNECTIONS	
TILES IN SERIES	2 x MC4 CONNECTORS (MALE & FEMALE)
SYSTEM DESIGN VOLTAGE	600 VDC MAX

OTHER BENEFITS

True Integration:

No framing or mounting are required.

Lightweight:

Less than 3kg per M2 so No need for extra structural calculations.

Seamless design:

No special roof tiles. Our solar cells are bonded bespoke to most flat concrete roof tiles, no need to choose from a limited range.

Certifications: IEC 61215 / IEC 61730-1 & 2 / MCS005 & MCS012
UL/CSA/BS CE UKCA

Warranty: 10 year product warranty / 25 year 80% power output performance guarantee

External Fire rating: Exposure test to BS476-3:2007, AB Rating
UL TYPE 34 RATING IEC FIRE CLASS RATING A

