



TEJAS BORJA

Since 1899

INNOVATION CATALOG

SOLUTIONS FOR EFFICIENT ROOFS



ENTREPINS TB-10 TECH ROOF TILE

Solutions for efficient roofs

Tejas Borja is a leading Spanish company in the manufacture of ceramic roof tiles and innovative roofing solutions. It has a long history of incorporating the latest technology in the roof tile manufacturing process.

At Tejas Borja, we are dedicated to manufacturing high-quality products that not only meet but exceed the most demanding market expectations.

We are constantly innovating in the design and produce of our products, focusing on energy efficiency and sustainability.

We aim to offer aesthetically appealing and functional solutions that add value to every project, enhancing comfort and durability.

Integrated photovoltaic solutions

- Solar Flat-5XL roof tile
- Solar Flat-10 roof tile
- Easy Roof Integration

Advanced Roofing Systems

- BorjaTHERM
- BorjaSAT

Digital printing Inkjet

- BorjaJET

SOLAR FLAT-5XL roof tile

SOLAR FLAT-5XL ceramic roof tiles are the only large ceramic tiles with an integrated solar energy system. They are ideal for providing a reliable supply of solar energy.

Thanks to the integration of the solar panel into the tile, the tiles provide all the benefits of a roof made from ceramic tiles in terms of watertightness, without any risk of deterioration or oxidation. The perfect integration is completed with the installation of the roof or facade using FLAT-5XL tiles and other ceramic accessories.



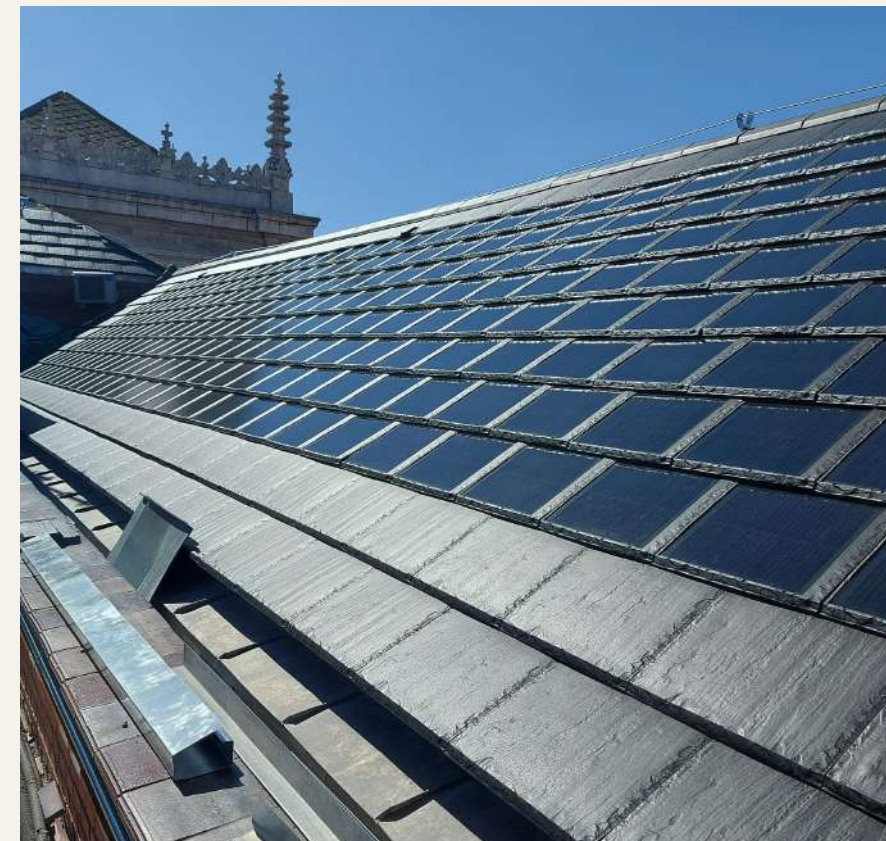
143,26 W/m²
23 W of power
41,32 units/kW



+ INFORMATION

The SOLAR roof tiles must be installed always on ventilated roofs, being able to use double batten system or equivalent system.

SOLAR FLAT-5XL + LEON MATTE FLAT-5XL ROOF TILE



1,260 SOLAR FLAT-5XL ROOF TILES 29 KW

📍 SPAIN

Patrimony and technology under one roof.

The rehabilitation of Valladolid town hall incorporates **FLAT-5XL Leon Matte** roof tiles alongside 1,260 **SOLAR FLAT-5XL** ceramic tiles, which generate clean energy while maintaining the original architectural aesthetic. Underneath the tiles, the **BorjaSAT** system (140 mm) ensures a ventilated, efficient and perfectly insulated roof, optimising the thermal and energy performance of the historic building.



108 SOLAR FLAT-5XL ROOF TILES 2.5 KW

📍 SPAIN

Solar innovation with contemporary aesthetics.

The roof integrates **SOLAR FLAT-5XL** ceramic tiles together with **FLAT-5XL** roof tiles with **BorjaJET** digital printing in a **Denver Iris** finish, creating a continuous, uniform surface that combines aesthetics and functionality.

The system guarantees energy efficiency, watertightness and durability, providing a contemporary finish.

SOLAR FLAT-10 roof tile

The **SOLAR FLAT-10** roof tile is designed to blend seamlessly into your roof. Thanks to its integration, it confers all the benefits of capturing renewable photovoltaic solar energy as well as presenting excellent reliability in terms of watertightness throughout the roof.

The SOLAR FLAT-10 tile integrates perfectly into the roof, maintaining the same aesthetic appearance as a ceramic tile, preserving the line and usual thickness of the covering layer as thin as the tile itself.



178,40 W/m²
80 W of power
12,5 units/kW



The SOLAR roof tiles must be installed always on ventilated roofs, being able to use double batten system or equivalent system.

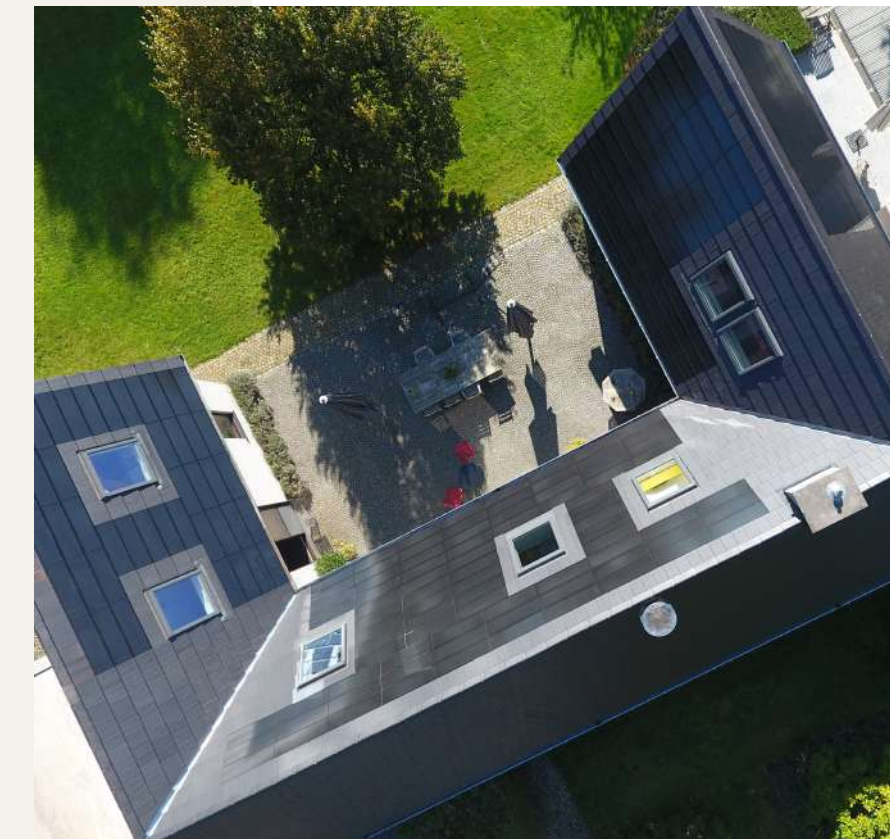
SOLAR FLAT-10 + NATURAL BLACK FLAT-10 ROOF TILE



68 SOLAR FLAT-10 ROOF TILES 5.5 KW

📍 LITHUANIA

A solution that combines efficiency and design in perfect harmony. This spectacular resort combines nature and architecture with a ventilated roof that not only adds character and functionality, but also generates its own energy. The ceramic tile chosen with a **BorjaJET Orange Nepal** finish, both on the roof and on the façade, provides a warm, handcrafted aesthetic thanks to digital printing technology.



209 SOLAR FLAT-10 ROOF TILES 16.7 KW

📍 BELGIUM

Self-sufficient architecture with integrated solar energy. This modern and minimalist home incorporates 209 **SOLAR FLAT-10** tiles, distributed across four of the roof slopes to achieve total energy self-sufficiency. The solar system is fully integrated into the ceramic surface, maintaining a uniform, contemporary aesthetic without any added elements.

Easy Roof Integration

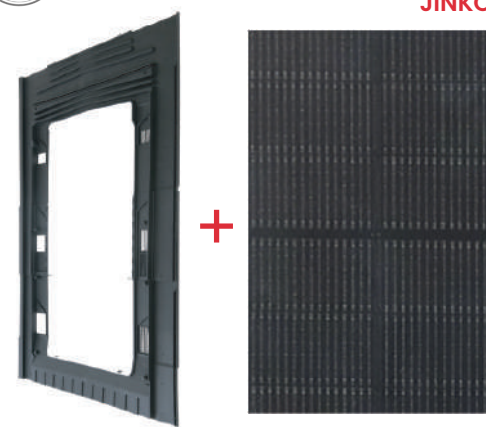
EASY ROOF INTEGRATION (ERI) it's an installation system designed for the integration of photovoltaic panels on sloping roofs with any type of ceramic tile.

	BLACK SOLAR PANEL	RED SOLAR PANEL
Max power/m ²	227.5 W/M ²	200 W/M ²
Maxium power	455 W	400 W
Maxium efficiency	22.8%	20%

Pre-frame for watertightness and fixings

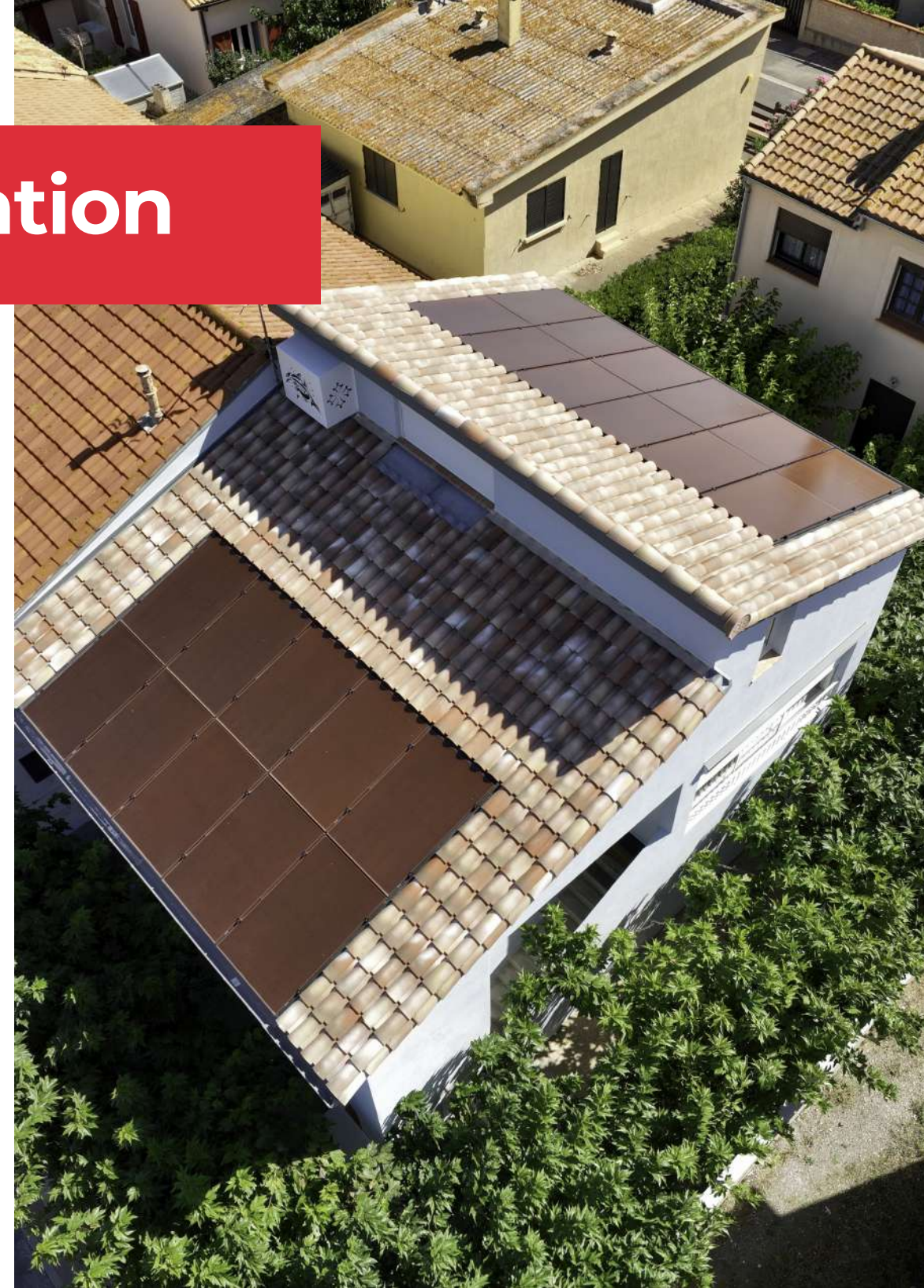


Photovoltaic panel
JINKO Full black



+ INFORMATION

The ERI system must be installed always on ventilated roofs, being able to use double batten system or equivalent system.



ERI KIT 8 UNITS 3.6 KWP

📍 SPAIN

The renovation focuses on efficiency from the roof down. During the renovation of this house, **8 ERI kits** were installed, combined with **TB-10 Tech Entrepins** ceramic tiles (finished with **BorjaJET** technology), to achieve a perfect balance between technology and aesthetics. The ERI system, together with **BorjaSAT** insulation (140 mm), optimises thermal transmittance, protects watertightness and improves interior comfort.



ERI KIT 12 UNITS 5.5 KWP

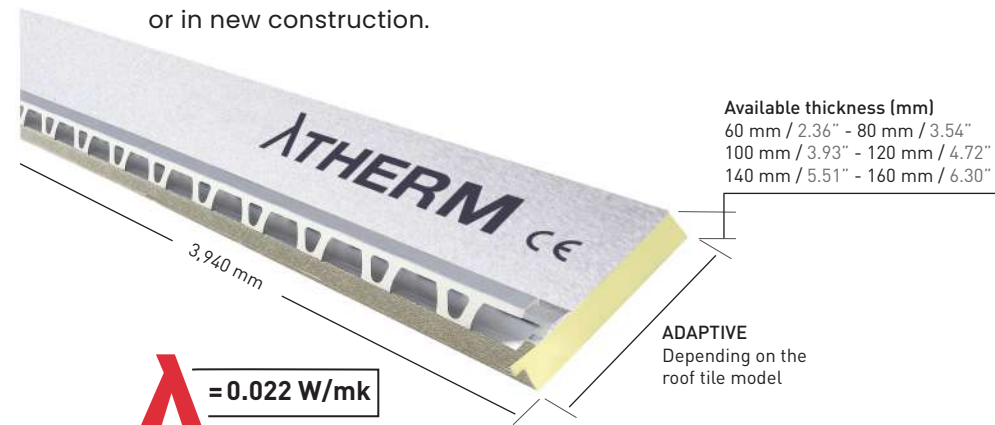
📍 SPAIN

Solar integration without compromising ceramic design. Ventilated roof equipped with **12 ERI kits** fully integrated into the roof surface. The roof is completed with **TB-10 Tech Fosca** roof tiles, which offer high resistance, low absorption and a contemporary aesthetic. The combination provides an efficient, safe and sustainable solution that improves interior comfort and reduces the energy demand of the home.

BorjaTHERM

Technical solution of prefabricated panels for a complete installation of a ventilated roof in a simple way and minimising on-site execution times.

The **BorjaTHERM** panels are resistant and very light, so that they do not overload the roof structure, making it possible to save on materials and weight after installation, whether in rehabilitation or in new construction.



$\lambda = 0.022 \text{ W/mk}$



Panel thickness	Heat Transfer U	Heat Resistance R
60 mm	0.37 W/m ² k	2.72 m ² k/W
80 mm	0.27 W/m ² k	3.63 m ² k/W
100 mm	0.22 W/m ² k	4.54 m ² k/W
120 mm	0.18 W/m ² k	5.45 m ² k/W
140 mm	0.16 W/m ² k	6.30 m ² k/W
160 mm	0.14 W/m ² k	7.20 m ² k/W



ENTREPINS TB-10 TECH ROOF TILE



PANEL THICKNESS 160 MM

PANEL PITCH 395 MM

📍 SPAIN

Energy and comfort under a Passivhaus roof.

The roof incorporates the **BorjaTHERM** system as continuous insulation, together with **FLAT-10** ceramic tiles and **SOLAR FLAT-10** tiles, which provide uniform aesthetics and clean energy generation.

A roof designed to maximise energy savings and meet the most demanding sustainability standards.



PANEL THICKNESS 120 MM

PANEL PITCH 370 MM

📍 SPAIN

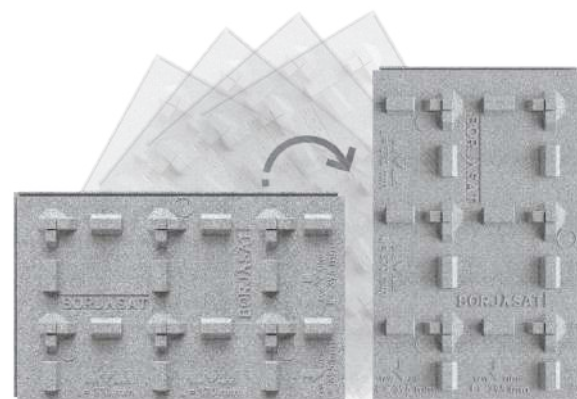
Sustainable roofing integrated into the landscape.

The colour of the **FLAT-10** tile is a custom-developed colour, designed to blend naturally into the environment, in harmony with the earthy tones of the landscape. And the **BorjaTHERM** system guarantees a lightweight, ventilated roof with high thermal performance. A solution that combines energy efficiency, comfort and respect for the environment, demonstrating how innovation can also be discreet and harmonious.

BorjaSAT

Advanced systems to meet ventilation, thermal insulation, watertightness and durability requirements for tiled roofs.

BorjaSAT panels are made entirely from Neopor® Expanded Polystyrene (EPS), regarded as one of the best insulation materials which has numerous applications in construction.

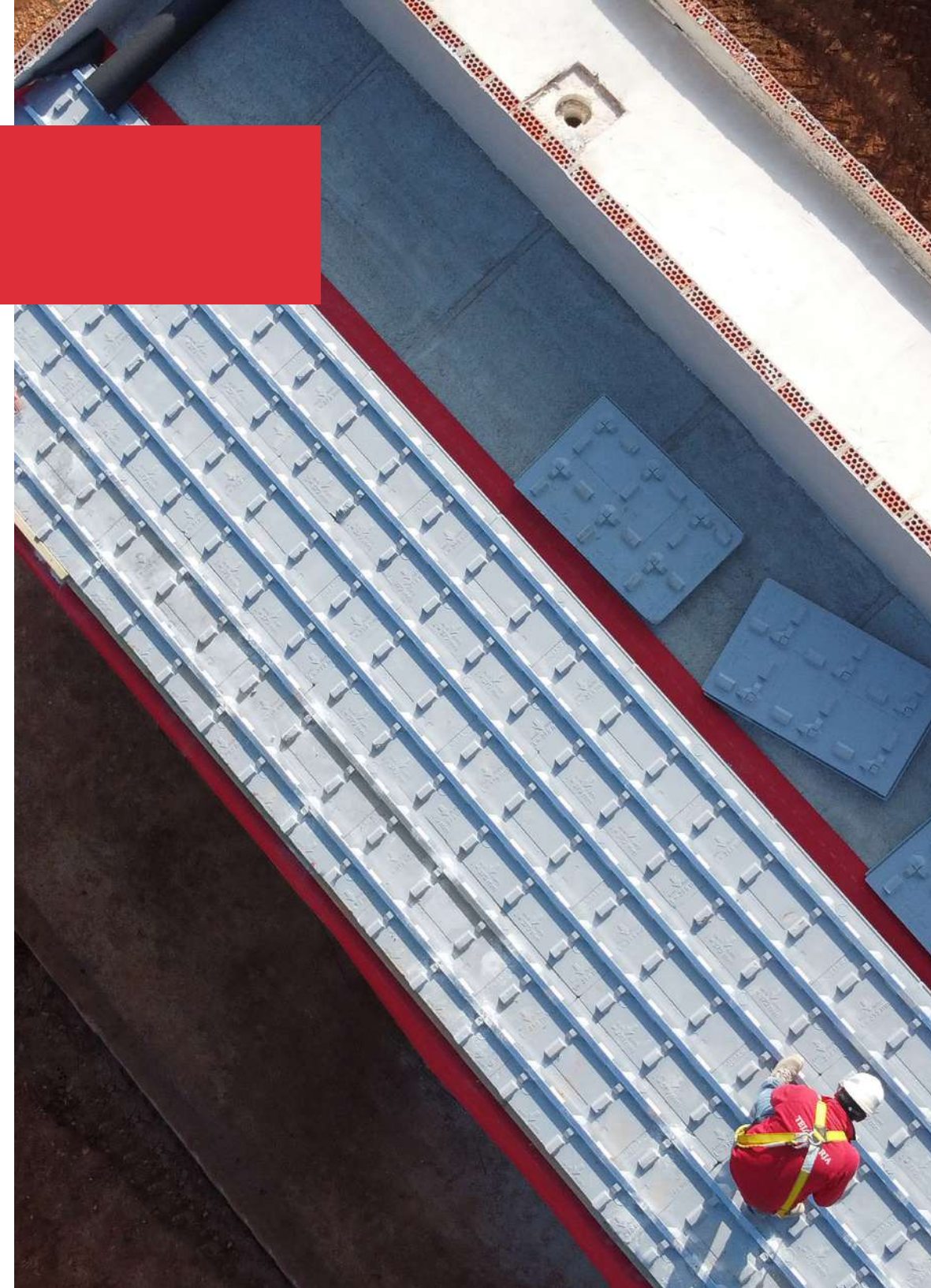


$\lambda = 0.031 \text{ W/mk}$
100% Neopor®





Panel thickness	Heat Transfer U	Heat Resistance R
60 mm	0.51 W/m²k	1.94 m²k/W
100 mm	0.31 W/m²k	3.23 m²k/W
140 mm	0.22 W/m²k	4.52 m²k/W



PANEL THICKNESS 140 MM PANEL PITCH 370 MM

📍 SPAIN

Design and efficiency under a ventilated roof. This home guarantees a ventilated and perfectly insulated roof thanks to the **BorjaSAT** system. On top of it, the **FLAT-5XL** tile with a **BorjaJET Orange Nepal** finish provides a warm and contemporary aesthetic, inspired by the natural tones of handmade clay. A roof that combines construction technology and cutting-edge ceramic design.



PANEL THICKNESS 100 MM PANEL PITCH 370 MM

📍 SPAIN

Efficiency in historic roofs. The **BorjaSAT** system has been incorporated into this renovation, providing insulation, ventilation and waterproofing to the roof, improving its thermal and structural performance. On top of this, recovered curved tiles have been combined with new **Step 50** tiles, preserving the traditional aesthetic and respecting the architectural identity of the urban environment.

BorjaJET

BorjaJET allows for excellent definition in the reproduction of all kinds of effects never before achieved, combining the richness of natural materials with the technical properties of ceramic tiles.

With this technological revolution in digital inkjet printing, we are able to manufacture tiles with finishes as varied as slate, stone, cement, oxid, cotto, wood and marble.



We unite the charm of the traditional with the benefits of Inkjet technology.



+ INFORMATION



TOKYO COOPER FLAT-10 ROOF TILE



IRISH GREEN FLAT-5XL ROOF TILE CERAMIC SLATE

📍 URUGUAY

Natural aesthetics created with digital technology. This residential property stands out for its ceramic cladding in **BorjaJET** finish. The project is designed to blend harmoniously with the landscape, using noble materials such as wood and opting for **FLAT-5XL Irish Green** ceramic tiles in an elegant aquamarine green tone.



WEATHERED CEDAR FLAT-10 ROOF TILE CERAMIC WOOD

📍 GUATEMALA

The warmth of wood, the durability of ceramic. This exclusive beachfront hotel complex combines contemporary architecture and natural materials to blend into the tropical environment. The roof, made with **FLAT-10 Weathered Cedar** tiles, faithfully reproduces the texture and nuances of aged wood, offering a warm, organic aesthetic with all the durability and resistance of ceramic.



TEJAS BORJA

Since 1899

**DO YOU HAVE A PROJECT?
WE HAVE THE SOLUTION.**

At every stage, we accompany you with the experience and commitment that characterises us. We ensure that your choice is the most suitable for your project, taking care of every detail so that the final result exceeds your expectations.

Tejas Borja provides a free integral service of the necessary calculations for your project. Contact us and we will manage the full budget for your roof.



+ INFORMATION

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