# La Escandella

**CONSTRUCTION SYSTEM** 

# Solutions for ventilated roofs





Advanced systems to meet the ventilation, thermal insulation, watertightness and durability requirements of tile roofs.

ESCANDELL\SAT panels are made entirely of Neopor® Expanded Polystyrene (EPS), considered one of the best insulating materials in construction and used in many building applications. Neopor® expanded polystyrene has high thermal insulation because it contains tiny particles of graphite that absorb or reflect infrared radiation, making it 20% more insulating than other EPS products.





High insulation, without thermal bridges and with lower

Ventilated roof, preventing damp and improving heat insulation.

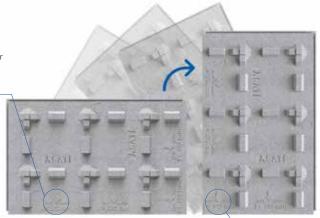


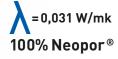
Lightweight and easy to install. No need for prior staking out.

Lateral and longitudinal fittings for **maximum** watertightness.

Multi-purpose panel. Suitable for installing any tile with a 37 or 39.5 cm batten pitch.













Installation in vertical position for 395 mm batten spacing

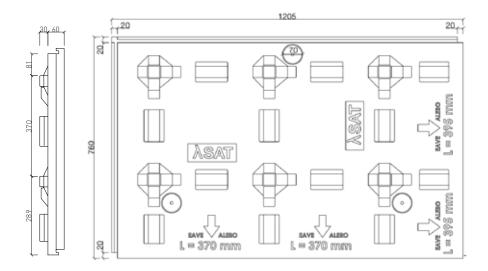
#### SYSTEM FEATURES

The ESCANDELL \( \lambda \) SAT insulating panel is manufactured in three thicknesses: 60, 100 and 140 mm and has a thermal conductivity coeficient of  $\lambda = 0.031 \text{ W/m-K}$  to meet the thermal insulation requirements of each project. When placed on the outside of the roof structure, they form a continuous layer of insulation without thermal bridges.

ESCANDELL SAT THICKNESS	Thermal transmittance U	Thermal resistance R	Minimum square metres (m2)
60mm	0,51 W/m <sup>2</sup> k	1,94 W/m²k	11,44
100mm	0,31 W/m²k	3,23 W/m²k	7,92
140mm	0,22 W/m <sup>2</sup> k	4,52 W/m²k	6,16



The panels must always be installed on a continuous support and waterproof sheet, to ensure that the roof is completely watertight in the event of condensation or accidental breakage of parts.

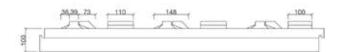


### **ESCANDELL**\SAT

thickness 60 mm

#### **ESCANDELL**\(\lambda\)SAT espesor 100 mm



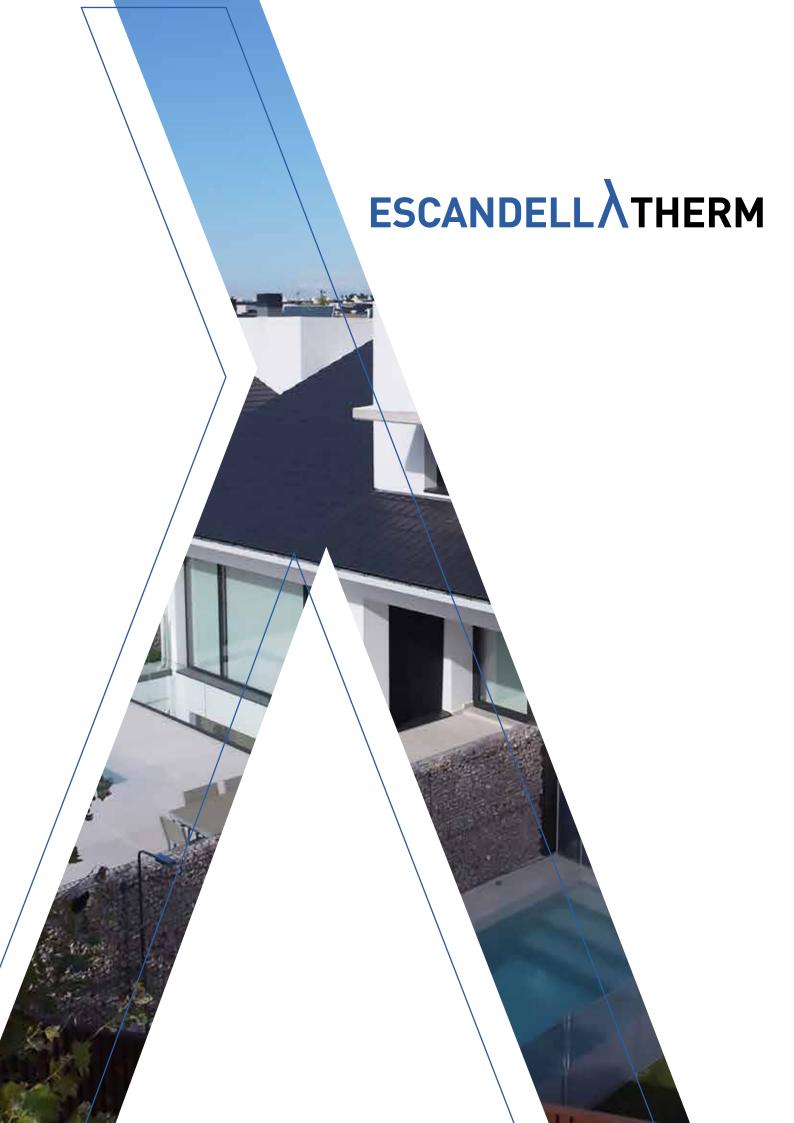


#### ESCANDELL SAT

thickness 140 mm









#### **TECHNIQUE FEATURES**

The ESCANDELL\(\lambda\) THERM insulating panel complies with UNE-EN 13165:2015 - Thermal insulation products for building applications. Products manufactured from rigid polyurethane foam (PU).



ESCANDELL $\lambda$ THERM has a thermal conductivity coeficient  $\lambda$  = 0.022 W/m-K, the lowest compared to other insulating materials for roofs.

This translates into lower thicknesses to achieve the levels of thermal insulation required in each case, since the lower the coeficient  $\lambda$ , the greater the insulation.

ESCANDELLA THERM panel thickness	Thermal transmission U
60 mm / 2.36 "	0,37 w/M <sup>2</sup> k
80 mm / 3.14 "	0,27 w/M <sup>2</sup> k
100 mm / 3.93 "	0,22 w/M <sup>2</sup> k
120 mm / 4.72 "	$0,18 \text{ w/M}^2\text{k}$
1400 mm / 55.11 "	0,16 w/M <sup>2</sup> k
160 mm / 6.29 "	0,14w/M <sup>2</sup> k

The **ESCANDELL**\(\)THERM system adapts perfectly to both renovations and new construction. The prefabricated panels that make it up are ready to be installed on site, thus facilitating the installation of the roof.

- External embossed aluminium coating that wraps around the insulation on all 4 sides, acting as a protection and sealing barrier.
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## WE DESIGN OUR SYSTEMS

# Thinking about the ease of energy installation of the cover



AITANA MIXED TILE WITH ESCANDELLA SAT



The use of high performance insulation systems is a direct and immediate way to achieve significant savings in energy consumption when renovating or building new buildings.

Lower energy consumption translates into **lower CO2 emissions**, responsible for global warming, which contributes positively to the environment. Houses are responsible for a large part of the

The roof is the most energy-efficient and therefore special care must be taken in its design to reduce energy losses as much as possible. Of the energy losses in the dwelling, approximately 30% corresponds to the roof.





