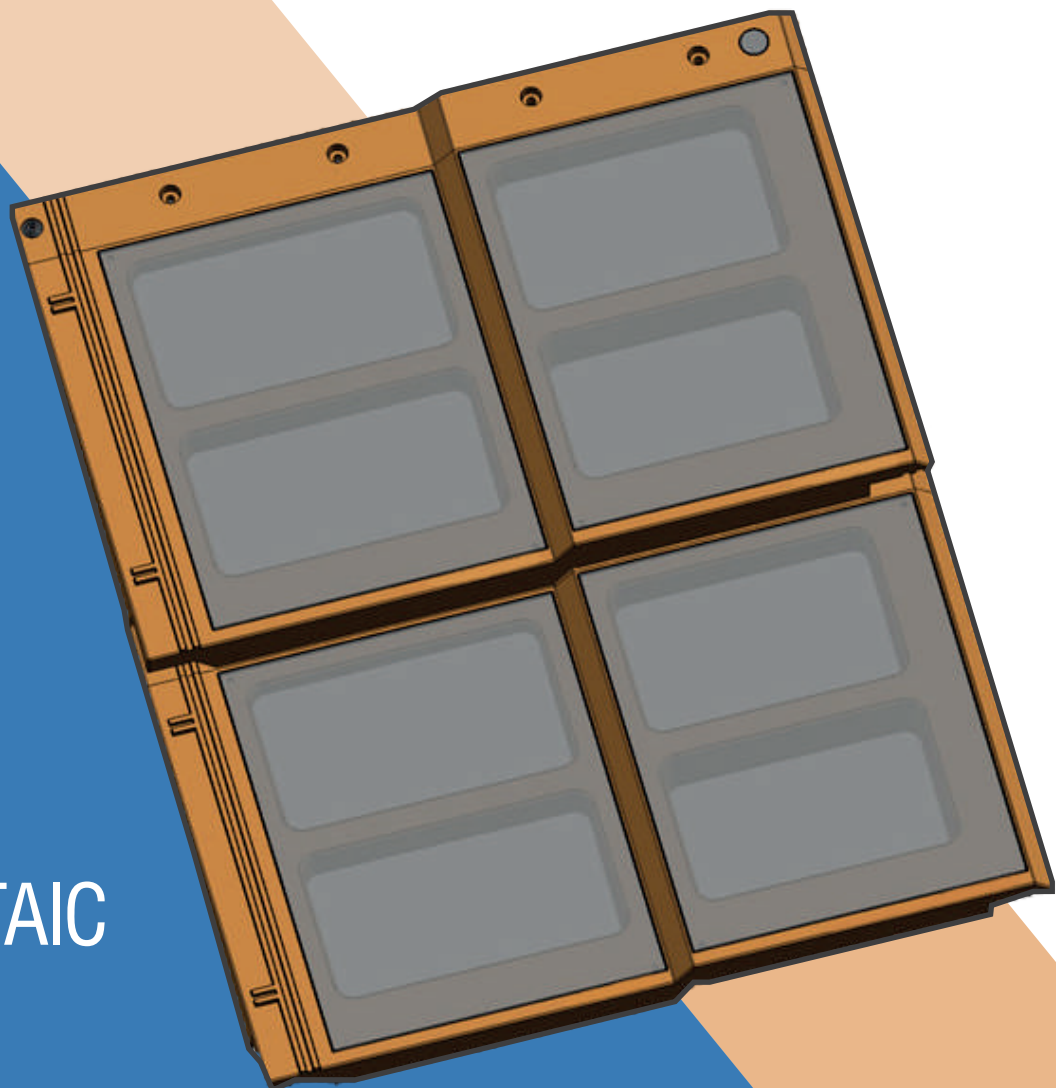


TX24

THE NEW PHOTOVOLTAIC ROOF TILE



TX24 is a photovoltaic building element with innovative features if compared to what is available on the market so far.

- **THE SHAPE:** the frame in thermosetting resin (SMC) is shaped to reproduce, on an enlarged scale, the shape of a traditional tile roof, for an architectural integration that respects the strictest landscape and architectural constraints.

- **THE COLOUR:** the red photovoltaic laminate, built with 6" polycrystalline coloured cells, is inserted in the brick-coloured frame to create a chromatic effect that comes close to red tile roof.

- **THE CONNECTORS:** they connect electrically to each other with a patented contact (without cables) which makes mounting on the roof quick and easier.

- **THE STRUCTURE:** the structure and the material are designed to achieve a high mechanical resistance.

PATENTS:
MI2012A002087
EU 13818439.5
USA 14/649.435
MX 007161



MADE IN ITALY



**100%
RECYCLABLE**



**EXCELLENT AESTHETIC IMPACT
THROUGH THE COLOUR SIMILAR
TO THE TRADITIONAL TILE ROOF**



**NO CONNECTING CABLES
BETWEEN THE TILES**



**QUICK AND EASY MOUNTING
WITH PATENTED INTEGRATED
ELECTRICAL CONNECTORS**



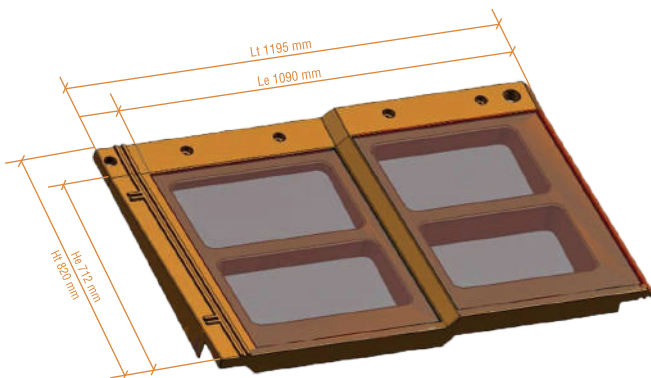
**DIRECT FIXING TO
THE ROOF JOISTS**

DIMENSIONAL CHARACTERISTICS

| | |
|----------------------------------|----------------------|
| Exposed height - He | 712 mm |
| Exposed length - Le | 1090 mm |
| Total height - Ht | 820 mm |
| Total length - Lt | 1195 mm |
| Thickness | 40 mm |
| Vertical overlap along the pitch | 108 mm |
| Horizontal overlap (lateral) | 105 mm |
| Exposed area | 0,78 m ² |
| Minimum roof tilt | 17° |
| Maximum roof tilt | 45° |
| Distance between the laths | 712 mm |
| Weight | 16 kg |
| Specific weight | 20 kg/m ² |
| Mounting screws (self-taping) | 4 screws |

MAIN BENEFITS

- Standard red-cooked colour and/or custom request
- Interlocking installation with sealing overlap
- Patented electrical connection without cables
- Easy fitting
- The connection between lines to create the strings is made through an integrated connection in the frame
- Reduction of installation time



Lt: Total length Le: Exposed length Ht: Total height He: Exposed height

CHARACTERISTICS OF THE COMPONENTS

| | |
|--------------|---|
| Frame | SMC (Sheet Moulding Compound) 0300. Product based on polyester resin, reinforced with glass fiber and mineral filler. No melting contact with fire, no drops generation, does not develop fumes. |
| Glass | Tempered, pyramidal, anti-reflective, thickness 3,2 mm. |
| Cells | Polycrystalline, 156x156 mm (6"). |
| Bypass diode | Integrated in the laminate. |
| Incapsulant | 2 sheets of EVA, thickness 0,45 mm. |
| Backsheet | Polyester-based multilayer, PYE/PPE, thickness 0,30 mm, transparent. |
| Connectors | In copper and delrin, no junction box. Patented Design. |

ELECTRICAL CHARACTERISTICS

| | |
|------------------------------------|--------------|
| Number of cells | 24 |
| Power at STC (wp) | 100 |
| Voc (V) | 15,4 |
| Isc (A) | 8,9 |
| Vmpp (V) | 11,9 |
| Imp (A) | 8,45 |
| Efficiency | 14,6 % |
| Specific Power (W/m ²) | 128 |
| Temp. coefficient of Pmax | 0,05 % / °C |
| Temp. coefficient of Isc | -0,35 % / °C |
| Temp. coefficient of Voc | -0,40 % / °C |

- **TILES** (with no photovoltaic modules): to complete the roof and make it uniform, in those areas where there is no need of a photovoltaic surface, are available tiles with the same shape as photovoltaic panels but with no photovoltaic modules.
The tiles can be cut or shaped as needed.
1 tile = 0,78 sqm