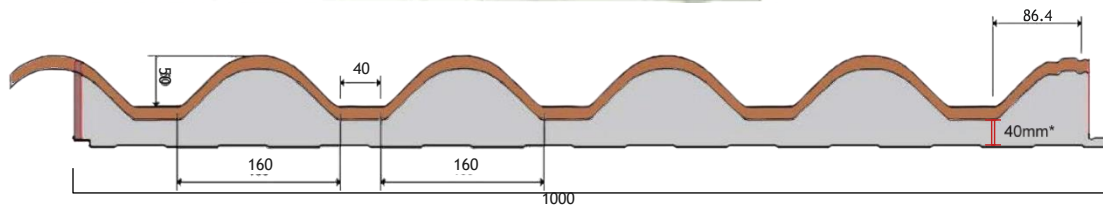


Product Data Sheet
Tile roof panel - PCT 1000



100% Watertight



This product meets the requirements of Regulation (EU) No 305/2011 of the European Parliament and of the Council laying down harmonized conditions for the harmonized conditions for the marketing of construction products and complies with Annex ZA of Standard EN 14509:2013

Designation

Isothermal panel for covering roofs with an outer face imitating traditional tiles.

Description:

It consists of two profiled steel sheets interconnected by rigid polyurethane foam (PUR B3, PUR B2) or polyisocyanurate (PIR) insulation to form a panel with a useful width of 1000 mm. It fits laterally with other panels to cover a surface area.

Its aesthetic shape resembles traditional tiles.

Fixing is done with a self-tapping screw in the recess area (exposed fixing)

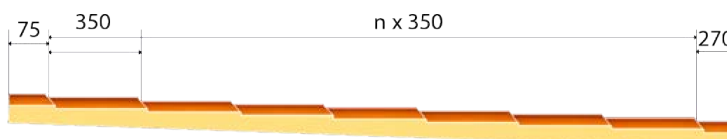


Dimensions

Thickness: 40 mm
A tolerance of +/- 2 mm.

Useful width: 995 mm
A tolerance of +/- 2 mm.

Length: According to the customer's request and subject to the following limits
- Minimum: 2.800 mm*
- Maximum *: 14.000 mm
A tolerance of +/- 10 mm.
* Other sizes on request



Standard dimensions:

| Measures (mm) | N.º of "tiles" | Measures (mm) | N.º of "tiles" | Measures (mm) | N.º of "tiles" |
|---------------|----------------|---------------|----------------|---------------|----------------|
| 2.800 | 8 | 6.650 | 19 | 10.500 | 30 |
| 3.150 | 9 | 7.000 | 20 | 10.850 | 31 |
| 3.500 | 10 | 7.350 | 21 | 11.200 | 32 |
| 3.850 | 11 | 7.700 | 22 | 11.550 | 33 |
| 4.200 | 12 | 8.050 | 23 | 11.900 | 34 |
| 4.550 | 13 | 8.400 | 24 | 12.250 | 35 |
| 4.900 | 14 | 8.750 | 25 | 12.600 | 36 |
| 5.250 | 15 | 9.100 | 26 | 12.950 | 37 |
| 5.600 | 16 | 9.450 | 27 | 13.300 | 38 |
| 5.950 | 17 | 9.800 | 28 | 13.650 | 39 |
| 6.300 | 18 | 10.150 | 29 | 14.000 | 40 |

Base materials

Metal support

- Rolled steel (EN 508; EN 10143), galvanized (EN 10346) and pre-painted (EN 10169) Note: sheet thickness subject to consultation.

Coating

- Standard: 5 µm primer + polyester paint 20 µm^{Sob consulta}

- Rigid polyurethane foam - PUR B3, without reaction to fire class
- Rigid polyurethane foam - PUR B2, with a reaction to fire class of B s2 d0
- Rigid polyisocyanurate foam - PIR, with a reaction to fire class of B s1 d0

Insulating core

- Average density: 37 kg/m³ ± 10%
- Condutibilidade térmica λ= 0.025 W/m.K
- Foam free of CFC's

Mechanical characteristics

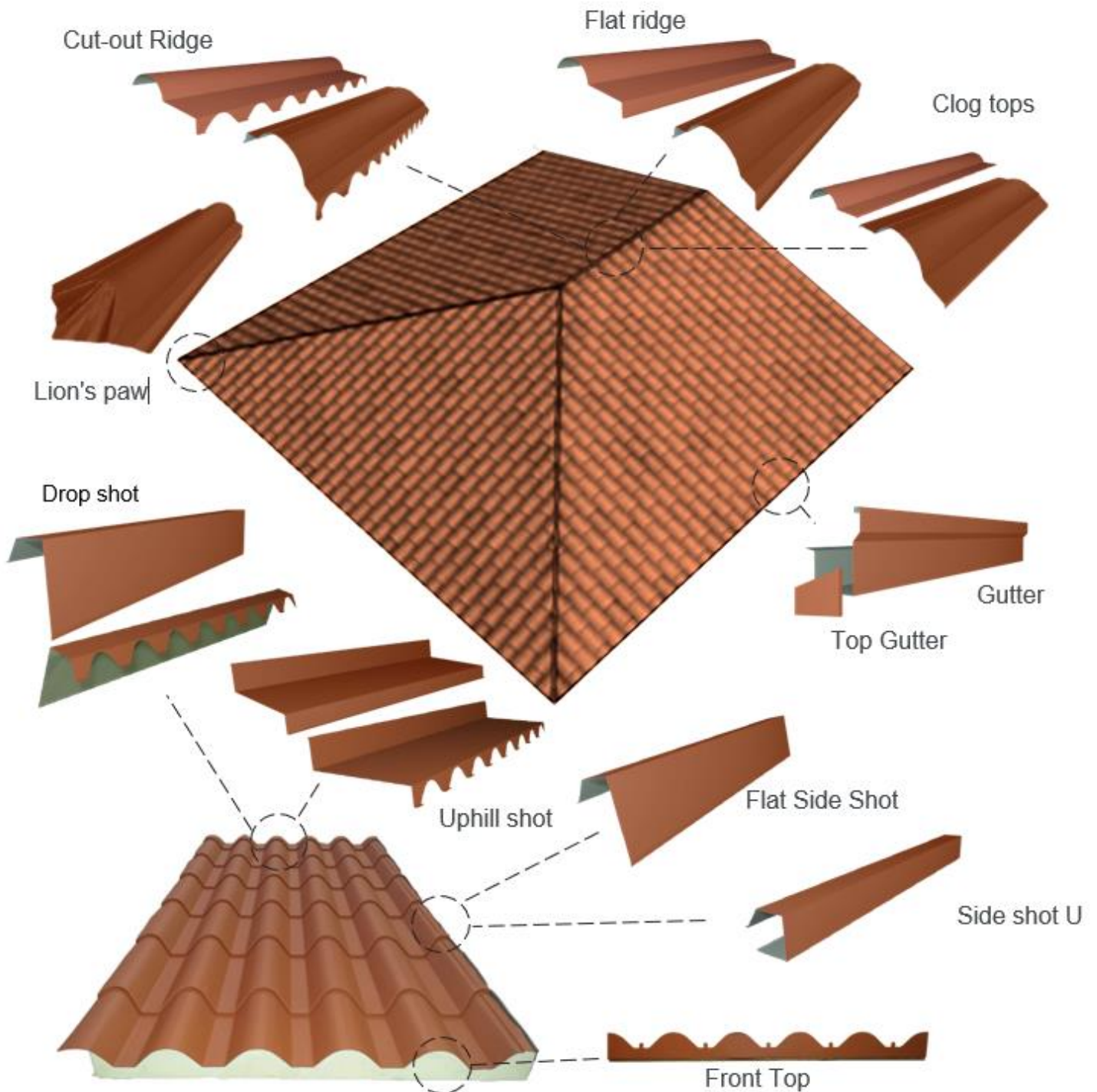
Adhesion (tensile strength on the support) > 0.018 MPa
 Compressive strength for 10% deformation > 0.100 MPa

Characteristics

Table of permissible loads

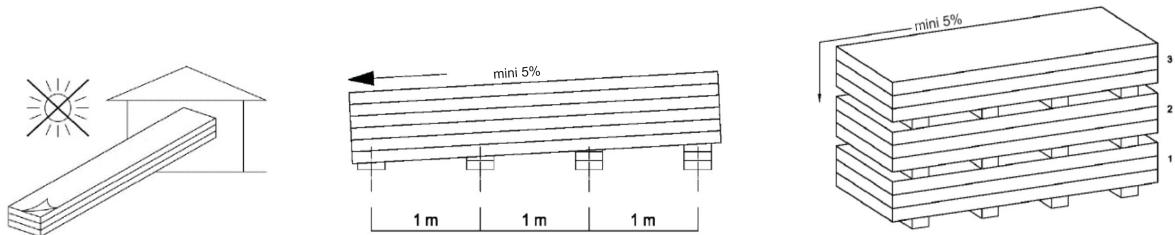
| Sheet thickness 0.5/0.40 mm | | | | | | | | | | | | | |
|------------------------------|--|-----------------------------------|------------------------|--|-----|-----|-----|-----|-------|-----|-----|-----|-----|
| Nominal panel thickness (mm) | Thermal transmission (W/m ² .k) | Panel weight (Kg/m ²) | kg/m ² | Maximum flexion = 1/200L Uniformly distributed load | | | | | | | | | |
| | | | | ▲ ▲ | | | | | ▲ ▲ ▲ | | | | |
| | | | | 80 | 100 | 150 | 200 | 250 | 80 | 100 | 150 | 200 | 250 |
| 56 | 0.46 | 10.12 | Maximum distance a(cm) | 393 | 365 | 303 | 264 | 237 | 534 | 488 | 405 | 353 | 317 |

Accessories

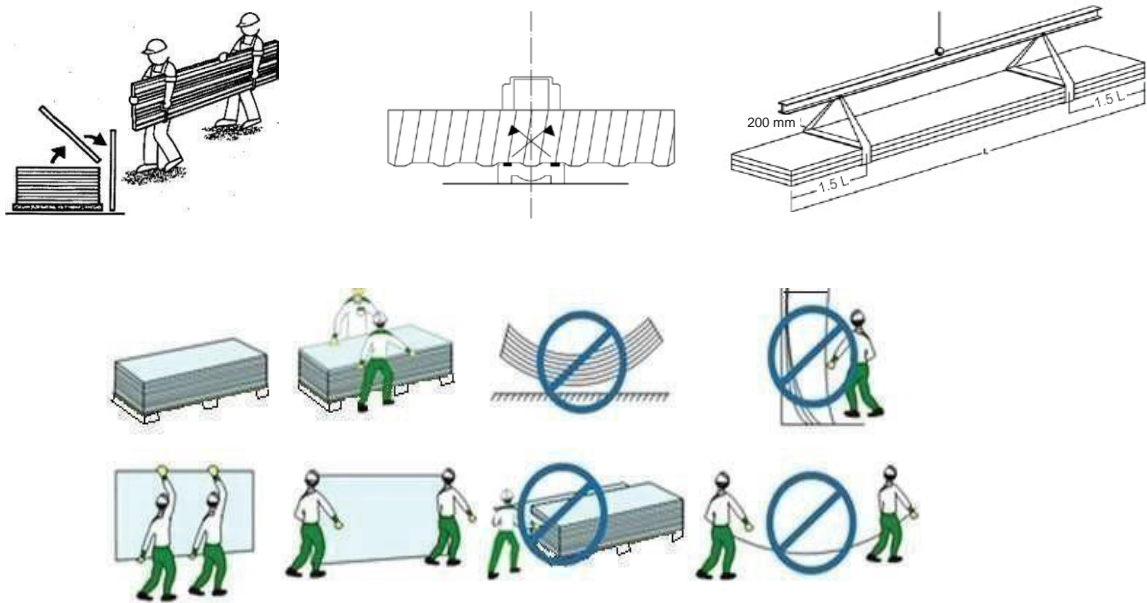


Other recommendations:

1. Storage:



2. Panel application



3. Environmental recommendations

The isothermal panel is a product made up of two different materials: metal and polyurethane foam.

Due to the absence of really dangerous or toxic additives encapsulated in the polyurethane polymer, the foam is considered an inert material, posing no risk to the environment.

At the end of the product's life, its components must be separated:

- The sheet metal should be disposed of as scrap with the respective LER code 20 01 40
- The polyurethane must be disposed of as waste insulation material whose Code **LER 12 01 99**.
- The packaging used to pack the batch of Panels is all made of plastic materials such as stretch film and styrofoam, this packaging waste should be sent with the code **LER 15 01 02**.