



PLASMA

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Lohas Plasma: A quality product of contemporary clay manufacturing by innovative design engineers, Lohas Plasma serves as the perfect flat terracotta roof tile for environmentally sustainable performance and fashionable modern looking.



Specification

- Tile weight: 4 kg
- Tiles/ sqm (coverage): 12.5
- Batten set out: 38.5 cm
- Tiles/pack: 6
- Dimension: 251 x 487 mm



Flexural strength



Impermeability



Frost resistance



Geometric characteristics





PLASMA • FACADE • SLATE

Being the first roof tile model completely flat produced in the Iberian Peninsula, Plasma presents itself as LOHAS Australia premium brand in its segment. With an innovating design, being totally flat and extremely smooth, Plasma seems like a perfect rectangle after being installed and stands out as an option clearly directed to the market of contemporary architecture. Plasma is intended not only for roof covering but also façades, pointing to a whole new concept of integrated clay covering, allowing a complete continuity of the colour and aesthetic of the building without needing to introduce different materials.



Roofing



Facade

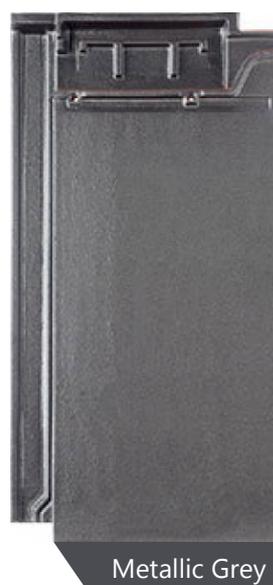


**Roofing
&Facade**



PLASMA COLOURS

- Ensures total water sealing through the interlocking system between the tiles
- It is intended not only to cover roofs but also facades
- The best water tightness, even in very harsh climate situations
- The high firing temperatures guarantees the lowest level of absorption



FACADE 1 COLOURS



Pearl White



Steel Grey



Metallic Grey



Ebano

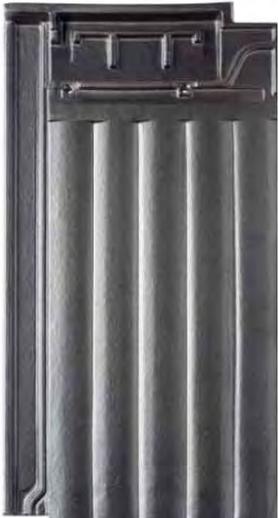
FACADE 2 COLOURS



Pearl White



Steel Grey



Metallic Grey



Ebano



SLATE COLOURS



Ebano



Steel Grey





PLASMA

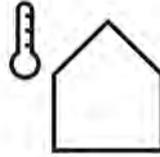
Facade 1





Sound Insulation

The roof proves a sound barrier, improving comfort and reducing acoustic noise inside buildings



Thermal Insulation

Clay roof tile provides shading to the buildings. Associated with ventilation, the clay roof tile covering significantly reduces the heating effect of sun exposure.



Technical Support

Provided by experienced technical people. Technical support to the applicator clarifies any doubt during the construction period



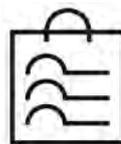
Architects Support

Service support for the project, calculation of quantities, fittings identification and budgeting. Beyond the provision of general construction details for each type of roof tile, this service assists and assesses its integration into the project.



Tank water safe

Clay roof tile is a non-toxic product with a natural origin, allowing the use of rainwater for multiple purposes.



Minipacks

Assembled roof tiles in minipacks to enable better storage, pallet stability and facilitate transport and handling during application.

PLASMA



Facade 2



RECOMMENDED ACCESSORIES

- Ridge
- Starter
- Apex
- Half tile
- Barge tile (right)
- Barge tile (Left)
- Gable tile (right)
- Gable tile (left)



■ Ridge tile



■ Hip starter



■ 3-way Apex



■ Barge tile left



■ Barge tile right



■ Gable tile right



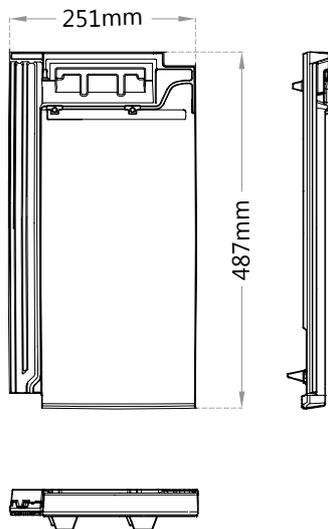
■ Half tile



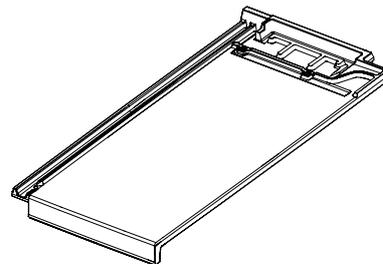
■ Gable tile left



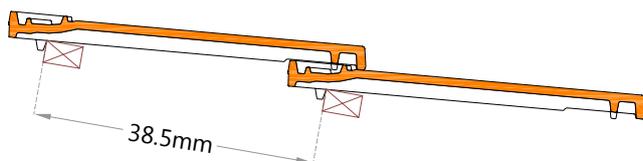
PLASMA ROOF TILE TECHNICAL DRAWING



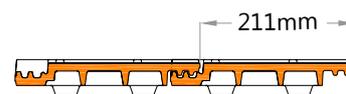
1. Transversal and longitudinal views



2. Isometric view



3. Average gauge length



4. Coverage width of 1 Plasma roof tile

Notes:

The presented measures are approximate values in "mm". Please consult the LOHAS technical department to clarify any doubt. We strongly advise not using PVC batten due to its flexibility and way of attachment to the structure (often using nails or bolts with a significant "head") that may interfere with the proper support of the PLASMA tile. It is not advisable to fix Plasma roof tile using nails, however, opting for this method the tip of the nail should be adapted to prevent cracking or breaking during application.





PLASMA FACADE

a new type of ventilated facade.

PLASMA FAÇADE

a new type of ventilated facade.

Plasma façade is a new type of ventilated façade, where the external cladding is made of Plasma clay tiles. **Ventilated façades** are nowadays a building process recognized for its good performance:

- Rain protection;
- Avoids thermal bridges;
- Avoids internal condensation (given the possibility of applying the thermal insulation on the outside surface of the walls);
- Help temperature dissipation (solar radiation is partially reflected, the thermal transmission between the external cladding and the wall is very low due to the air circulation between the two elements).

Plasma Façade offers a set of additional advantages:

- It is non-combustible (class M0);
- Resists atmospheric agents;
- Ensures total water sealing through the interlocking system between the tiles;
- Provides a fixing system always hidden;
- Allows horizontal adjustments (under request to our technical department);
- Allows the use of direct fixing structures with no need for adjusting systems;
- It is a more economical ventilated façade solution due to the cost of the external cladding and the cost of the fixing structure;
- It is a solution not only for new buildings, but also is especially suited for rehabilitation.



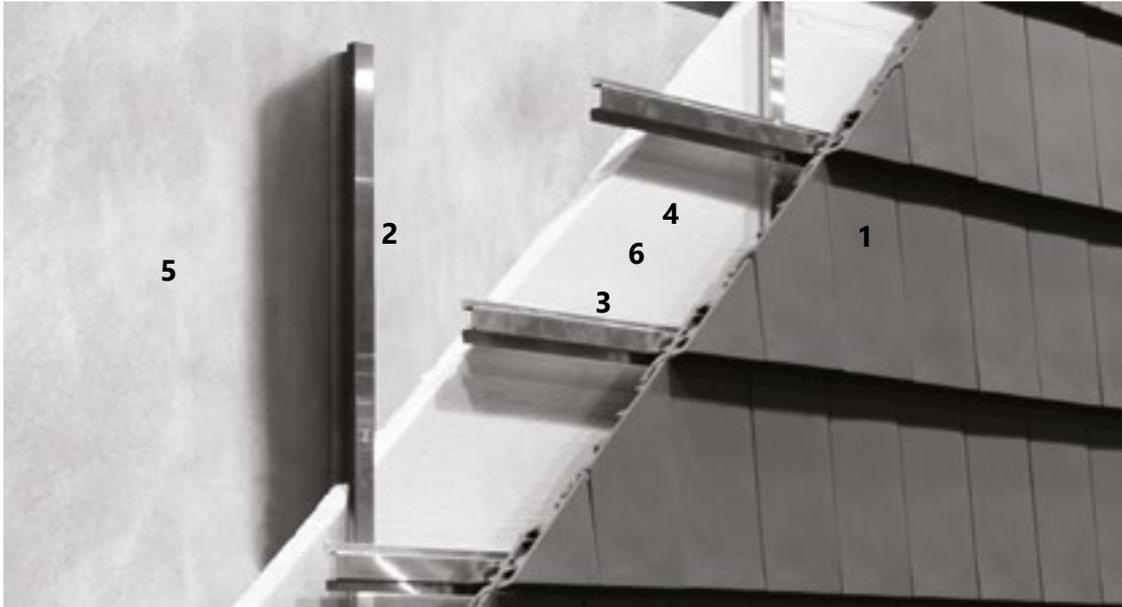
SUPPORT STRUCTURE:

It consists of two aluminium profiles:

- **“Z” profiles:** directly fixed on the wall, acting as vertical supports;
- **“Omega” profiles:** screwed to the “Z” profiles, where Plasma tiles are going to be screwed to.

THERMAL INSULATION:

“Z” profiles must be spaced to ensure total use of the expanded polystyrene panels of 1000 x 1000 x 60 mm, or the black agglomerated cork panels of 1000 x 500 x 60 mm, fixed on the wall with appropriate adhesives.



1. Plasma roof tile
2. “Z” profile
3. “Omega” profile
4. Insulation
5. Wall
6. Air gap



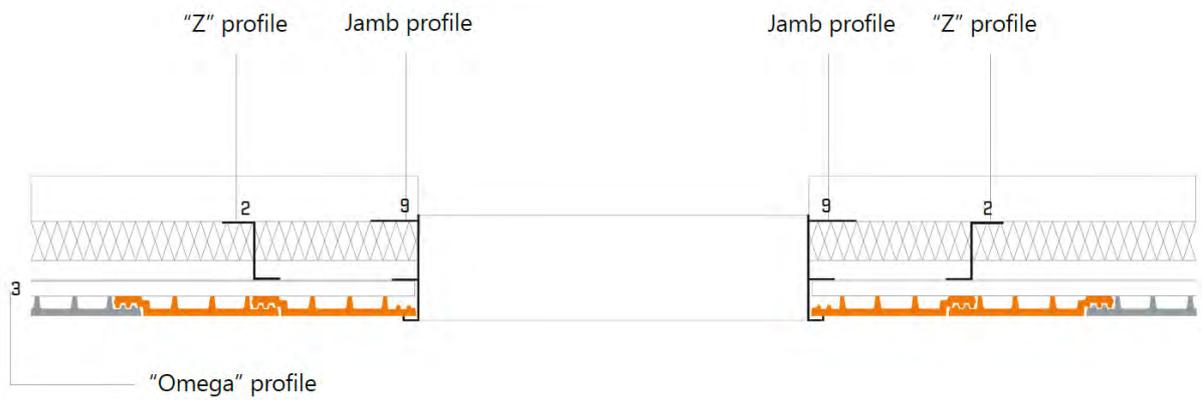
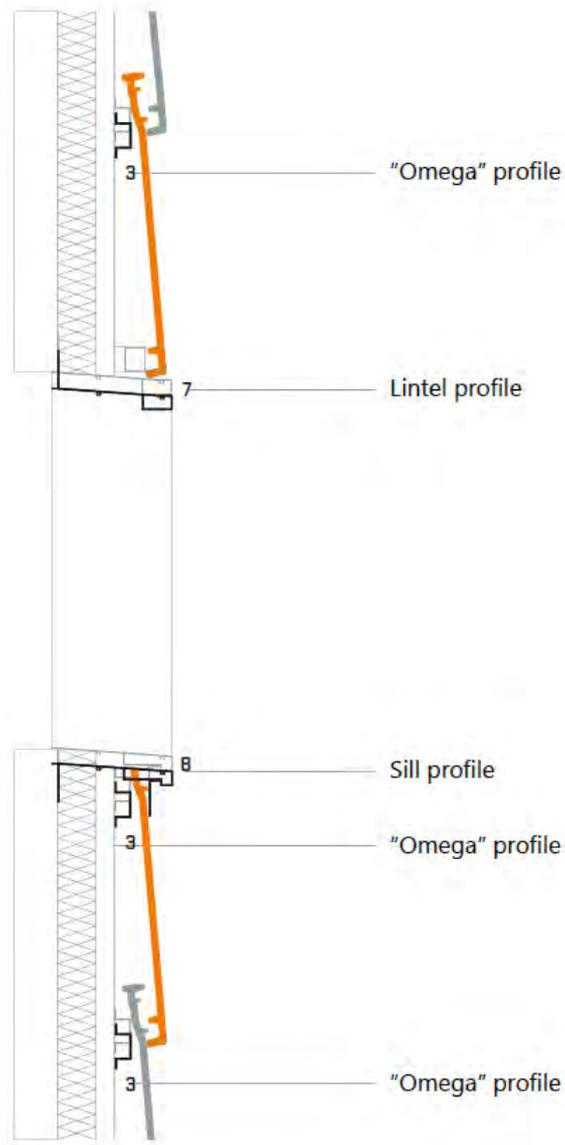
88° and 90° - Standard angles.

Other angles, under request.

Finishings between tiles and bays:

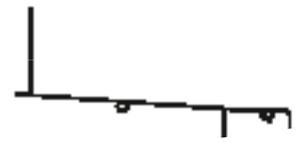
three aluminium profiles - sill, jamb and lintel - ensure the perfect transition between the external plane of the façade and the frame of windows or doors, whichever the type of opening (hinged or sliding).



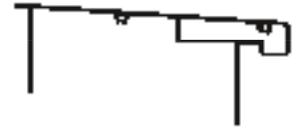




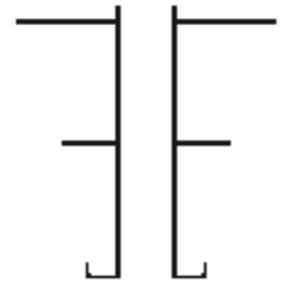
7. Lintel profile



8. Sill profile



9. Jamb profile



External and internal façade corners:

By industrially cutting and gluing the clay pieces, a new single L-shaped tile is created with the desired angle.



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