

# La Tea



**CASAS ITER**  
BIOCLIMÁTICAS

## HOW DOES THE IDEA COME ABOUT?

The **La Tea** is designed based in the interaction between architecture and the trade winds. The volumes of stone protect the dwelling from the wind while using it to create a microclimate. The Tufa stone and the open sky wrap the construction. The simplicity and austerity of the materials, and the proper disposition of the house, are its main strengths. The common areas encourage meetings both inside and outside. The patio feeds the rooms with fresh air, providing a refuge of tranquility where a lemon tree shelters from the afternoon sun.

This house has been designed to achieve optimal indoor climatic conditions of temperature and relative humidity with the help of the user. Comfort conditions for temperature are assumed between 21oC and 26oC and between 20% and 80% for relative humidity. All the strategies proposed will be aimed to maintain the house within these parameters, especially thermal, without using energy consuming appliances, only through bioclimatic techniques. The climatic data of the house can be accessed through a screen in the interior.

## BIOCLIMATIC STRATEGIES

The main bioclimatic strategies used in **La Tea** house are:

- High index of glazing with high solar gains that allow temperature regulation in the interior through the use of louvers and blinds in the living room and the upper room.
- Thermal inertia through thick walls with a coarse plateau coating on two sides.
- Interconnection of different oriented spaces generating a natural air flow.

## HOW IS THIS BIOCLIMATIC HOUSE USED?

### *If it's warm*

- Open the sun protected doors to help cross-ventilation.
- Lower the blinds to prevent direct sunlight.
- Close the louvers of the patio to prevent direct solar radiation

### *If it's cold*

- Allow direct sunlight in to increase thermal gains
- Raise the blinds to allow the incidence of direct sunlight.
- Open the louvers of the patio



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