

El Cangrejo



CASAS ITER
BIOCLIMÁTICAS

HOW DOES THE IDEA COME ABOUT?

The **El Cangrejo** dwelling is shaped by vaulted roofs spring from the ground leaping towards the South West, so that the North East winds fly over unobstructed. The living spaces are arranged around a patio that provides privacy and facilitates the flow between the indoor and outdoor activities. Its interior is full of geometric shapes, different from any other dwelling, generating singular spaces full of interest

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 the house **El Cangrejo** are:

- Large glazed surfaces, one facing west and one facing south to facilitate direct thermal gains protected with an overhang.
- Strategic orientation to avoid solar radiation from afternoon to sunset.
- Cross-ventilation through the interconnection of opposite spaces.

HOW IS THIS BIOCLIMATIC HOUSE USED?

If it's warm

- Open doors for cross ventilation.
- Lower blinds to prevent direct sunlight entry.
- Shut the louvers.

If it's cold

- Raise the blinds so that the heat of the sun may enter.
- Close the doors so that the accumulated heat does not escape.
- Open the louvers.

