

El Escudo



CASAS ITER
BIOCLIMÁTICAS

HOW DOES THE IDEA COME ABOUT?

The house **El Escudo** is designed as a thermodynamic machine that uses the microclimate of the site. It is an example of standardization and cheapness unified in a good result. The exterior hides the surprise that waits inside. The dwelling, elevated from the ground, with an interior garden that articulates the house, warm despite the sandwich panel that from its walls. With a magnificent terrace that extends towards the Atlantic, perfect to enjoy the sunsets.

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 Escudo** are:

- Sun protection by adjustable blinds to regulate manually the energy's intensity.
- Interior garden that articulates the day and night spaces of the house and regulates relative humidity.
- Cross ventilation thanks to the interaction of the patio and the mobile facades in different orientations.

HOW IS THIS BIOCLIMATIC HOUSE USED?

If it's warm

- Open doors and windows for cross ventilation
- Water moderately the inner garden to humidify the environment
- Shut the louvers

If it's cold

- Close doors and windows so that the accumulated heat does not escape.
- Open the louvers.
- Enjoy the rooms facing south with 16,74m² glazed.



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