

El Muro



CASAS ITER
BIOCLIMÁTICAS

HOW DOES THE IDEA COME ABOUT?

El Muro house is conceived for and from the site, integrating in its architecture the landscape, culture, history and local materials of the area, reinterpreting the traditional skills. A central wall divides the house into two spaces: day and night areas. The living room opens to the terrace and to the magnificent views. This outer-inner space invites to the coexistence and interpersonal communication with nature. The basaltic rock wall, the wood and the vegetation that is introduced in the house through the windows make this house a particularly welcoming place.

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 **El Muro** house are:

- Central basaltic rock wall concentrates the heat emitted at night (thermal inertia).
- Patios that allow the entrance of natural light and the renovation of the air in the different rooms.
- Cross ventilation in all rooms of the house.
- Solar protection with adjustable louvers.
- Optimum orientation to protect the house from wind and overheating.

HOW IS THIS BIOCLIMATIC HOUSE USED?

If it's warm

- Lower the blinds to prevent direct sunlight
- Open the top of the wall to create air drafts (not exceed)
- Shut the louvers

If it's cold

- Raise the blinds to allow the sun radiation to enter and be stored in the wall.
- Close the top of the wall to prevent air drafts
- Open the louvers



PROYECTO COFINANCIADO
POR LA UNIÓN EUROPEA
Más crecimiento y
eficiencia de los recursos