

El Alisio



CASAS ITER
BIOCLIMÁTICAS

HOW DOES THE IDEA ARISE?

The trade winds are the essence of El Alisio house. They forge its shape, its energy, its freshness and waft the scents of the garden. The 4 elements inspire the different systems.

The house has beautiful views and a large common meeting space. It is surrounded by terraces, which include a private to the bedrooms on the top. The resting area and the common area are located in 2 independent constructions that dissociate the uses.

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 STRATEGICS

The main bioclimatic strategies used in El Alisio house are:

- The east wall protects the dwelling from the wind and also acts as a wind collector.
- 20 cm high thermal inertia wall built between two other walls with a separation of 40cm.
- East-oriented wind collector connected to 45 cm pipes buried under the house, introduce the fresh air inside the house through air vents
- Cross ventilation from the interconnection of the different facades of the house.

HOW IS THIS BIOCLIMATIC DWELLING USED?

If it's warm

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

If it's cold

- Raise the blinds to let the sunlight in.
- Close the doors to prevent the accumulated heat from escaping the space.
- Open the louvers.



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