

Youth initiative

Learn how to build an eco-house using clay, straw and sand.

Nidri - Lefkas (Greece) October 31 - November 14 2014



Presentation:

What is an eco-house?

There are various ways of conceiving an eco-house. The primary principle lies on constructing and arranging in an environment-friendly way, which means:

- laying the stress on a natural and reinforced isolation in order to save energy.
- choosing natural material such as wood, straw, clay, preferably of local stock/origin.
- applying a system of eco-heating, such as solar panels, heat pump etc.
- arrange the building in line with a bioclimatic logic (rooms' orientations, protection against wind and sun by mans of trees and a protruding tile roof etc.)

Live in a "green way" thanks to a house built of clay:

The clay, a natural and inexhaustible building material

We are continuously in quest of brand new, eco-friendly and sustainable building materials in order to minimize our environmental "footprint". Nevertheless we needn't always turn to state-of the art technologies to reach an appropriate solution!

Clay is a building material in use for over 10.000 years and offers the same advantages as the modern building materials. In order to fabricate clay, you only make use of earth, i.e. an inexhaustible resource, available all around you.

A building of clay, for a green, sustainable residence

To fabricate clay, very little energy is required. The production process is essentially sustainable for this very thing. Even while extracting clay and building with it, little energy is consumed. On the other hand, clay is a “green” material, which is produced without any dangerous substance being given off. Clay thus, is ideal for building eco-houses and helps save energy.

Clay as a regulator of humidity and heat

Clay helps create a living microclimate at home much more healthy. Being an organic material, it has the precious property to regulate humid and heat. Thanks to clay, the rate of humidity in the air stays around 50% indoors. In modern houses built of sophisticated materials, people often face an excessively low rate of humid, which is vexing and unhealthy at that.

Even in terms of temperature, clay has the upper hand. This material absorbs heat, which staves off steep slumps of temperature. Moreover, less energy is needed to create an agreeable feeling of heat. A healthy indoors climate subsumes the numerous advantages offered by clay-building.

Become your own eco-construction surveyor:

You will need practically no tool or machine since you will utilize exclusively the local resources (clay, sand, straw) and some recycled (or: re-usable) materials to build a simple house. It all amounts to a real life experience too close to nature. If the constructing process is made almost instinctively, one will need a guide to remind them of the forgotten actions, teach them to be self confident and avoid the inevitable mistakes of the beginner (or: novice).

Thus, it is high time you plunged yourself into building your own house and to make the “fairy tale house” come into reality.

“Solidarity Tracks”, offers you a unique opportunity to live through this experience and learn how to build an eco-house in a simple and creative fashion, with the assistance of an expert in this type of constructions.

It is important that you realize that you’re going to erect by your own hands a sustainable house, which will be a teaching model for the generations to come!



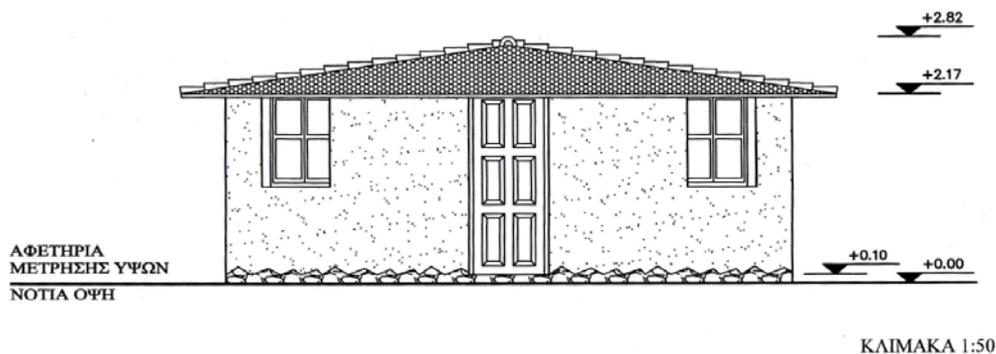
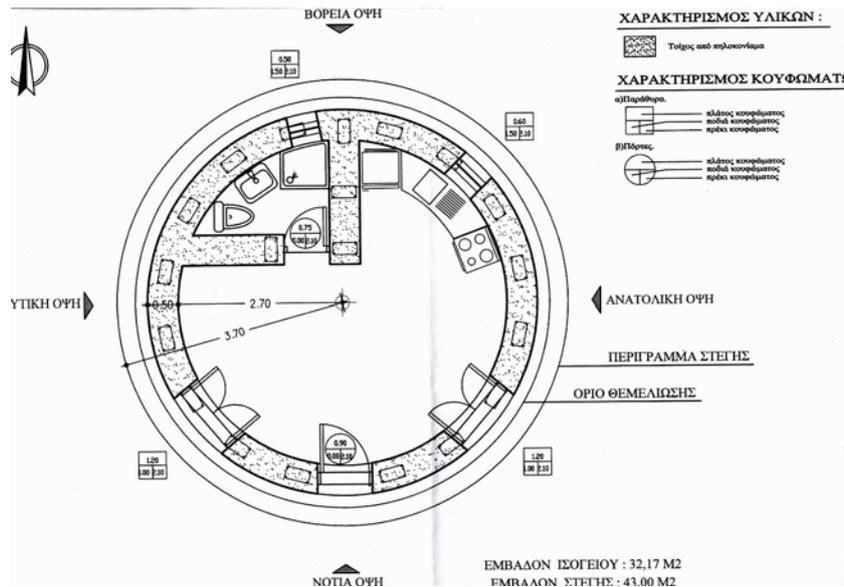
What you're going to do while on the work camp:

- We are going to finalize the construction of ecological house.

To get more details about the stages of the construction of our eco-house, to this date, you may consult the following link:

<http://prezi.com/4nmx2rfs6fkd/copy-of-copy-of-live-working-process-building-our-eco-home-together-nidri-greece/>





Time table activities:

31.10.14: Welcoming

Welcoming the participants , welcome evening

2.11.14:

- Time table's discussion and finalize the final design with the architect's support, who will cooperate with the group.
- Eco Construction Workshop: completion of the eco construction made by clay, sand and straws

Evening:

- Intervention & discussion with an expert : «Ecological construction's characteristics: insulation and energy saving systems ».
- Daily evaluation

2.11.14:

- Eco construction workshop
- Daily evaluation

3.11.14:

- Eco construction workshop
- Daily evaluation

4.11.14:

Eco construction workshop

Evening : Intervention & discussion with an expert : «Clay in ecological constructions».

- Daily evaluation

5.11.14:

- Eco construction workshop
- Daily evaluation

Evening: Design of the initiative's magazine

6.11.14:

- Eco construction workshop
- Daily evaluation

Evening: Design of the initiative's magazine

7.11.14:

- Eco construction workshop
- Daily evaluation

Evening: Design of the initiative's magazine

8.11.14:

- Eco construction workshop
- Daily evaluation
- Updating the initiatives' webpage

9.11.14:

- Eco oven construction with clay and straws.
- Daily evaluation

Evening: Design of the initiative's magazine

10.11.14:

- Completion of the eco oven
- Daily evaluation

Evening: Intervention and discussion with an expert: «Eco painting technique»

11.11.14:

- Painting the eco house with natural paints

12.11.14

- Manufacture of the wooden frame of the house, using local timber
- Daily evaluation

13.11.14:

- Construction/installation of the rain water collection system, for the needs of the eco house
- Completion and promotion of the initiative's magazine.
- Update the webpage of the initiative.
- Evaluation of the initiative with the young participants and discussion about the final event «Sustainable development and entrepreneurship weekend»
- Final evening