



LEARN NEW SUSTAINABLE DESIGN PROCESSES TO PRESERVE OUR ECOSYSTEM

From residential structures to farms and other facilities, curious people, house owners, builders and architects are discovering new sustainable design processes to preserve our ecosystem while reducing our carbon footprint.

Therefore, for the first time ever, we are presenting a **Natural Building** workshop at Boomland. Everyone can participate.



NATURAL BUILDING

GENERAL PROGRAM

- Introduction to earth as a building material
- Analysis of different natural building techniques
- Theory and Practice
- Selection of Materials: Field work to assess available materials such as dirt, stones, clay, and others.
- Testing of natural materials
- Design and specification of structural components
- Fundamentals of Adobe
- Fundamentals of Rammed Earth
- Learn of how make and build adobe
- Learn how to make rammed earth
- Application of knowledge and techniques to build adobe
- Application of knowledge and techniques to build a rammed earth piece
- Finishings

Format: 80% Practical, 20% theory

DAILY SCHEDULE				
TIME	DAY 1	DAY 2	DAY 3	DAY 4
09:00	Opening and presentations	Group Dynamics	Group Dynamics	Group Dynamics
09:30	Sensory Journey	Theoretical-Practical Class "Empirical Tests"	Shipyards: a) rammed layers b) adobe production	Shipyards: a) rammed layers b) adobe production
10:00	Rooting, visit to the construction site, presentation of the object to be made and materials	Correction of mixtures for adobe and rammed earth		
11:15	Coffee	Coffee	Coffee	Coffee
11:30	Theoretical-practical class "The Science of Earth I"	Production of small samples in rammed earth and adobe bricks	Shipyards: a) rammed layers b) adobe production	Shipyards: final touches
13:00	Lunch	Lunch	Lunch	Lunch
14:00	Practice "Earth Water States"	Construction Site: working groups and assignment of tasks	Analysis of the empirical tests results	Shipyards: final touches
16:00	Coffee	Coffee	Coffee	Coffee
16:15	Practical Class "From Earth to Wall"	Construction Site: a) Assembly of mortar formwork	Shipyards: a) rammed layers b) adobe production	Shipyards: final touches and cleaning
18:00	End of Day	End of Day	End of Day	Inauguration

* Program might be adjusted depending on weather conditions



NATURAL BUILDING

RELEVANT INFORMATION

Dates: 12-15 September 2024

Location: Boomland, Idanha-a-Nova, Portugal

Participants: 20

Tutor: Cru Atelier

Accommodation: Dorm

You can bring your caravan but please let us know beforehand, the spaces are limited. If you prefer a hotel, we can suggest some in the Boomland surroundings (at the student's expense).

Food: At Boomland canteen (Vegetarian, vegan and conventional options)

Student Level: for everyone interested in learning more about sustainability, natural building, reading landscapes and a more conscious approach into human presence on earth.

Perk: The project piece will be displayed permanently at Boomland.

If you have any questions please feel free to contact us to:

school@boomland.eu

**Come Learn & Play,
Boomland School**

