Architectural Method Using Earth

Why Using Soil

Efficiency

Earth architecture has excellent heat insulation, soundproofing, and humidity control properties. "Soil" is a material that has the appropriate properties for creating free-form shapes using natural materials.

Tradition

There have been many examples of architecture using earth throughout the history of France. This tradition should be passed down in themodern era where artificial materials such as concrete are widely used. It can be assumed that the background to this tradition is the ease of obtaining materials and their high quality. Therefore, we will use architectural methods that have been passed down through the ages.

Environment

Man-made materials such as concrete are widely used in the modern building sector. And buildings have a significant impact on the environment. The use of natural materials such as soil instead of man-made materials reduces the burden on the environment. In addition, the high performance of soil can eliminate some equipment and thus reduce the load on the environment.



Layout Diagram



Master Plan

The proposal features new architectural methods and relationships with the existing elements and environment of the site. Explanation of the possibility of new architectural methods that can preserve the site and its characteristics while taking the environment into consideration.







Environment

Environmentally friendly materials. Environmental conditions of the site. Various environmentally friendly building methods have a big impact.

Site

The layout makes the most of the site, and will serve as an opportunity to generate communication not only on the small scale of the campus, but also on the large scale of the local community.

Friendly Relationship

The layout of each building will be planned to allow for good access according to its purpose, making it easy to move from one area to another..

Les Grands Ateliers - Building A





Les Grands Ateliers - Building A Section Detail



A-A' Section 1:300



Les Grands Ateliers - Building B



Les Grands Ateliers - Building B Section Detail

Building B, which is proposed to be used as a new office, will have an earthen roof that will be opento local children. The gentle slopefrom the groundwill allow easy access for children.



Les Grands Ateliers - Building B Internal Perspective

Chimilin - Renovation Building



Chimilin - Renovation Building Plans

We have given the traditional French earthen wall multiple functions, such as a desk or a chair, in addition to its conventional role as a partition, by varying its thickness and creating openings.



roof

wood structure

If there are structural concerns, add more columns for reinforcement.

earth wall

outer wall

Consult a specialist to verify the structure. Fill large cracks with masonry elements such as stone, earth bricks, or terracotta bricks. For minor damage, perform surface repairs using liquid earth mortar or lime grout.

floor & window

We used Saint-Gobain prod-



Chimilin - Renovation Building first Plans S=1:200

Chimilin - Renovation Building Plans S=1:100





