# EUITOPE

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TRADI

MODERNITY





















1-2 FRANCE 3 PORTUGAL 4 SPAIN 5 FRANCE **L ITALY** 





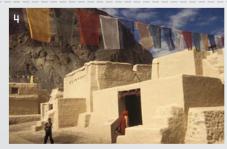




# EARTH ARCHITECTURE









MODERNIT

















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1 ARABIE SAOUDITE

7 TURKMENISTAN

2 IRAN 3-4 NEPAL **8 YEMEN**  MODERNITY

3





L CUBA
PERU
HUSA
MEXICO
USA
FRENCH GUIANA







L USA
C EL SALVADOR
LO-11 PERU
LO-12 BRAZIL
LO-13 BOLIVIA

















## WEALTH AND MODERNITY AROUND THE WORLD









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RADITIO







#### SITE SELECTION AND BUILDING ORIENTATION

Before constructing, it is necessary to think well about the choice of the site and the orientation of the building.









The durability of a building first of all depends on the context in which it is constructed. It is necessary to consider several factors before the construction, such as the nature of soil, the climate (rain, wind, sun...), the topography of the site, etc





The orientation of the building must guarantee good protection against rains, winds, direct solar exposition.



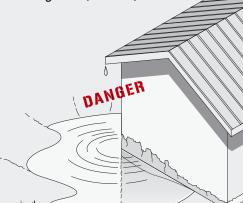
Provision should be made for the whole building periphery in order to drain the stream waters far from the foundations and to avoid water concentrations which could further cause erosion.







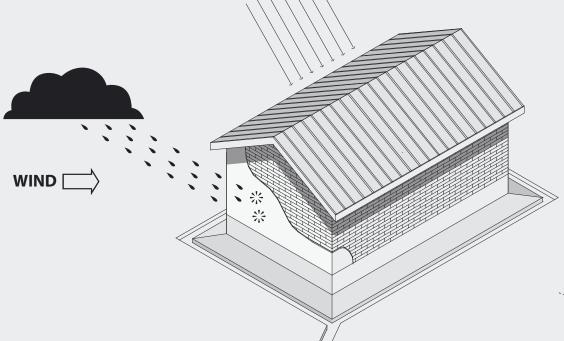
Take special care on the site, avoid hollowed grounds, termites, roots...

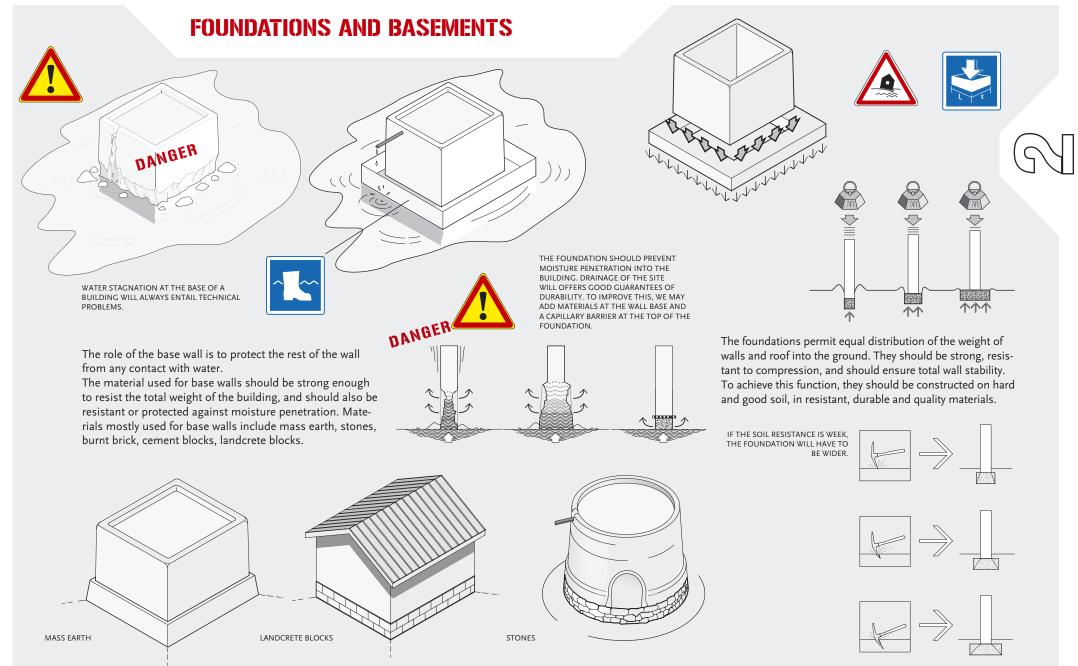


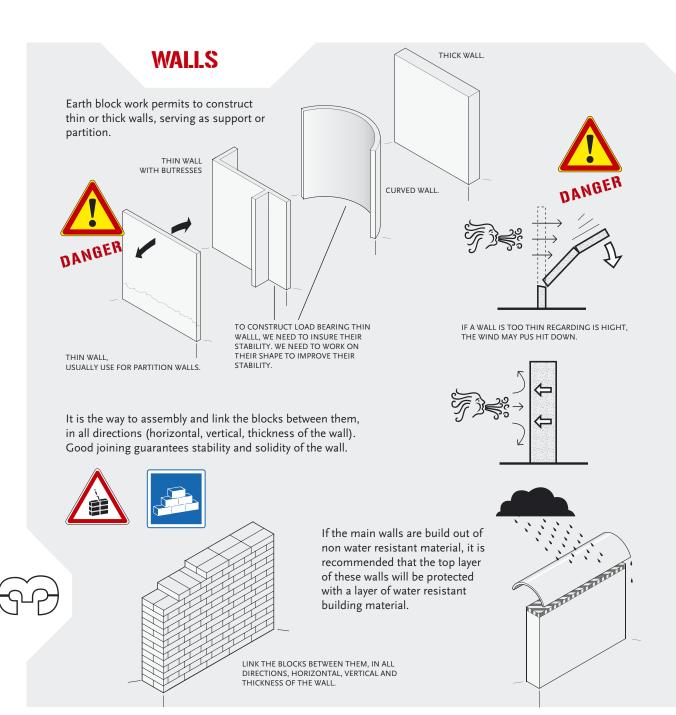






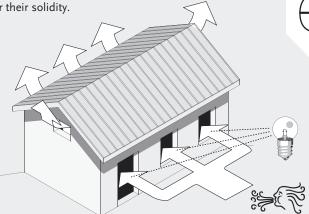






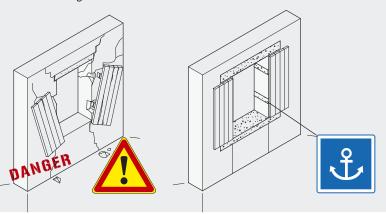
### **OPENINGS**

The openings permit to illuminate and to ventilate the inside of the building. They represent nevertheless a weak point in the structure of the building. It is often from the openings that appear many cracks. Therefore it is necessary to look after their solidity.



The vibrations and shocks resulting from the manipulation of the doors and windows can cause some cracks in the walls.

It is therefore necessary to anchor well the joineries in the masonry. In the masonry around the windows, integrate some resistant blocks which will serve later to reinforce the frames anchorages.



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## EARTH ARCHITECTURE

## ROOF

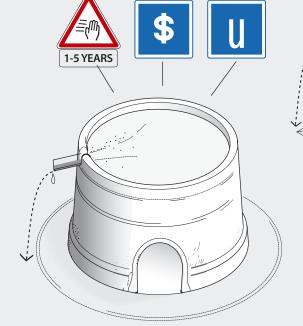
The earth constructions must be protected with good roofing, especially in the regions affected by raining seasons. The roofing is like a «hat» for the earth constructions; it must allow the evacuation of rain waters and preserve the building



from humidity.



The mud flat roofs are more sensitive to water than the slopping roofs, and need a permanent maintenance, but because of their good thermal insulation, they are well adapted for hot and dry climates.



The sloping roof with a minimum overpass of 30 cm (12") is very efficient to evacuate the rainwater and protect the earth walls. The anchorage of the roofing into the wall is indispensable to reduce the risks of distortion and uprising of the roofing under the pressure of strong winds.

**PLASTERING** 

The main functions of the plastering are the protection of the wall from rain and shocks, the prolongation of the wall lifetime and the improvement of the appearance of the wall.



A good plastering should have a good adhesion to the wall without causing any damage to it, should be flexible enough to absorb possible distortions of the wall without cracking, should be water resistant to some extand but also permeable enough to let water and steam go out from the wall, and finally should have good appearance compatible with the local environment.



