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Object

INSTRUCTION BOOKLET
REHABILITATION OF THE ORPHANAGE
ELISA ANDREOLI, ORURO

December 2014

Architectural Design
ARCò - Architettura e Cooperazione
Società Cooperativa



GREEN ROOF

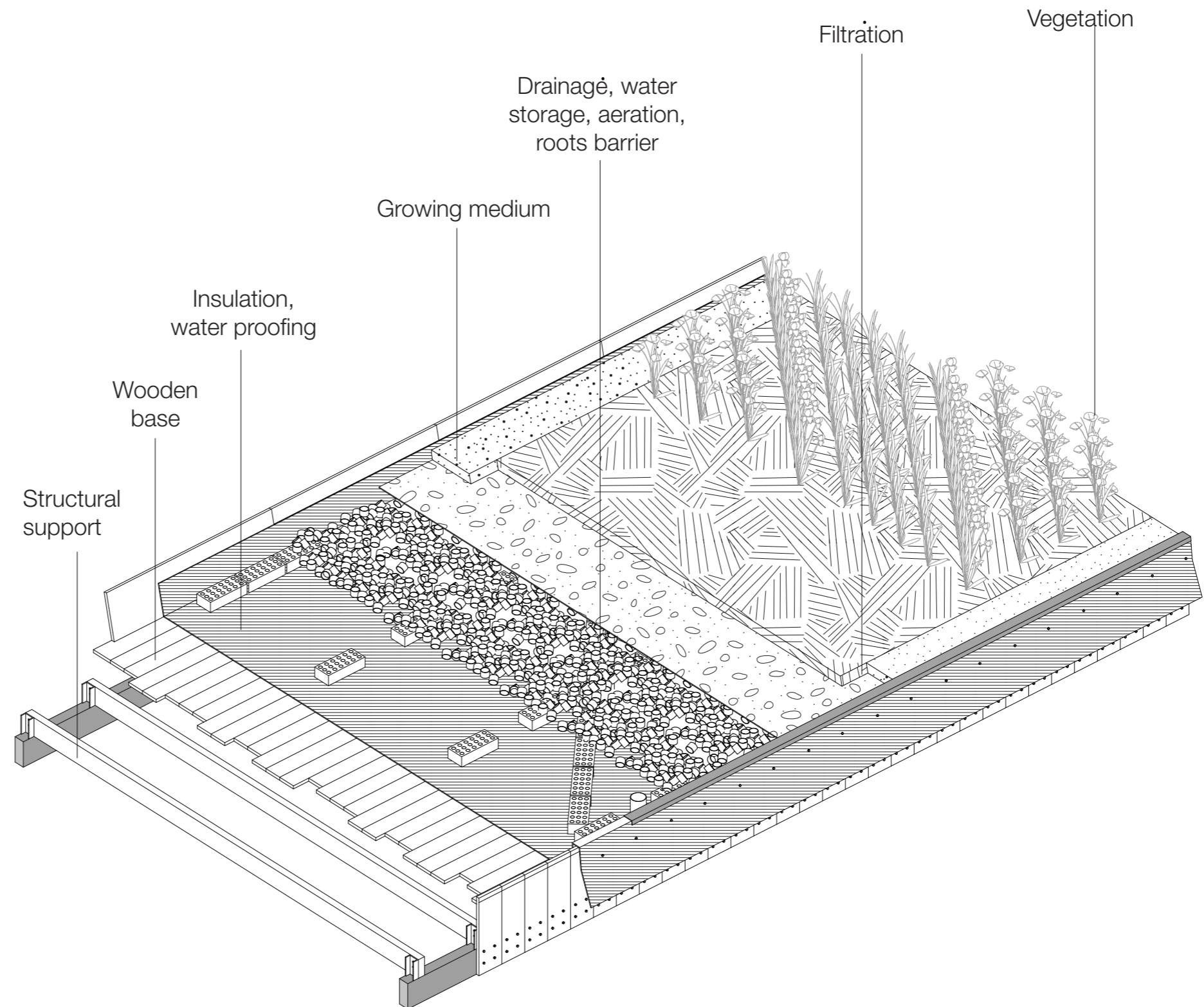
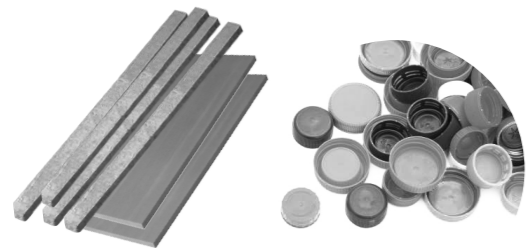


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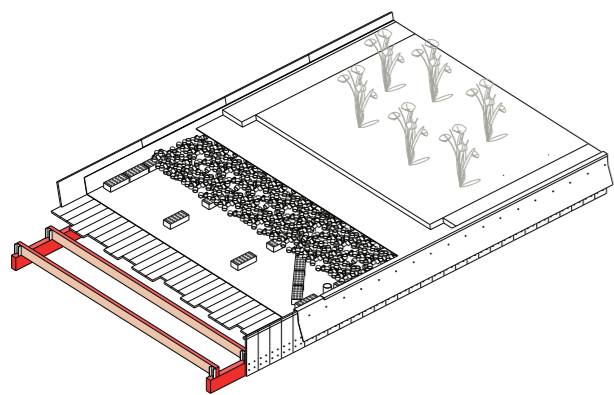
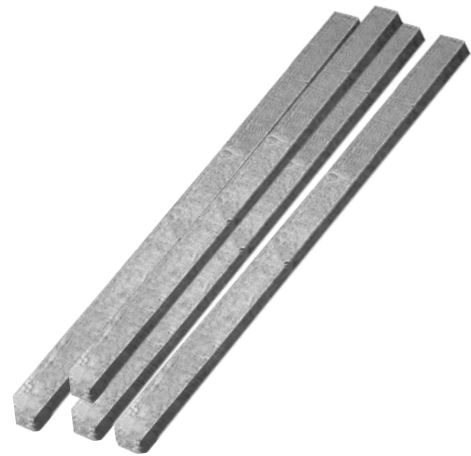
TOOLS

- WOODEN PANELS
- PLASTIC CAPS RECYCLED
- NON-WOVEN FABRIC
- BRICKS
- GROWING MEDIUM
- PLANTS
- STONES
- WATERPROOF MEMBRANE

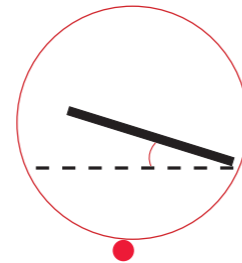


TOOLS

- WOODEN PANELS

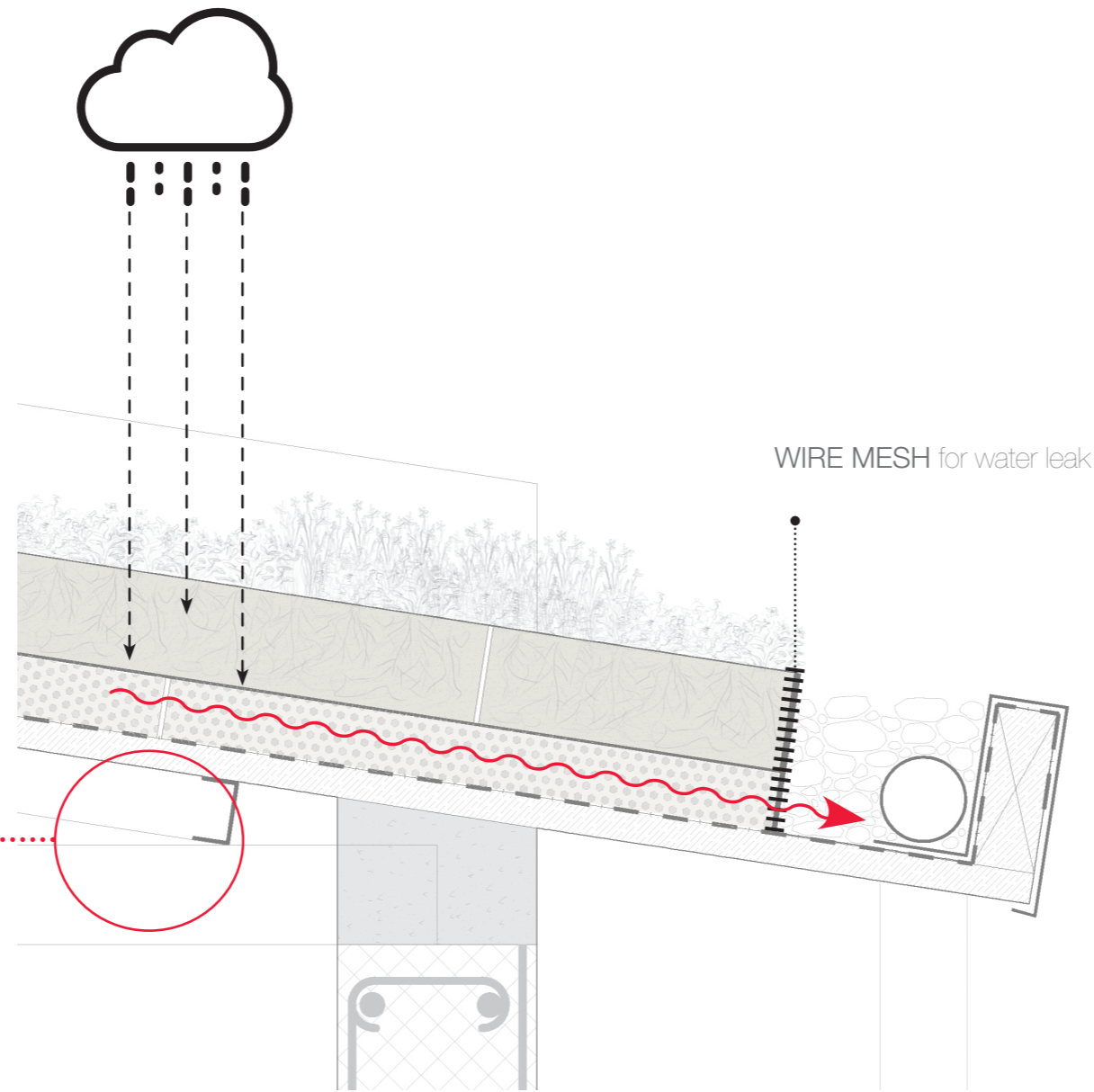


PROCESS



INCLINATION OF THE STRUCTURE

The wood structural support of the roof needs a minimum **INCLINATION** in order to eliminate the **STAGNANT WATER**.



CREATION OF THE WOODEN BASE STEP 2

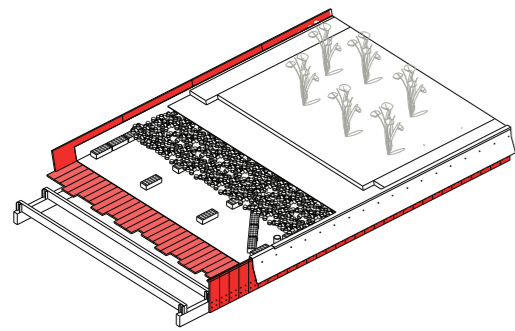
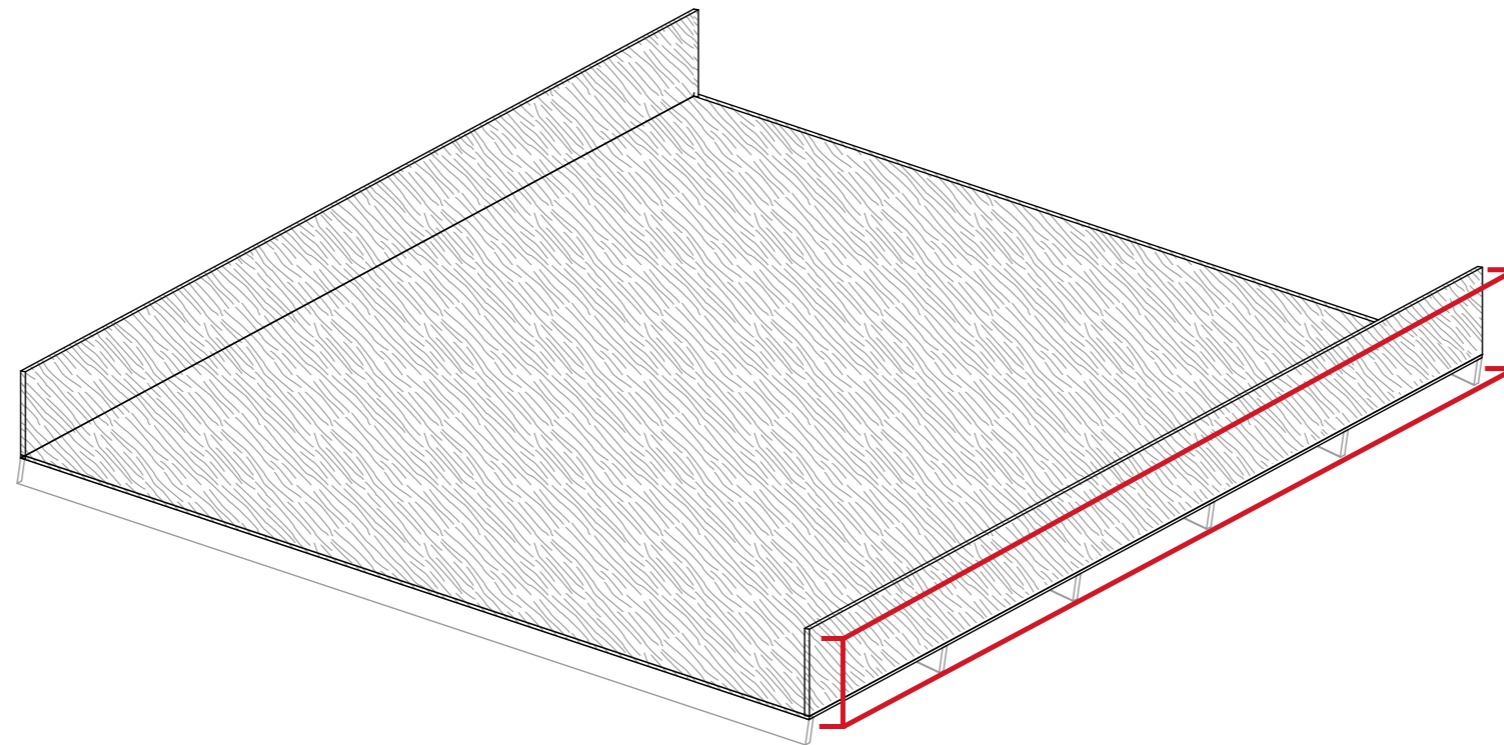
TOOLS

- WOODEN PANELS



PROCESS

WOODEN BASE 15/20 cm high used to level the roof and to contain the different layers that will be posed over it.



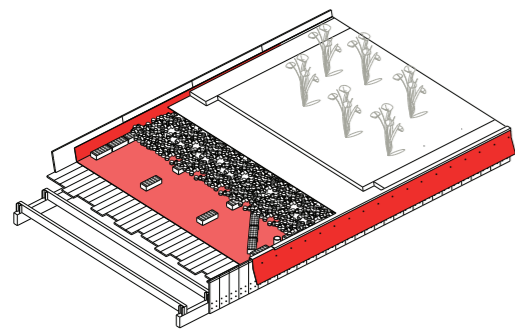
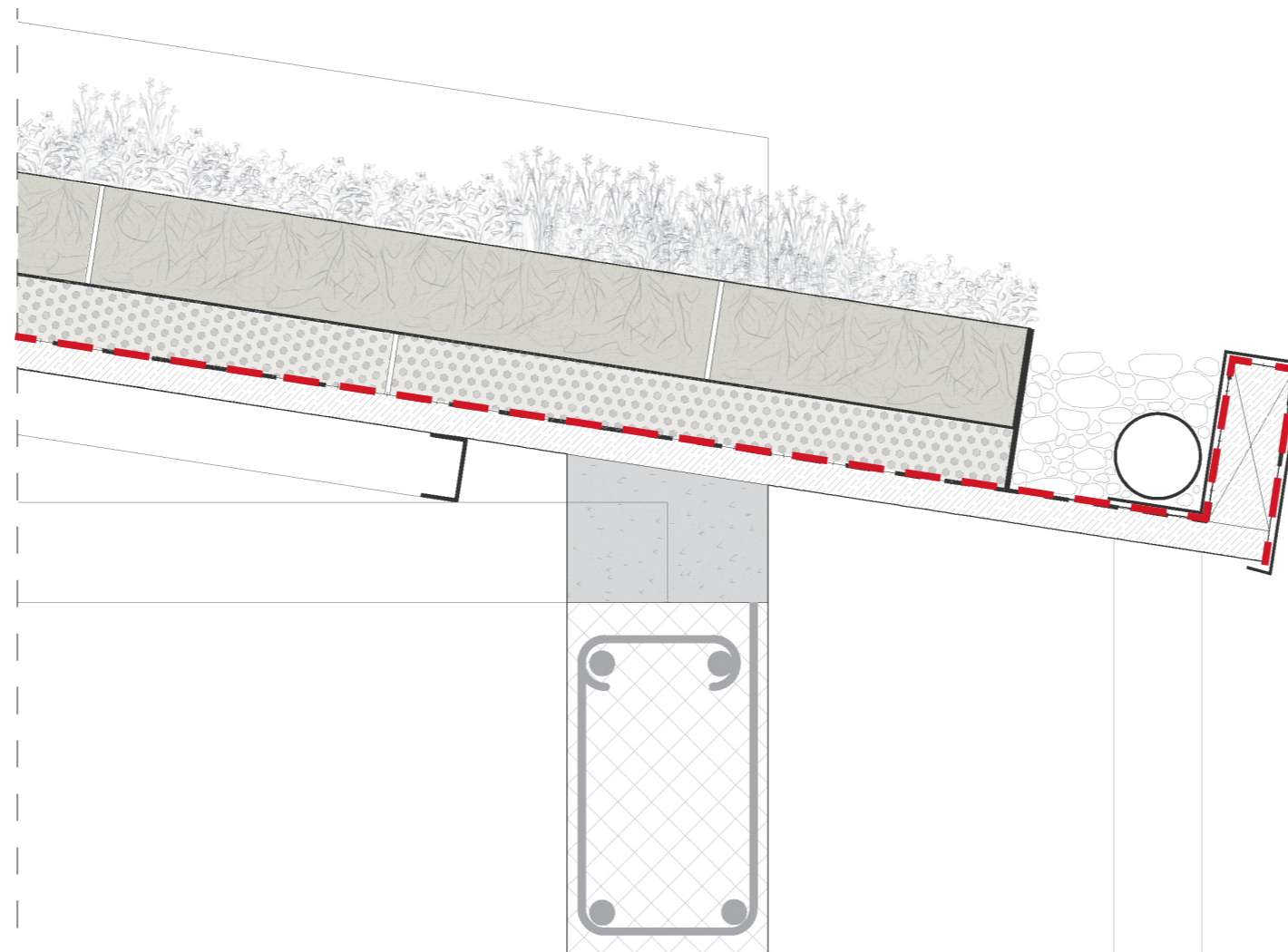
TOOLS

- WATERPROOF MEMBRANE



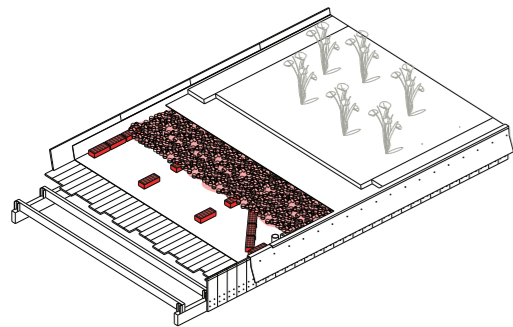
PROCESS

WATERPROOF MEMBRANE
used to protect the wooden base from the water, in order to have a more durable structure



TOOLS

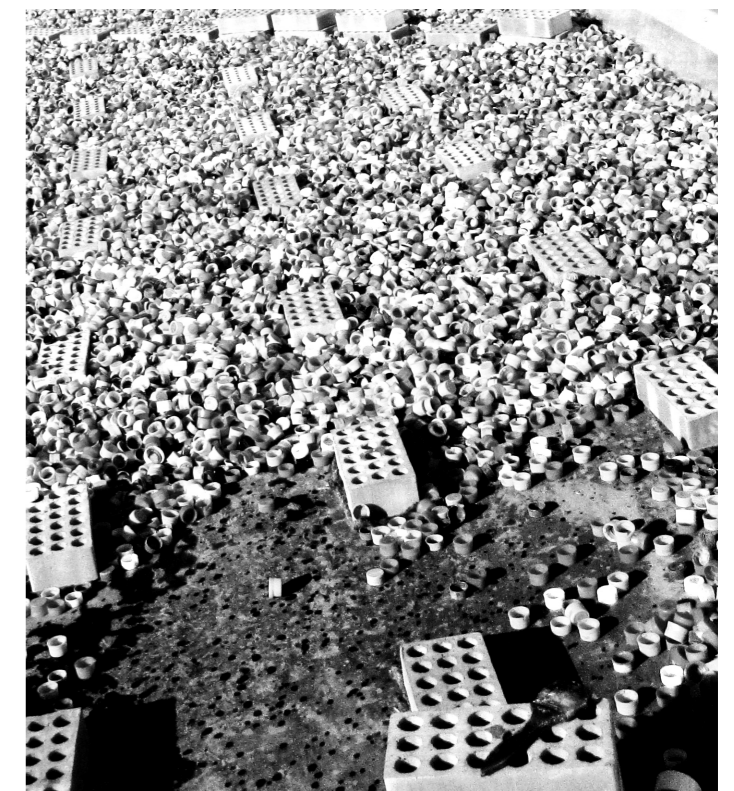
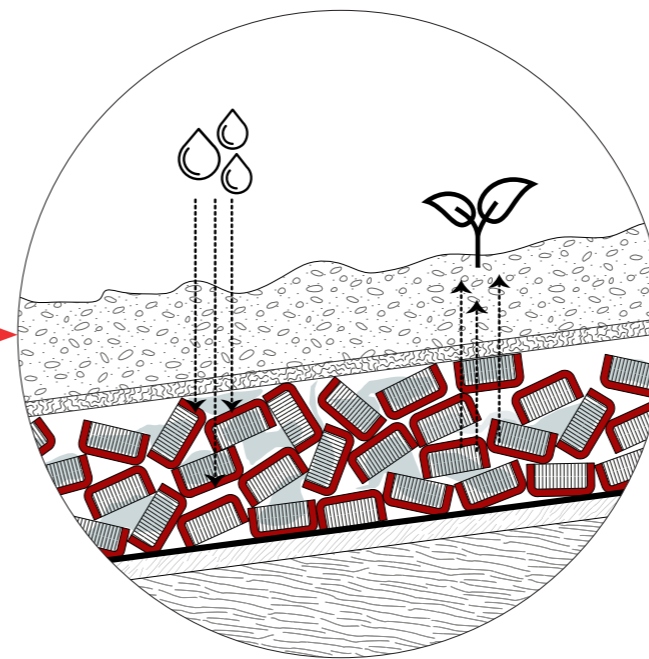
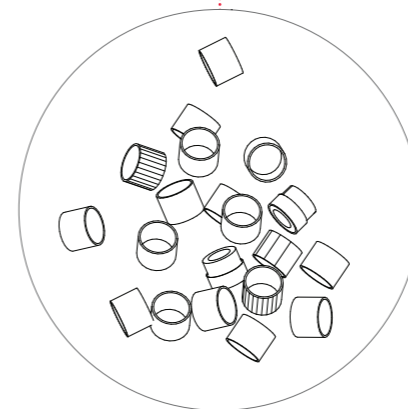
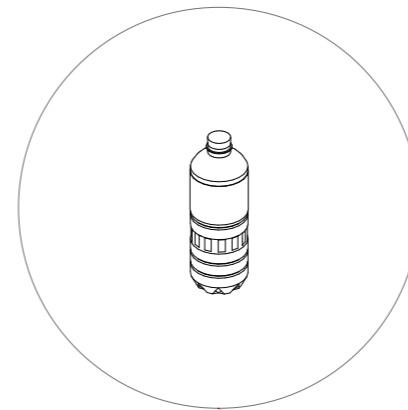
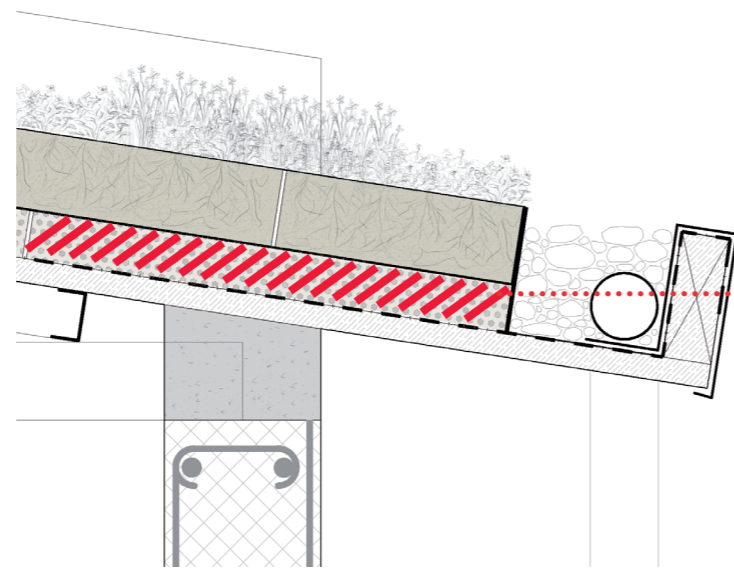
- BRICKS
- PLASTIC CAPS RECYCLED



PROCESS

Some BRICKS are posed as a base in order to fix the thickness of the cap's layer and to prevent caps from slipping.

RECYCLED PLASTIC CAPS are used as draining layer. They are posed randomly and retain a certain quantity of water that can be serviceable in case of lack of rain for plant growth.



TOOLS

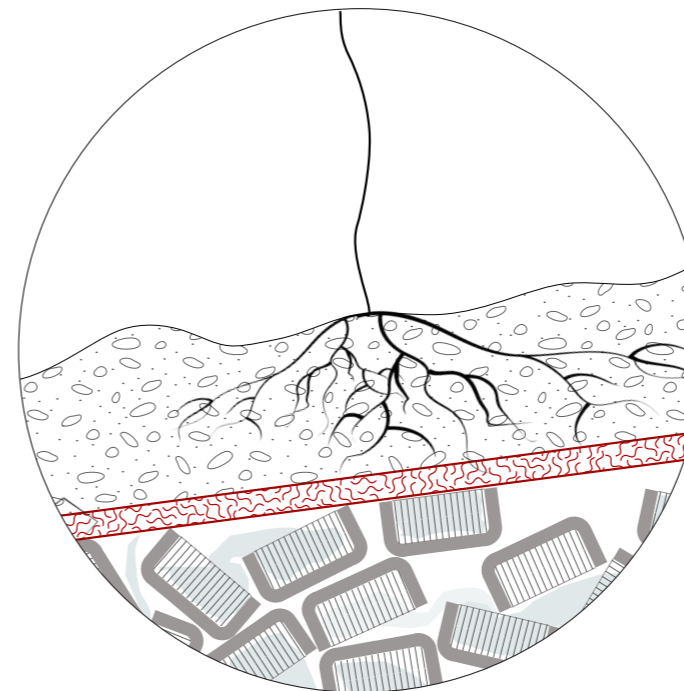
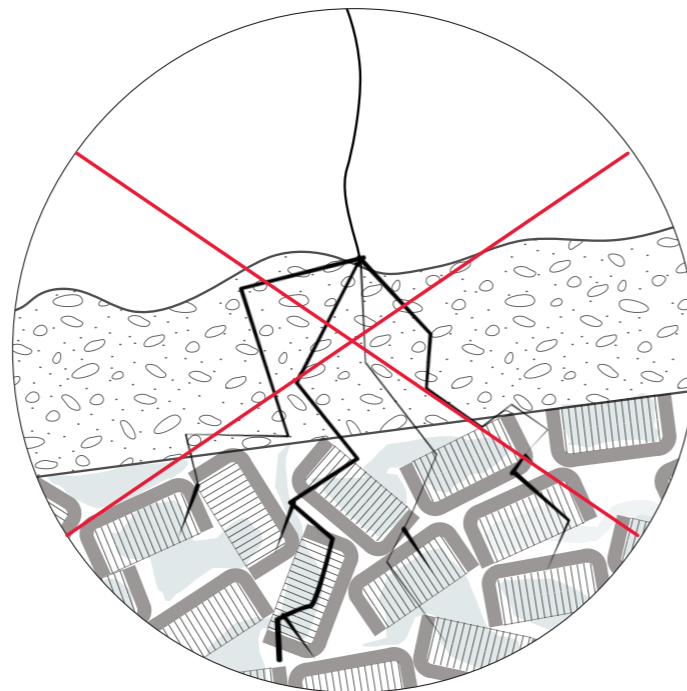
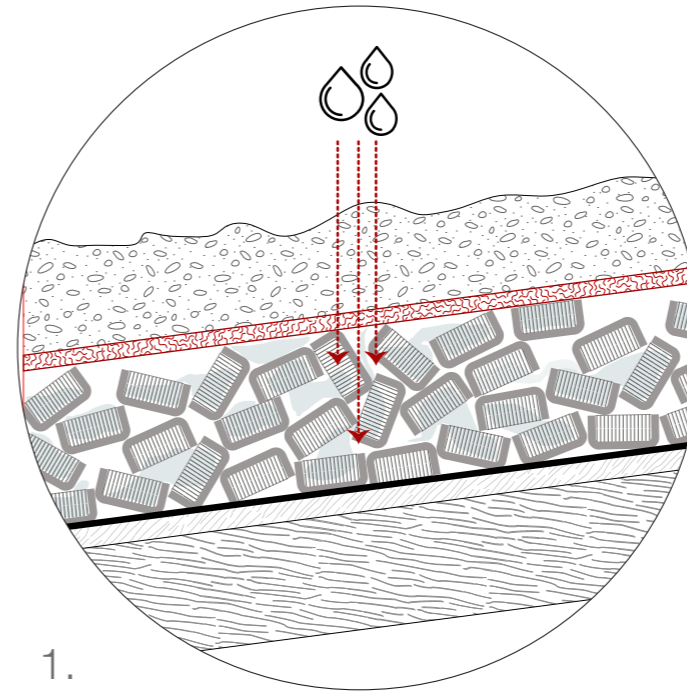
- NON-WOVEN FABRIC



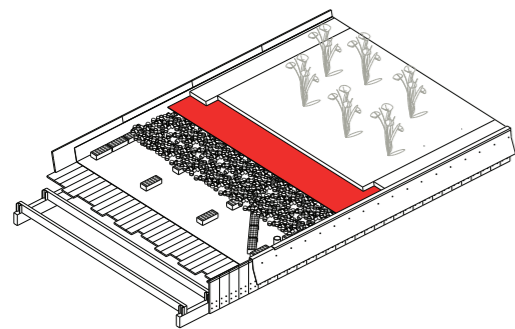
PROCESS

A NON-WOVEN FABRIC is posed to separate the caps from the earth above. It has two properties:

1. it FILTERS the rain water to reach the cap's layer;
2. is an ANTI-WAR barrier.

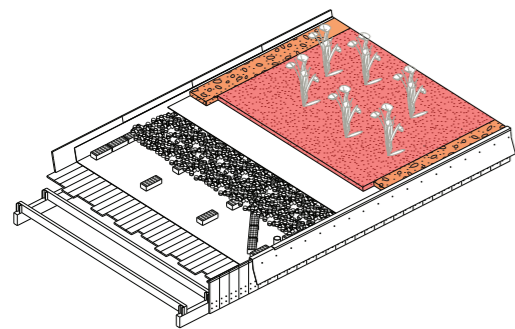


2.



TOOLS

- PLANTS
- GROWING MEDIUM
- STONES



PROCESS

1. STONES AND EARTH

Put first a strip of STONES on the higher and lower part of the inclined roof. This area will serve to collect the water in excess that will be reused. The EARTH will fill the rest of the roof homogeneously.



2. PLANTATION :

Features of the EXTENSIVE GARDEN:

- Native plants;
- Plants resistant to dryness (less water needed for irrigation);
- Plants with shallow roots;
- Dense plants for a better thermal insulation.



THE END



Project by

