











Finding

What are materials available on Lesotho? Objective: produce to create some employment and limit the import.

Traditionally the houses of Lesotho were in earth and stone. Today what our earth?

The import of element construction generic as the breezeblock puts The question of the identity.

Waste bound to the construction and the consumption causes problem.

New stratum of the ground.

Today earth means coat waste blow up. Through this example extrème and more and more frequent we realize the luck of Lesotho not to be for this level there. It is never necessary left it be made.

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PRINCIPLE OF MODULARITY

JOINTS

BENEFITS:

- + Hollow element which can contain some insulating material
- + Hollow element which can contain girdles (water, air, electricity)
- + Possibility of adding, of changing, of removing every element
- + Possibility of enlarging the house in the infinity
- + Possibility of defusing completely the house and of going back up it on another site without creation of waste
- + Low imprint on the environment with recycled foundations
- + Require only a mallet for the assembly
- + Assemblies borrowed from the implementation of skeleton wood:
- without glue, screw and iron framework
- + Less than 50 different elements to build the house

PLASTICS USED FOR THE FILLING OF THE HOLLOW ELEMENTS:

- + THE POLYSTYRENE (PS) (insulating)
- + THE LOW DENSITY POLYETHYLENE (PEBD LDPE)
- + ANY OTHER WASTE WHICH CAN NOT SERVE IN THE ROTOMOULDING

OPROCESS :

+ Assembly of the prefabricated elements

The plastic as the material !

qoals :

Recycling (Recycled, recyclable) Interpretation of the brick, Economic, history identity

brick

Flexible, reuse rather than throw Economic, produce quickly and for all

PRINCIPLE OF PREFABRICATION

LE ROTOMOLDING

BENEFITS :

- + Resist the extreme temperatures
- + Resist the shocks and the distortion
- + Resist to oxidation
- + Low cost equipment
- + Low cost raw material
- + No loss of material, recyclable 100%
- + Fast manufacturing
- + Hollow element which can be easily installed

PLASTICS USED FOR THE ROTOMOLDING :

- + THE VINYL POLYCHLORURE (PVC V)
- + THE POLYPROPYLENE (PP)
- + THE POLYAMIDE (PA)
- OPROCESS :
 - + Sorting of plastics
 - + Cleaning
 - + Crushing
 - + Coloring addition
 - + Heating in the mold
 - + Cooling
 - + Demolding

+ Possibility of realizing complex and large-sized elements

+ Tinged in the mass, no filler or the paint to be planned + Hollow element which can contain some insulating material + Hollow element which can contain girdles (water, air, electricity)

+ THE POLYETHYLENE TEREPHTALATE (PET - PETE) + THE HIGH DENSITY POLYETHYLENE (PEHD - HDPE)







JOINING BY MORTISE AND TENON JOINT

JOINING WITH MIDDLE-WOOD

 \checkmark

JOINIG LIKES THE MIDDLE-WOOD WITH DOVETAIL

JOINING BY PIN

PET - PETE water bottle

PEHD - HDPE domestic bottle

PVC - V packaging



RECYCLABLE PLASTICS

PEBD - LDPE plastic bag

punnet, tumbler

pot yogurt

PS

PP



DECOMPOSITION OF A MODULE





USEFUL



Bring a light source in the stay and keeping the intimacy of the home

living room under the dome of the roof

Frames of joinery in the lively colors

Constructive game and color between structure and facing

MEASURES



DIMENSIONS (cm)

Limit the impact of a construction with paving stone concrete on the environment

Limit the thermal exchanges between the ground and the housing environment by isolating and by disconnecting the floor







10 BLOCS

14 BLOCS

ASSEMBLY HOUSE UNIT

24 BLOCS