**Enclosure of climatized spaces**

- Lightweight mineral loam
- Andesite Stone (+concrete)
- DIY solar collector
- PET bottles + PE pipe
- Shingles cladding
- Heat treated eucalyptus
- Foundations
- Andesite Stone + concrete
- Frame structure
- Guadua bamboo

**Openings**

- Wooden frames

**Building site**

- Removed soil

**Exposed external wall**

- 10 mm Shingles (heat treated eucalyptus) 350mmx150mm
- 10/50 mm Counterbattens 150mm centre to centre
- 20/50 mm Battens 600mm centre to centre - cavity
- 1mm EPDM watertight membrane
- 10 mm Split guadua bamboo mat
- 90 mm Ventilated cavity
- 100 mm Myco Foam (Ecovative Mushroom insulation)
- 100 mm Guadua bamboo frame with lightweight mineral loam infill (with pumice stone aggregate)

**Covered external wall**

- 100 mm Guadua bamboo frame with lightweight mineral loam infill
- 100 mm Myco Foam (Ecovative Mushroom insulation)

**Internal wall**

- 100 mm Guadua bamboo frame with lightweight mineral loam infill
- 100 mm Cavity (or mycofoam infill)

**Roof**

- 10 mm Shingles (heat treated eucalyptus) 350mmx150mm
- 20/50 mm Counterbattens 150mm centre to centre
- 20/50 mm Battens 600mm centre to centre - cavity
- 1mm EPDM watertight membrane
- 20 mm Split guadua bamboo mat double layer
- 100-350 mm ventilated cavity
- 200 mm Myco Foam between bamboo roof beams
- 10 mm Split guadua bamboo mat + vapour barrier
- Woven mat finishing

**Exterior Floor**

- 25/50 mm wooden flooring planks
- 100 mm Guadua bamboo counter beams 550mm
- 100 mm Guadua bamboo secondary beams

**Interior Floor**

- 50-100 mm loam floor with hydronic pipes
- 50-100 mm Prefabricated bamboo floor element
- 10 mm Split guadua bamboo mat

**Other**

- 1 Concealed perimeter gutter EPDM
- 2 Central gutter zinc
- 3 Bamboo (treated) reinforced concrete ringbeam
- 4 Rainwater pipe
- 5 Solar collector made of PE pipe and repurposed PET bottles
- 6 Insects net
- 7 Stainless steel net parapet