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The facade of this Malaysian home is uniquely one-of-a-kind, made of salvaged clay roof tiles from the

original house, just reworked to form the walls. The design is a blend of modernity and sustainability.



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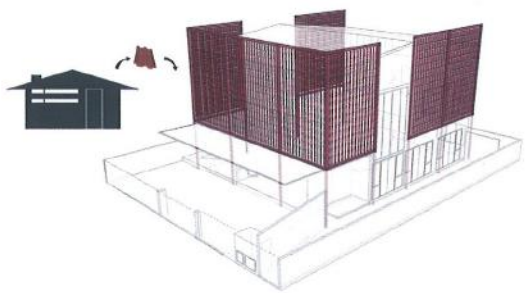
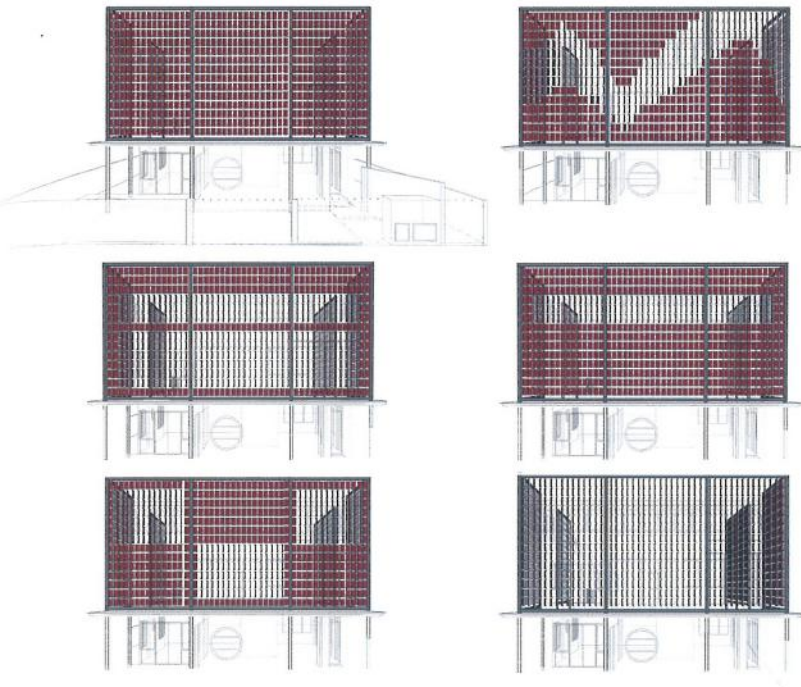


**THE CLAY ROOF HOUSE** is located on a small lot in one of the older suburbs of Petaling Jaya, Malaysia. The owners had purchased an old dilapidated house and wanted to rebuild it to serve as a new family home. It was discovered that the old house had good quality Indian clay roof tiles that were still robust. As the property faced east-west, the clay roof tiles offered a good solution to vertically screen the façade from the morning and afternoon sun.

The roof tiles were carefully removed, stored and reused. Vertical steel rods were designed to hold the clay tiles whilst allowing movement to swivel and turn. This reduces the solar gain through the house's fenestration of windows and glass doors, and lends a soft tremulous lighting effect when viewed from the outside, with internal lights switched on at night. In the sun, the terracotta glows a warm orange.

This transformed the house into an insulated and well-ventilated cube comprising volumes of spaces within a unique façade of roof tiles and lattice brickwork screens.

There is a touch of purism in the raw walls and use of building materials in its natural form, a breath of minimalism in the simple lines, unornamented motifs and open spaces. In addition to the noticeable functionality in the floor plan, there are 'green' systems and outer skins as well as the terracotta roof tile façade. **aa**



**OPERABLE RECYCLED CLAY ROOF TILE BRISE SOLEIL**

**LOCATION**  
 Petaling Jaya,  
 Selangor, Malaysia

**ARCHITECT**  
 DRTAN LM Architect

**PROJECT PRINCIPAL**  
 Dr Tan Lok Mun

**DATE OF COMPLETION**  
 December 2015

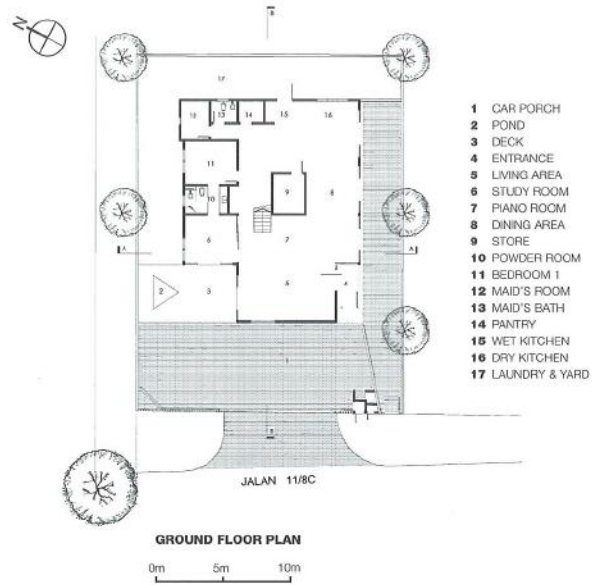
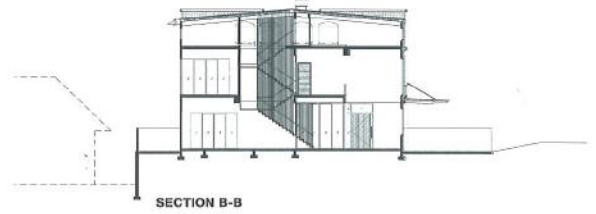
**SITE AREA**  
 517.65 sqm

**FLOOR AREA**  
 612.45 sqm

**CONSTRUCTION**  
 ELBT Builder Sdn Bhd

**CIVIL ENGINEER**  
 Perunding L&W Sdn Bhd

**PHOTOGRAPHY**  
 H.Lin Ho



- 1 CAR PORCH
- 2 POND
- 3 DECK
- 4 ENTRANCE
- 5 LIVING AREA
- 6 STUDY ROOM
- 7 PIANO ROOM
- 8 DINING AREA
- 9 STORE
- 10 POWDER ROOM
- 11 BEDROOM 1
- 12 MAID'S ROOM
- 13 MAID'S BATH
- 14 PANTRY
- 15 WET KITCHEN
- 16 DRY KITCHEN
- 17 LAUNDRY & YARD

- 1/ Brise soleil façade
- 2/ Operable recycled clay roof tile brise soleil detail
- 3/ Courtyard stack ventilation with brise soleil
- 4/ Recycled old doors enhance the space
- 5/ Dining area

