## **TS** Facade Analysis

Thermal Insulation

material: wood -thickness: 20cm

The wood column supports mainly the first floor level to 

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Koot -outer/inner layer: copper/wood -thickness: 6cm/30cm -material property: copper - provides corrosion resistence, durability in most er ronemats especially since the site is the forest in a mountain, thermal conduct 401 W/(m-K) : The insulation layer keeps the building warm. Wall : The exterior wall of the house is constructed with timber cladding. Cladding panels may be factory pre-fabricated complete with insulation 401 W/(M·K) wood-wood is not as durable as concrete slab or shingles and very difficult vertex thus the wood is used as inner layer and copper is used as the outer layer where no 1st Ground Level Floor -material: concrete+wood -thickness:50cm X X X X X Х Ø) Window -material: steel+glass; double glazed window -material property: thermal value: 1.5W/m^2.K -function: One benefit of a steel window is that it is very strong and durable enough Exterior Wall material: wood -function: there are several v rtical fixing -function: there are several vertical hxing elements as well as the insulation within the exterior wall to keep the house warper, however since the house has a high pro-and the larger facade is built with glass, the insulation of the house is weak, thus mostly work to be based on the several Base Floor used as a summer house. -thickness: 0.4m terial: cor hinti -material porperty: Density : 2240 - 2400 kg/m3 (140 - 150 lb/f3) -material porperty: Density : 2240 - 2400 kg/m3 (140 - 150 lb/f3) Compressive strength : 20 - 40 MPa (3000 - 6000 ps) -function: tough and resilient characteristic of concrete benefits for long-lasting. mmmmm لمتعلقا لنتلتنا

The primary design feature of the house is the 2 inner columns, which is about 5 meters high. Each wooden columns are positioned symmetrically, and its structure is simplification of the structure of the tress around the house. Following the slanted branch structure of the column, the wooden roof configures the overall structure of the house.

Shinohara made sure not to give meaning to any particular structural or architectural form; as he states in in collection of highlighted works "pillars only the functions of pillars, walls those of walls, and mould that of mould. This further exemplifies the natural ground in the summer room, considering it's the only surface not of 45 degree or 90 degree orientation to the rest of the structure and is the only material for the interior seemingly untouched by the inhabitnant.



