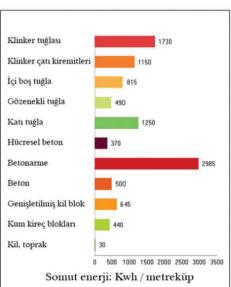


[from the last report of IPCC] intergovernmental panel on climate change

'The urban built environment is responsible for 75% of annual global GHG [green house gases] emissions: Buildings alone account for 39%."

'Considering that 39% of global energy is allocated to buildings and 8% of alobal emissions are due to cement alone, it is seen that the architectural community has an important role in tackling the biggest crisis of our time.



the amount of energy consumed during the production of building materials

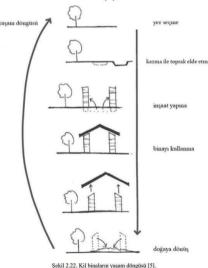
THE AIM IS TO DECARBONIZE THE BUILT ENVIRONMENT

what we can do?



soil-stone-wood-clay-adobe-mudfibrous plants-earth bag

if we use this materials-in sitewhat happens?



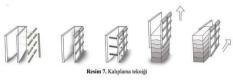
life cycle of clay buildings

at the end of its life. they will disintegrate and become reabsorbed into the ground

RAMMED EARTH CONSTRUCTION PHASE



Resim 4. Toprağın Alt Katmanlardan Alınması, Elenmesi ve Kurumaya Bırakılı



Witklipfontein Eco Lodge

South Africa



sim 8. Karışıma Katkıların Eklenmesi ve Kalıba Alınma Süreci







Resim 21. BKM Köyceğiz Plato



Resim 12. Yalıtım Kullanımı

Consisting of two parallel plywood panels, the frame is then filled in with a layer of damp earth, which typically includes sand, gravel, clay, and a stabilizer. After this small layer is added, it is compressed into around half its original volume using a **pneumatic tamper**. This process is repeated iteratively until the frame is filled with compacted earth, allowing the wood to be removed and a free-standing rammed earth wall to remain.

POTENTIALS & LIMITS

sustainable+ -thich n heavy low co2 walls emission+ -water sensitivity 0 energy -needs additional consumption elements for+ resist lateral trasnportation loads

low cost+

easy to build. SOLUTIONS no need for ?To avoid from qualified ppl+ the ground water, aesthetic it should rise on appearance+ the concrete or good thermal stone foundation insulation+ ? The walls can be good sound protected insulation+ the rain by an fire resistance+ overhanging roof cheap+ ?Layers



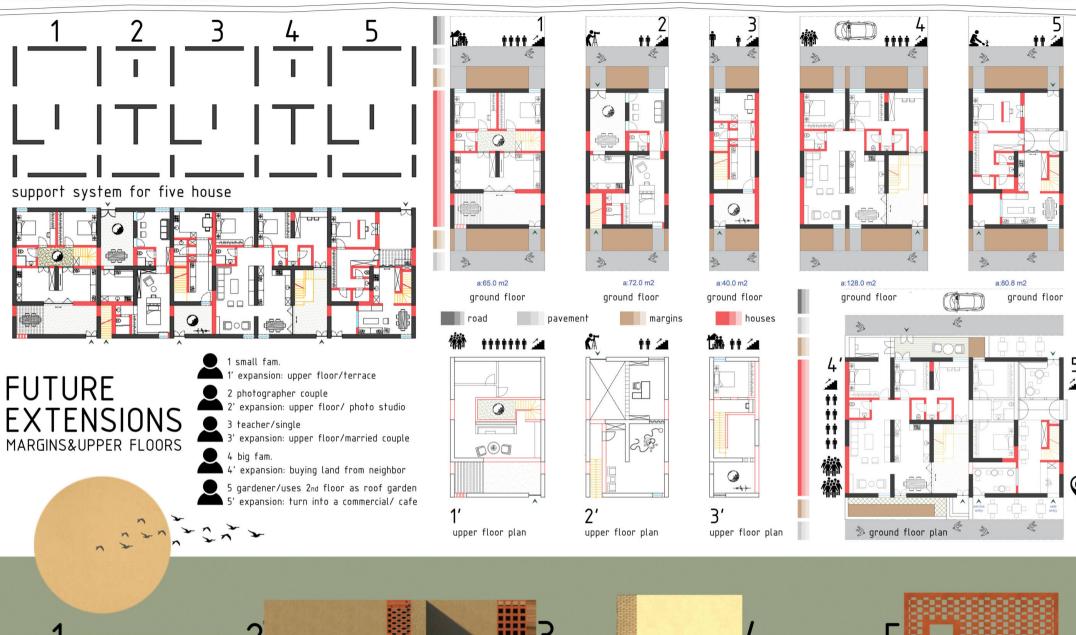
?Gypsum and lime structural support can be added to? Natural the mix to increase waterproof resistance of the applied compacted soil

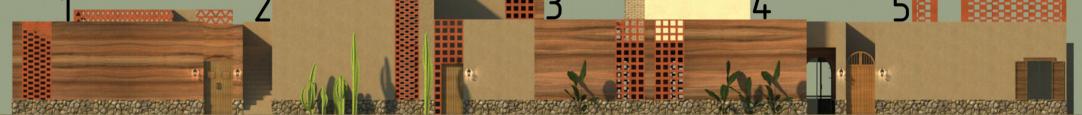
fibreglass mesh can be added the between of layers compacted earth to help providing

water plaster can wet in areas



FATİH SULTAN MEHMET VAKIF UNIVERSITY 2021/2022 SPRING SEMESTER MIM19301E



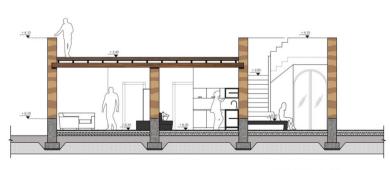


FATİH SULTAN MEHMET VAKIF UNIVERSITY 2021/2022 SPRING SEMESTER MIM19301E



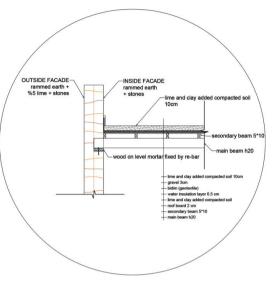


GROUND FLOOR PLAN

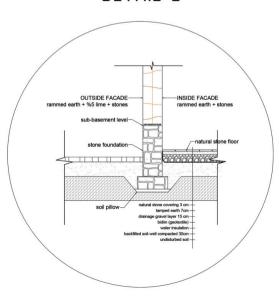


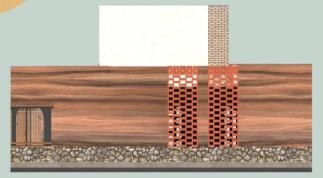
SECTION



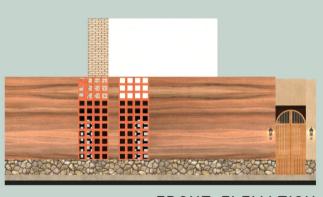


DETAIL 2



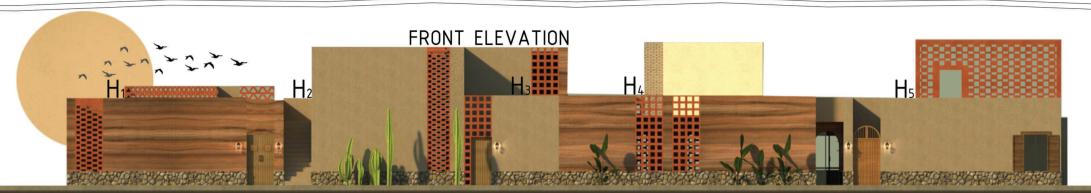


BACK ELEVATION



FRONT ELEVATION



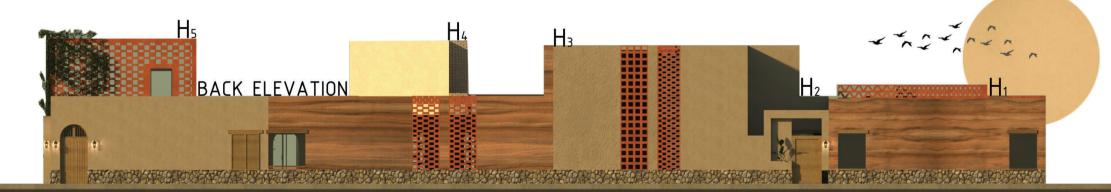














1. MASJID

2. COMMON SQUARE /COMMERCIAL BUILD.

MIM19301E

- 3. SCHOOL AREA & PLAYGROUND
- 4. FINISHED BUILDINGS
- 5. UNFINISHED PART /SUPPORT WALLS
- 6. FARMS



SOCIAL HOUSING IN SYRIA COORDINATOR: JAMEL AKBAR BEYZANUR ŞANLI / Ç1625241001