

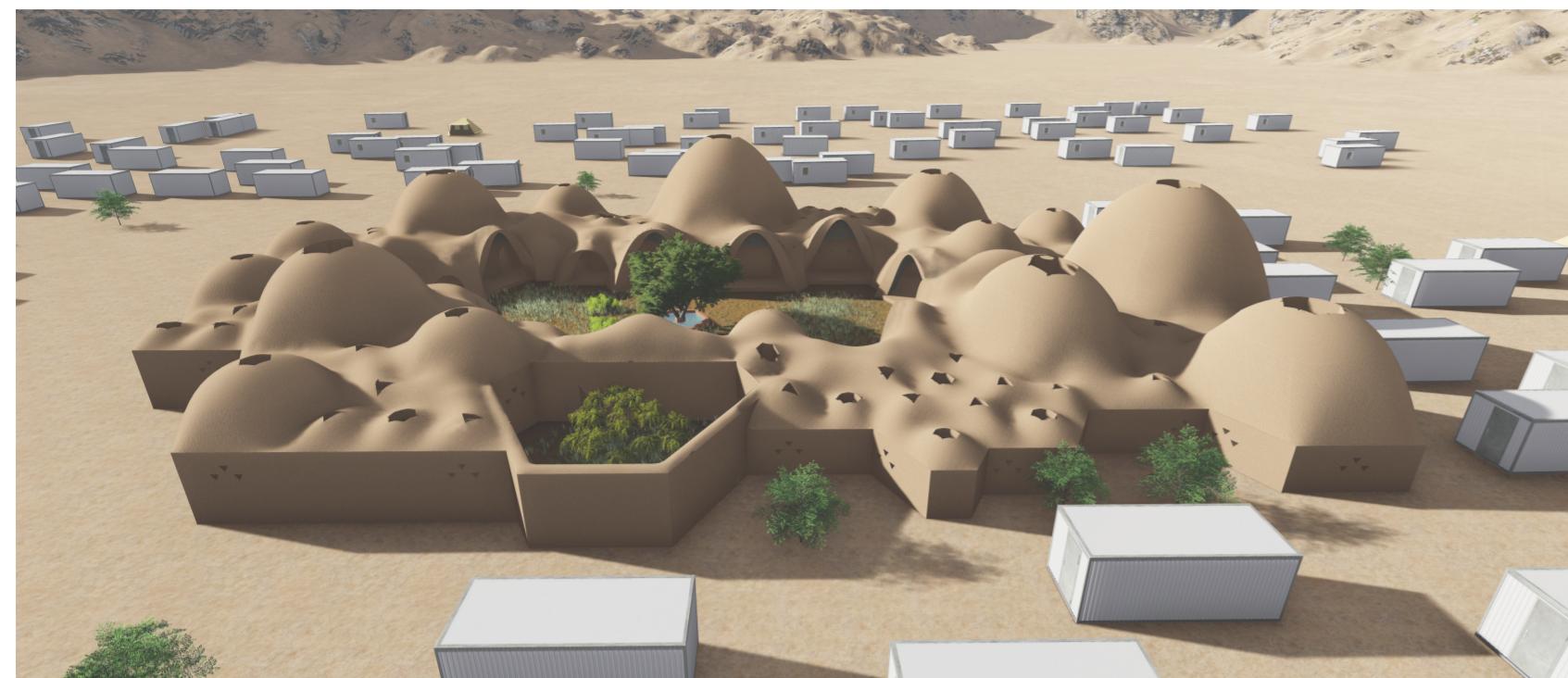
JANNAT AL-TOHR

A RETREAT FROM EVERYDAY LIFE

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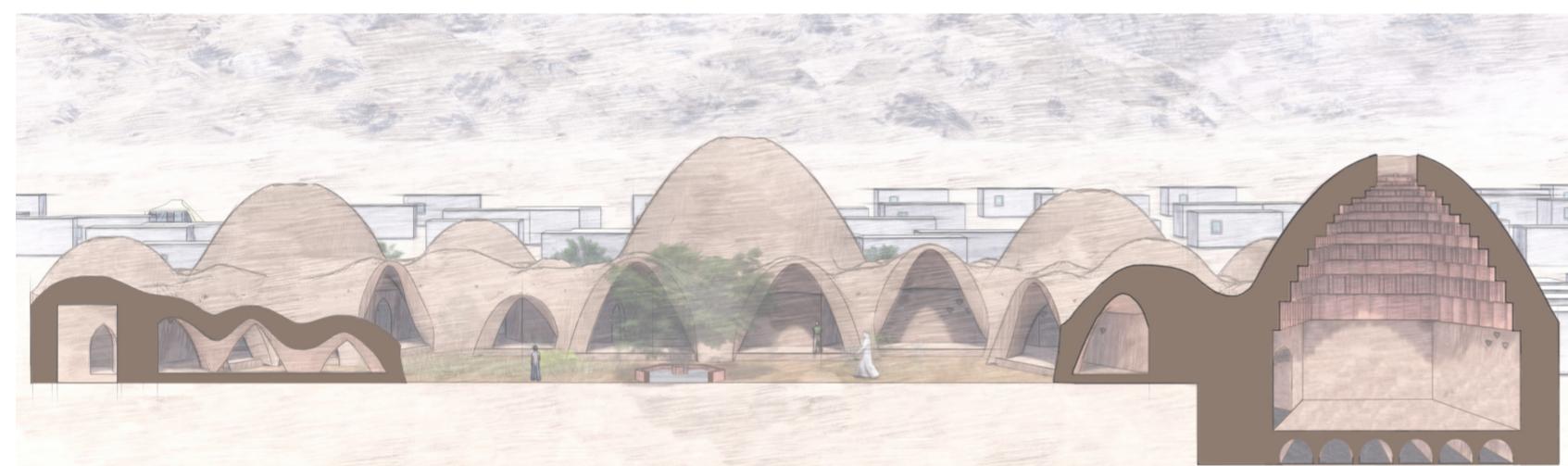
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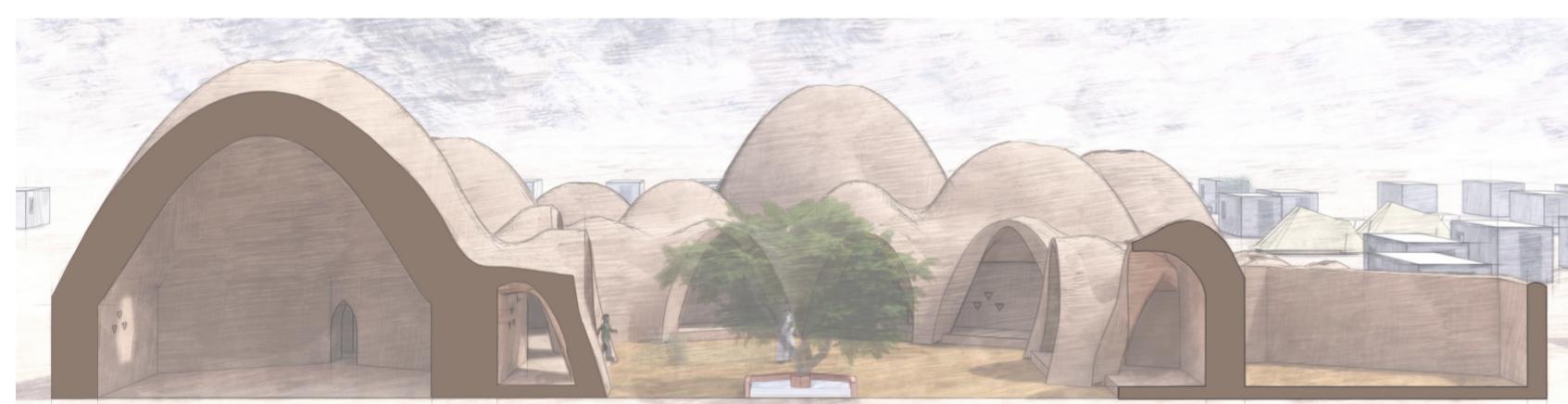
Birdeye view



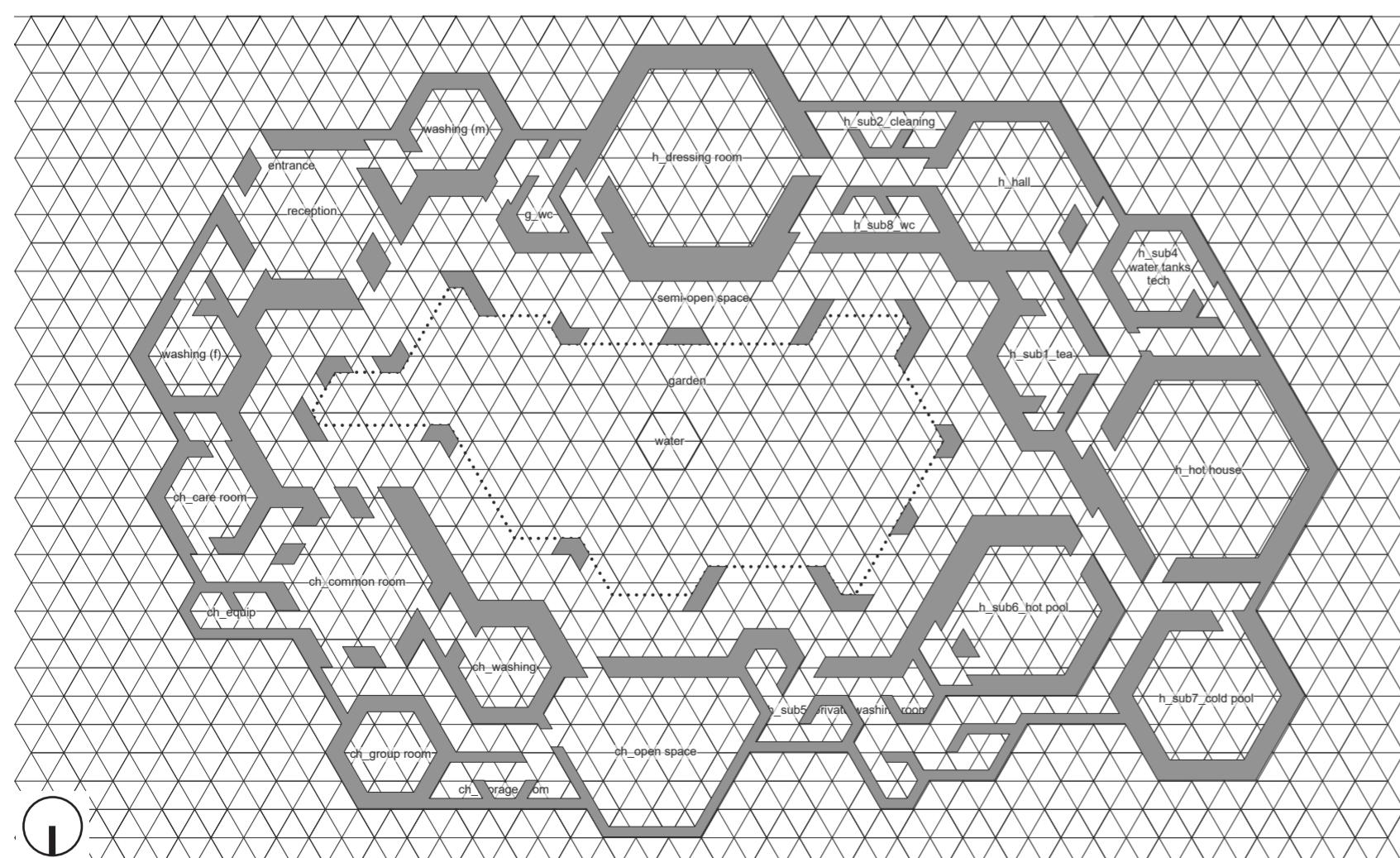
courtyard gardenw view



longitudinal section



cross section



floor plan



site plan

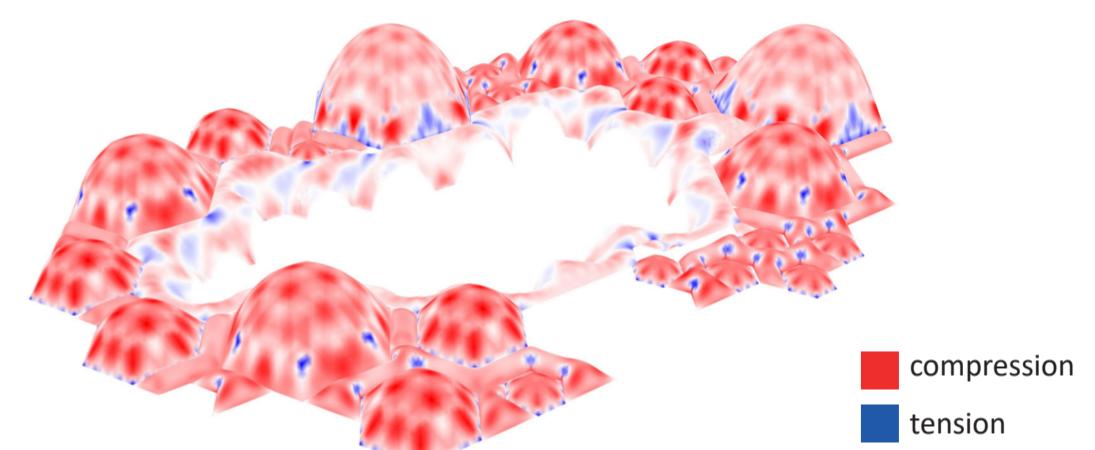
Located in the north of Jordan the Zaatri camp houses over 80.000 Syrian refugees for an undetermined period of time.

The main idea behind this project was to give the inhabitants of Zaatri a temporary retrieve from their daily lives in the camp. Hammams are a big part of islamic culture, they serve as a place of relaxation and purification. By introducing hammams into the camp we want to give the inhabitants back something they lost during the war.

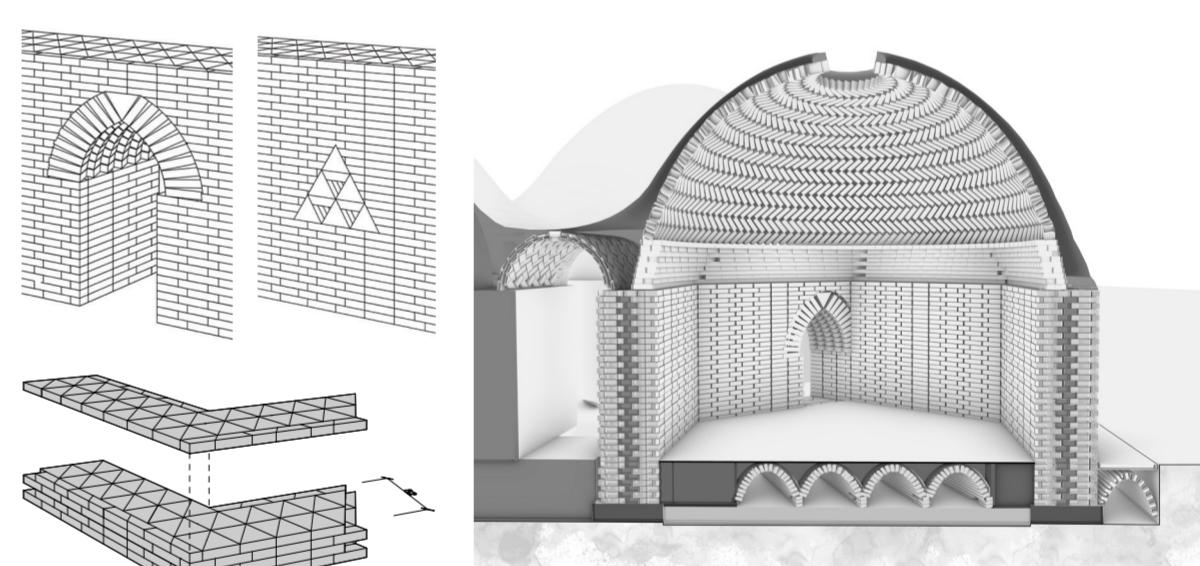
During the design process of the project the emphasis was placed on the use of the computational approach, as we set out to designing a methodology of designing a hammam that could be used in other locations not just for this camp. This made it so that the construction will not be the easiest thing to realize, with the large spans and the irregular shapes we are trying to push the limits of what one can build with adobe.

Chosen Mixture		Material properties used in structural calculations [Mpa]	
clay	30%	Youngs modulus	7,6
fine sand	30%	maximum compressive strength	1,88
coarse sand	40%	maximum compressive strength after safety factor	1,27
water (weight of the total mix)	10%	maximum tensile strenght	0,254

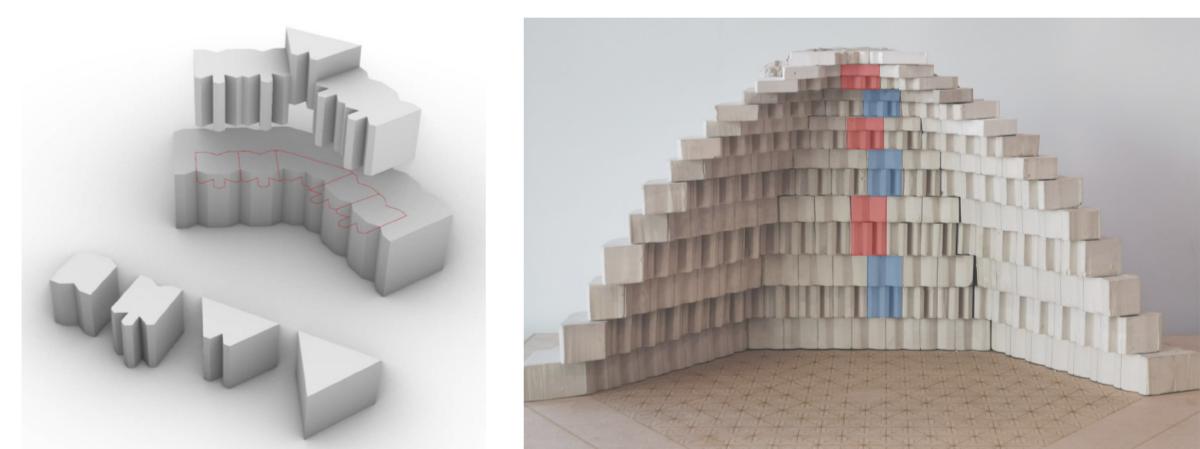
material properties



karamba analysis of ceilings



construction method



This image shows a detailed view of a decorative architectural element, likely a screen or panel, made from a light-colored material such as wood or stone. The design is characterized by a repeating, interlocking pattern of jagged, geometric shapes that create a sense of depth and texture. The blocks are arranged in a staggered, overlapping manner, forming a series of horizontal bands. The lighting highlights the edges and the recesses between the blocks, emphasizing their three-dimensional form. The overall aesthetic is organic and geometric, with a focus on the intricate details of the construction.

mugarnas elements and dome