

Kaira Loro Architecture Competition

Women's House

Instructions:

Format: A4

Language: English

File: PDF

Rename the file as required by the announcement, ex: A4_TeamID

Save in PFD format and send us your report.

The use of images into this report is not allowed.

Fill out this report to comply with the announcement guidelines.

Below is the part of the report to be filled in:

ID TEAM: SOFIA SUAREZ- RNIN SALAH - KATHERINE VEGA

NAME OF THE PROJECT: BE-EQUAL

1. DESIGN

Describe your project idea and your architecture.

(Length of text allowed: 4,000 characters maximum, spaces excluded)

The project is located in Senegal, its purpose is to create a house for women, to promote gender equality. The structure is committed to a diversity of activities focusing on education, raising awareness, and developing the village with impartiality. The design idea is dedicated to the equality of women and desire to provide them an important role with activities to be productive in their society. Moreover, to find comfort and identity in this environment. The building is flexible so it can resolve different need in terms of indoor and outdoor spatial necessity. The shape of the project is inspired by the bee panel due to the great performance of this community and its equality between female and male. It gives an importance to the female in the team, and even considers it as the leader of the community. The form of the building itself offers a tranquil harmonic invite and an extended stay through flexible spaces. Looping in the program, indoor and outdoor activities are offered, the heart of the building is located in the central space, where a flexible program is proposed thanks to the creation of removable panels that are calculated to fit around the area providing the opportunity to create exhibitions, markets, meeting point anything that might be needed. A semi-open reading corner is proposed in order to expand knowledge, as well as indoor classrooms and a workshop where art crafts and conferences can be held. The project's versability is run by the concept to transform itself, is can be adjusted to any situation and place. The proposal adjusts in an economic and sustainable way, in order to serve the local people to build comfortable spaces, based on their culture and traditional art crafts, providing the opportunity for women to work in the village, and also creating spaces where they can share a community life.

Our definition of Bee-qual is connected with the importance of women itself by bringing equality inside a community. Giving a reason for the creation of a building that will reinforce our concept and become an icon in Senegal embodying a vision of progress in women to BEE-QUAL.

2. MATERIALS

Describe the materials you use, why and their potential.

(Length of text allowed: 1,000 characters maximum, spaces excluded)

The project will implement as many local products as possible; the purpose of this construction is so that the Women's house can be built by local women. The materials used will be bamboo, straw, bricks, red clay, break tiles, fabrics, and tires. Bamboo is a material that is readily available, inexpensive, and weather resistant; therefore, the structure will be light but strong. Brick is an inexpensive material that will add stability to the structure. Also, the design will blend in with the surroundings by using local design alternatives such as coating the bricks with red clay. The use of fabrics is an important factor in the project as the fabrics are made and designed by the women of the community and can be changed in the panels, making the Women's house will become an exhibition of the community's skills. The purpose of the project is to give flexibility to the places, so the furniture in the central room is made of recycled tires, wrapped with locally made fabrics and can be used in different rooms depending on the needs of the users of the place.

3. CONSTRUCTION

Describe the construction or assembly process of the project.

(Length of text allowed: 1,000 characters maximum, spaces excluded)

Due to climatic conditions, ventilation is one of the most important factors in construction. The project is based on the idea that the wind favors the ventilation of the rooms. For this purpose, the walls are provided with perforations that facilitate the air flow in the closed rooms, the panels can be opened so that the air flow is constant. The walls are not connected to the roof structure, so it is easier to extract the warm air. The roof has a slope to facilitate the collection of rainwater that can be used for services within the project. The panels have a main and a secondary structure; the first is fixed and supports the cover of the central space, while the second is a bamboo frame to which the fabrics can be attached. As they need to be flexible, the connections between the frames are made with ropes, thus providing the necessary stability.

4. ESTIMATE OF MATERIAL COSTS

(Use this example table or modify it according to your needs)

Material	Quantity	Total Costs
Clay Brick	10127.35	3038.205
Cement 32.5	35.30 ton	4236
Bamboo Vulgaris	100	380
River sand	30.00 m3	70
Fabric	56.90m2	85.35
Red clay	11	935
Straw	to cover (92.00m2)	46
Bamboo Vulgaris	95.7	363.65

Sheet metal corrugated	384	1843.2
TIRES	25	0
BROKEN TILES	92.00m2	0
Local bamboo fence	174.65	232.86
Barn Door (Wood)	4	1580
Accordion door (For Toilet)	3	105
TOTAL 12915.265		

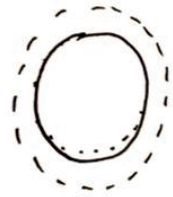


BEE-QUAL WOMEN'S HOUSE

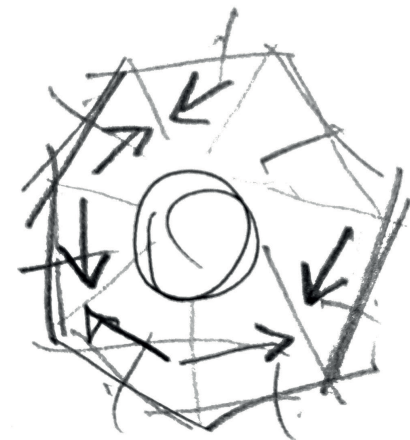
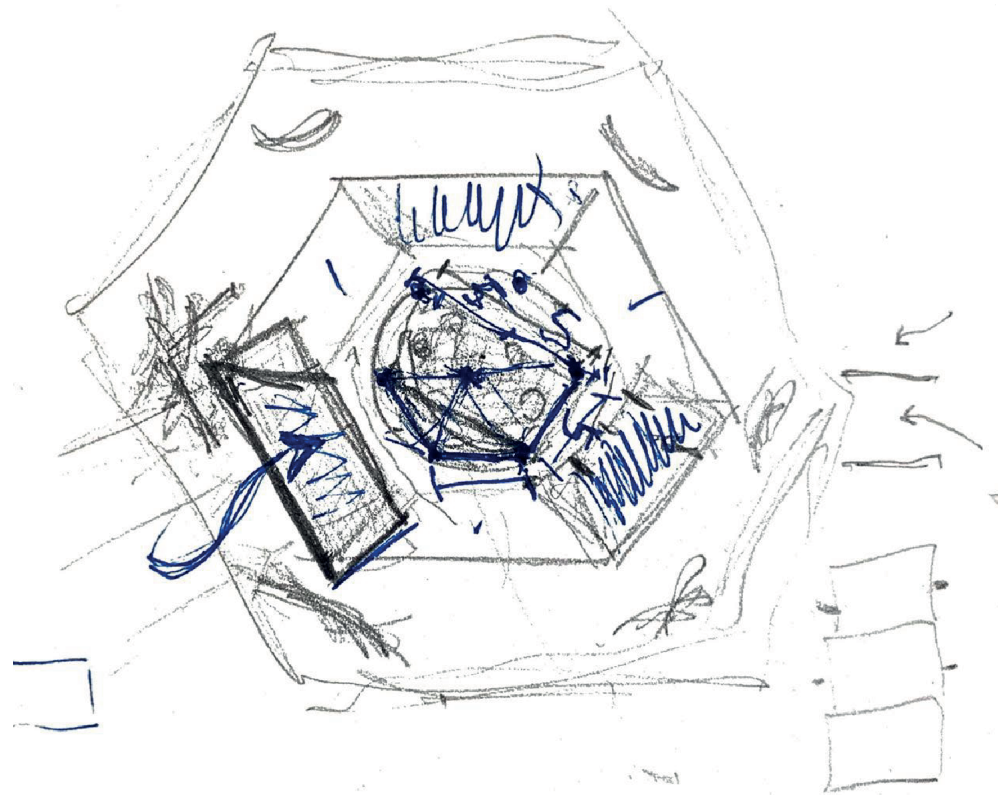
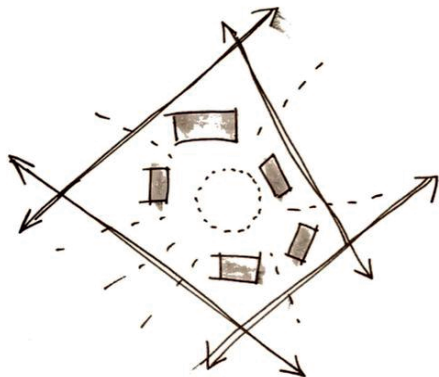
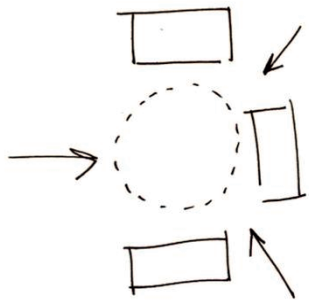
The project is located in Senegal, its purpose is to create a house for women to promote the equality. The structure is dedicated to diversity activities focusing on education, raising awareness, and developing the village with impartiality.

The design idea is stimulated in the equality of women and desire to provide them multiple activities to be active. The project's versatility is run by the idea to transform itself, it has the ability to adapt to any situation and place. The building is flexible so it can resolve different need in terms of indoor and outdoor spatial necessity. The shape of the project is inspired by the bee panel due to the great performance of this community, giving a great importance to the female. The proposal adjusts in an economic and sustainable way, in order to serve the local people to build comfortable spaces, based on their culture and traditions art crafts, providing the opportunity of work for women in the village, and also creating spaces where they can share a community life.

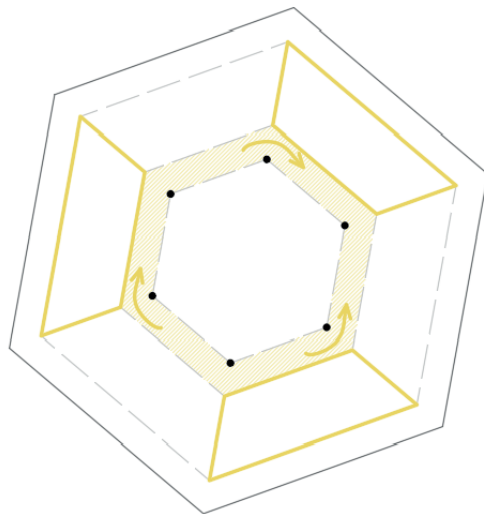
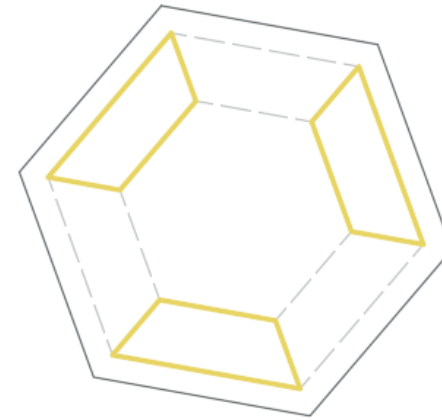
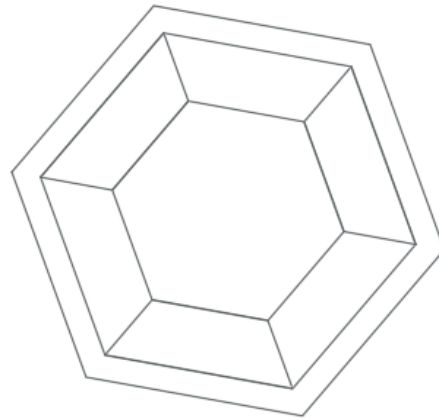
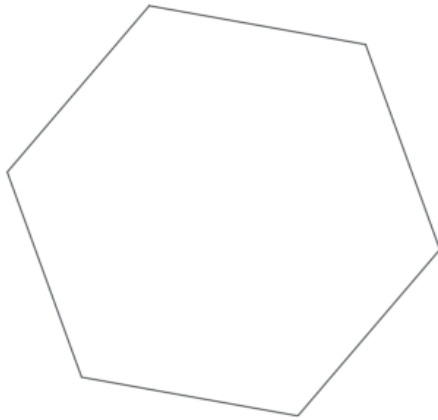
FIRST DRAFTS



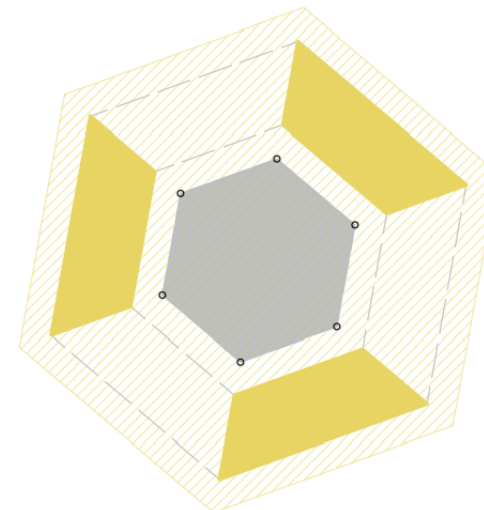
Central
Area



SHAPE

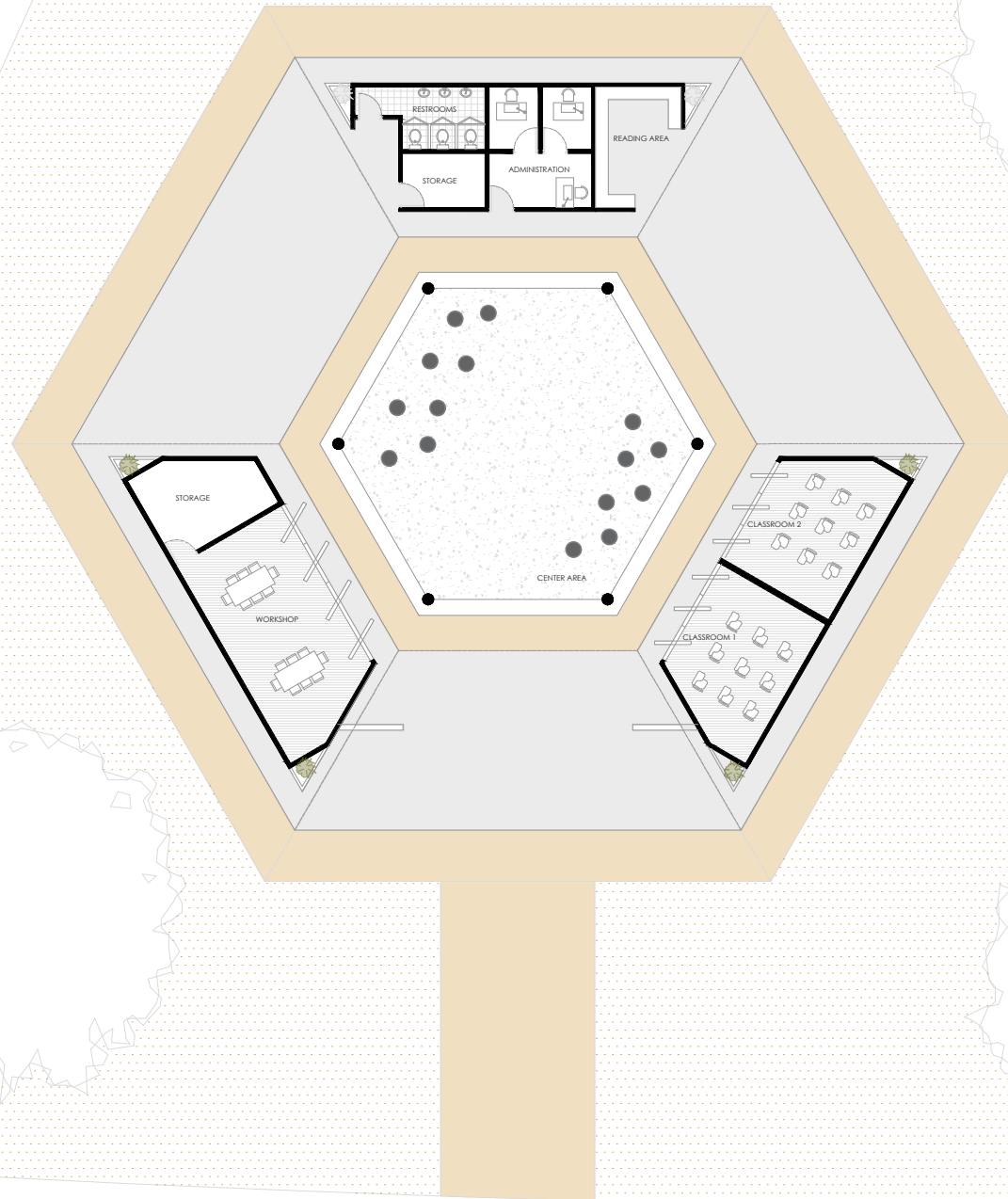


 CIRCULATION



 ROOF
 VOLUMES
 CENTRAL SPACE

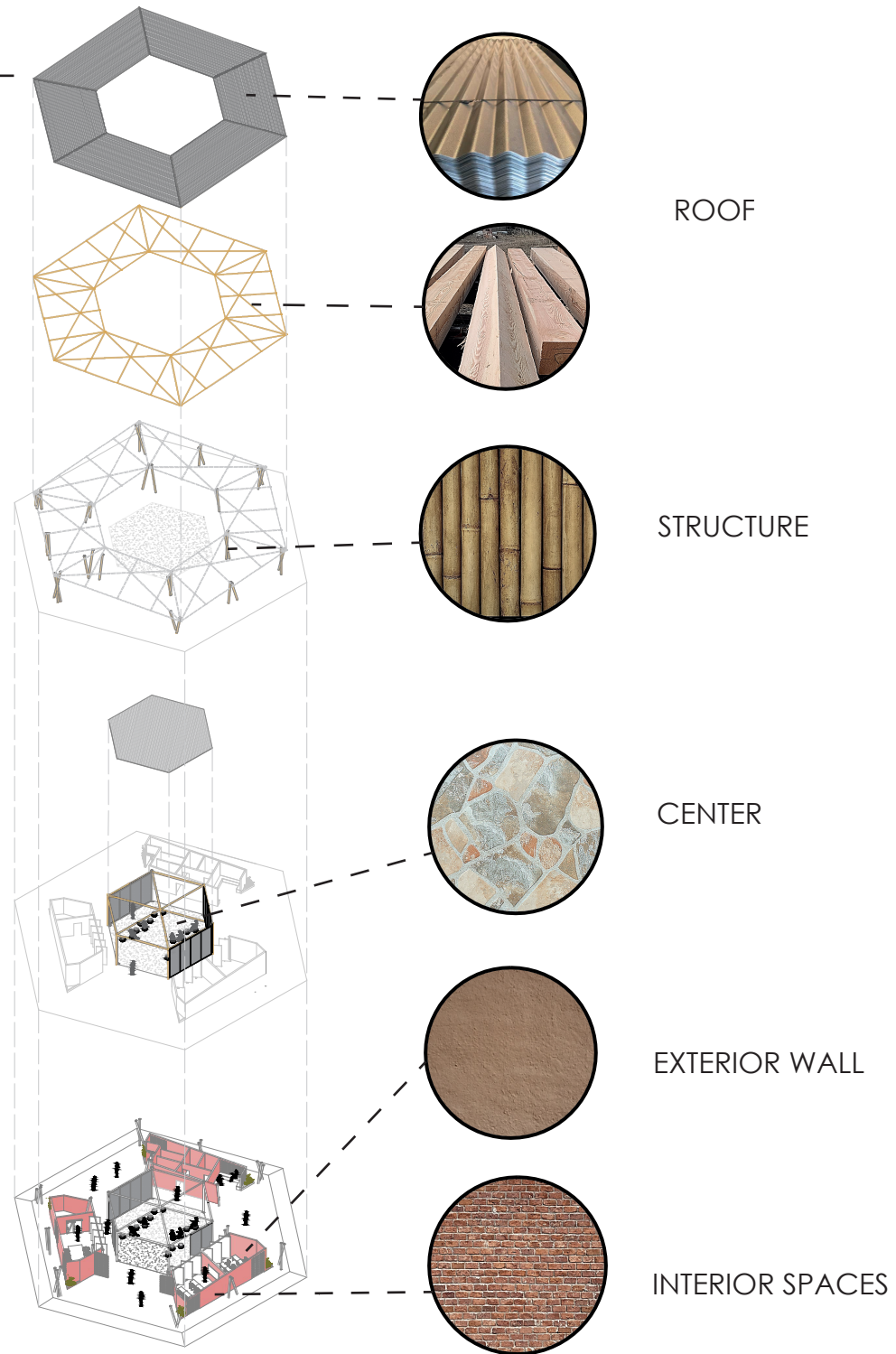
PLAN



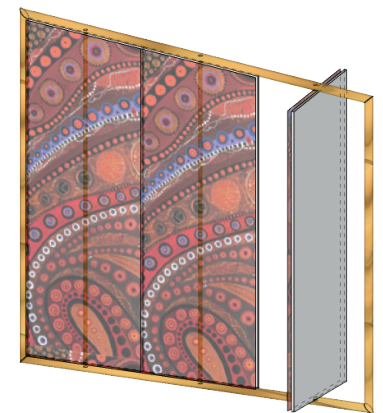
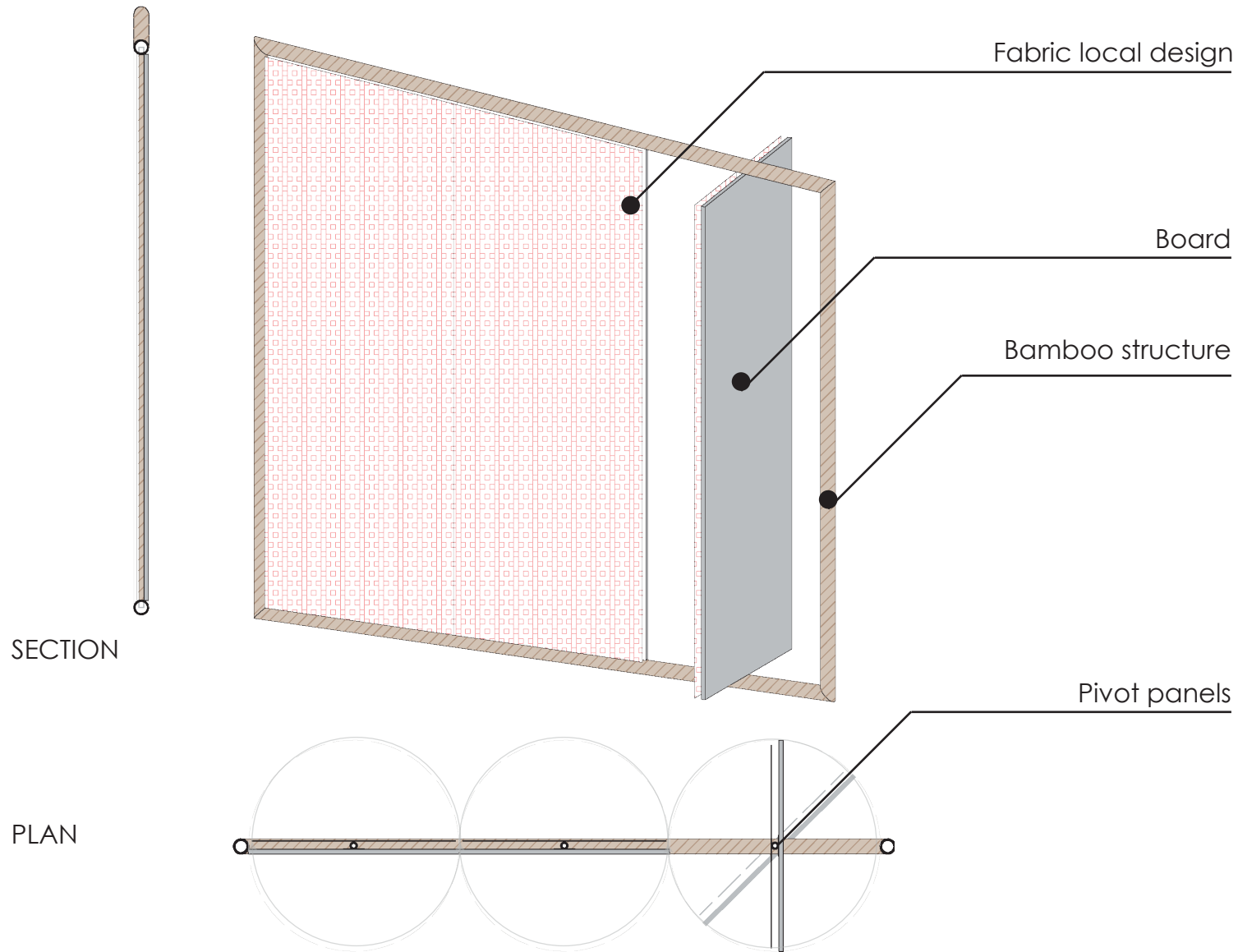
DESIGN IDEA

The center of the project provides flexibility on creating different areas for multiple activities.

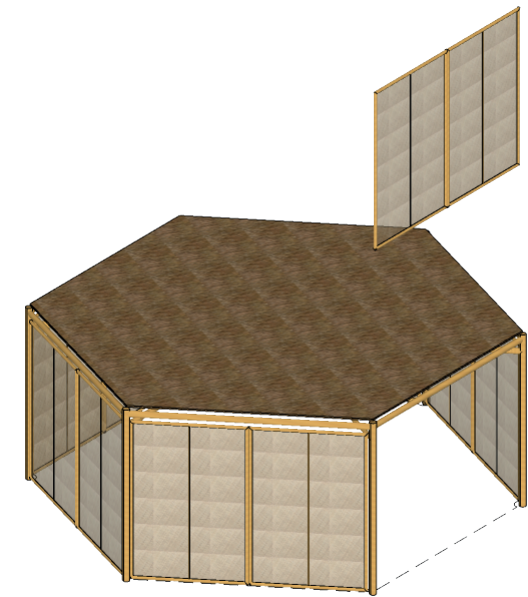
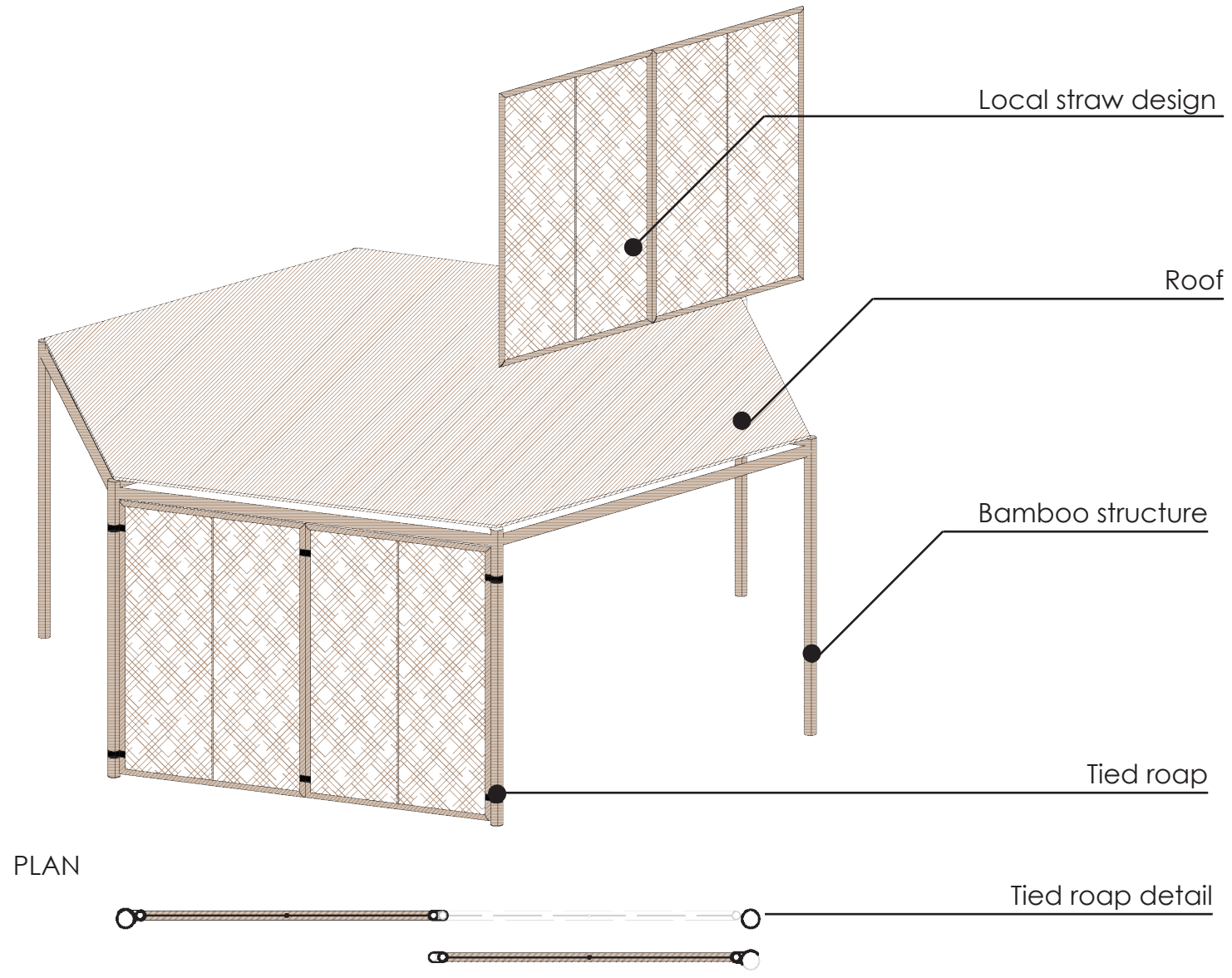
The design has closed volumes for indoor activities, meanwhile there is semiopen areas and open areas for multiple activities.



PANELS DETAILS

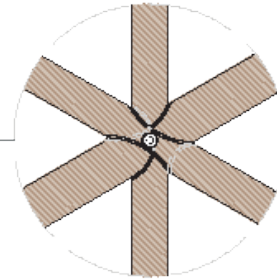
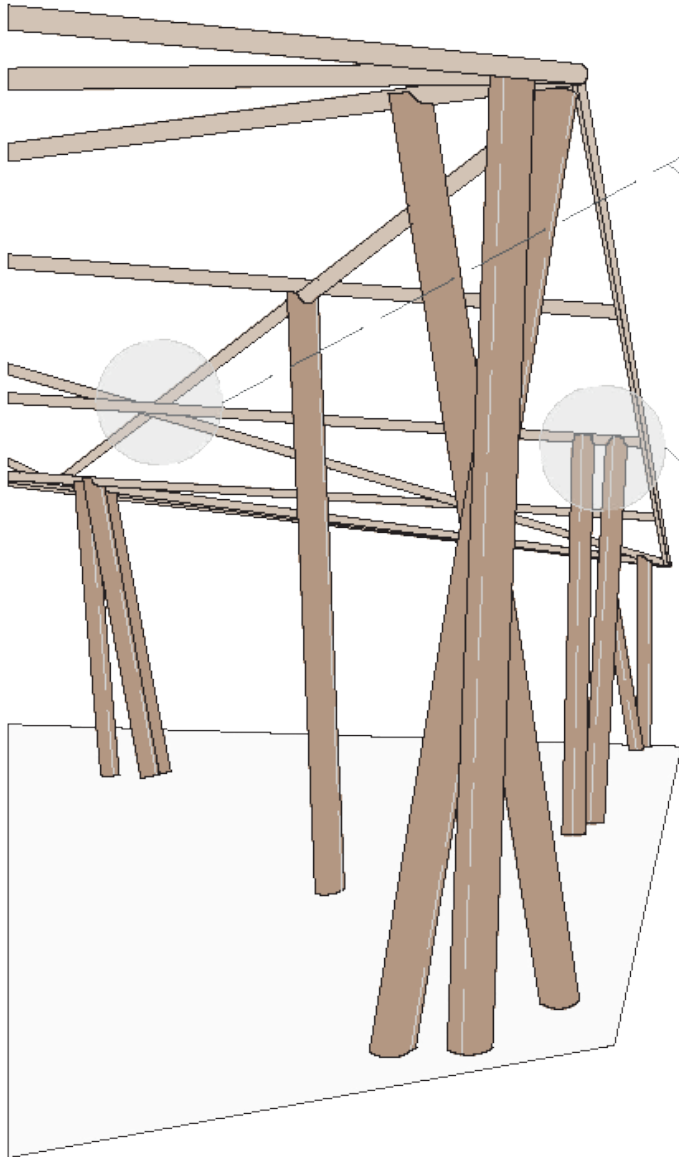


PANELS DETAILS

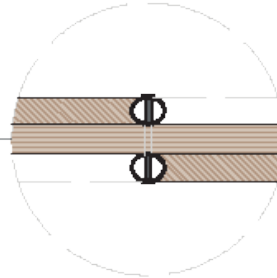


STRUCTURE DETAILS

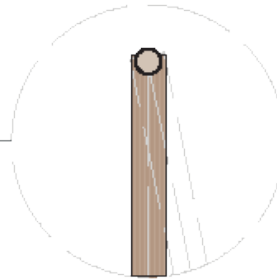
Bamboo joins



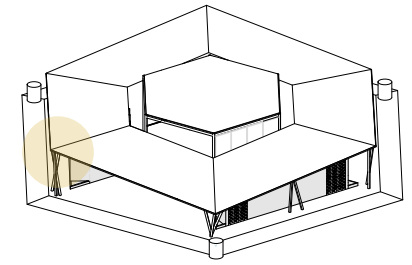
Bamboo structure
Tied roap
Hex Cap Screws



Bamboo structure
Hex Cap Screws



Bamboo structure
Bamboo angular joint
Hex Cap Screws



Splice
Joint



Orthogonal
Joint



Angular
Joint



Through
Joint



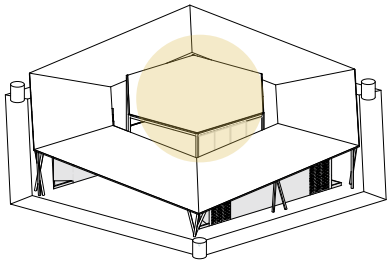
Bundle
Joint



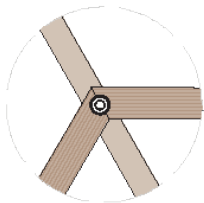
Multiangular
Joint

STRUCTURE DETAILS

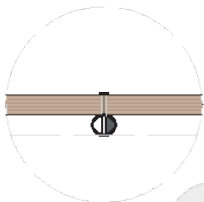
Bamboo joins



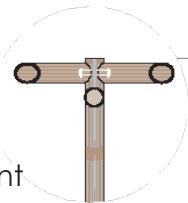
Bamboo structure
Tied roap
Hex Cap Screws



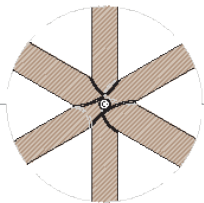
Bamboo structure
Hex Cap Screws



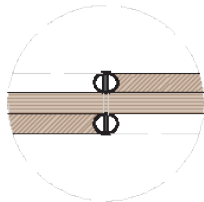
Bamboo structure
Bamboo angular joint
Hex Cap Screws



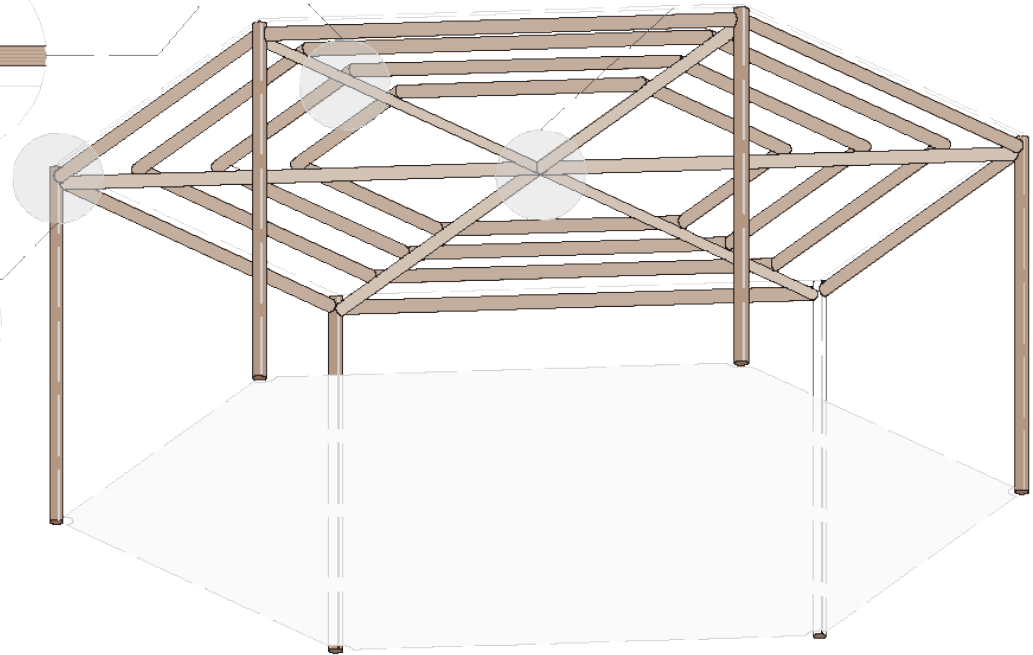
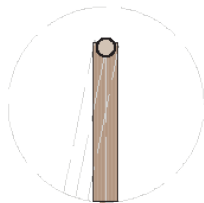
Bamboo structure
Tied roap
Hex Cap Screws



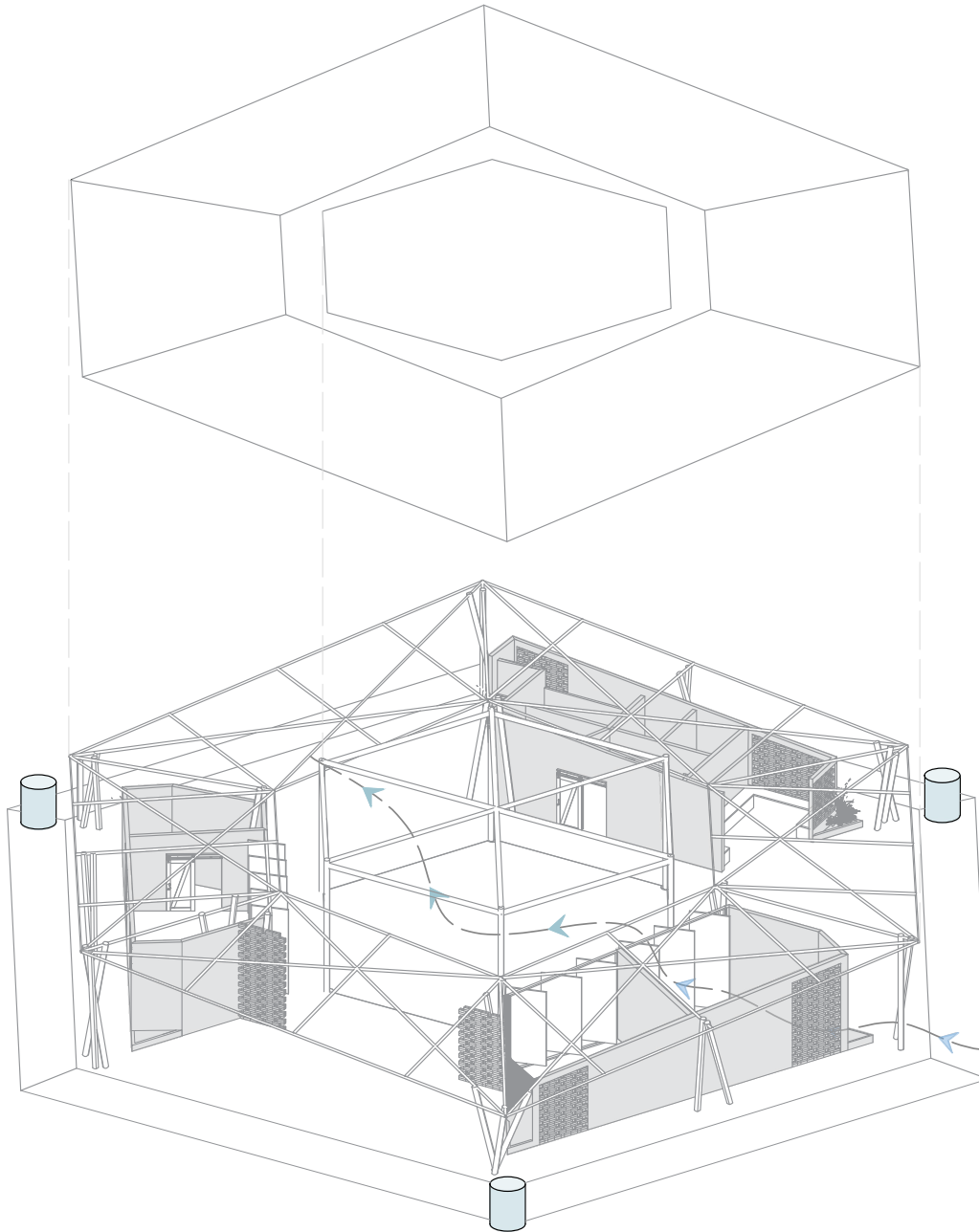
Bamboo structure
Hex Cap Screws



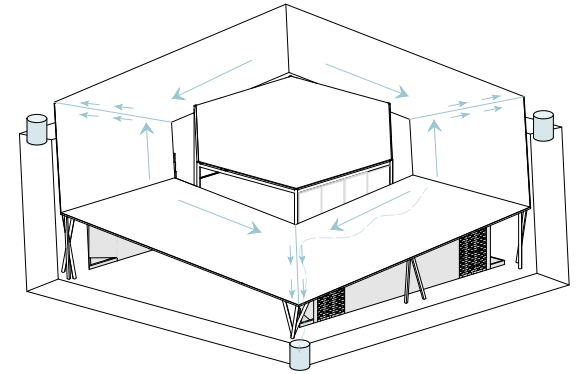
Bamboo structure
Bamboo angular joint
Hex Cap Screws



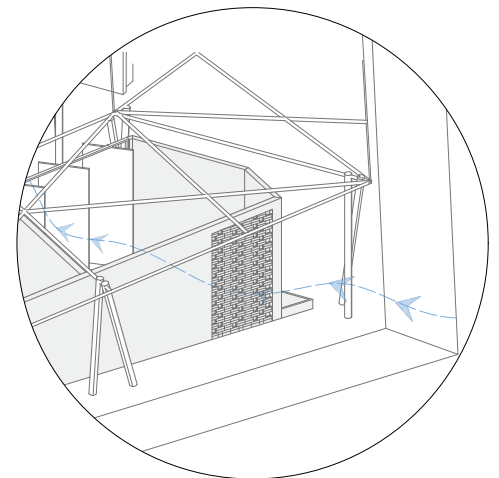
VENTILATION



WATER COLLECTION



CROSS VENTILATION THROUGH BRICKS



EXTERIOR RENDER



EXTERIOR RENDER



EXTERIOR RENDER



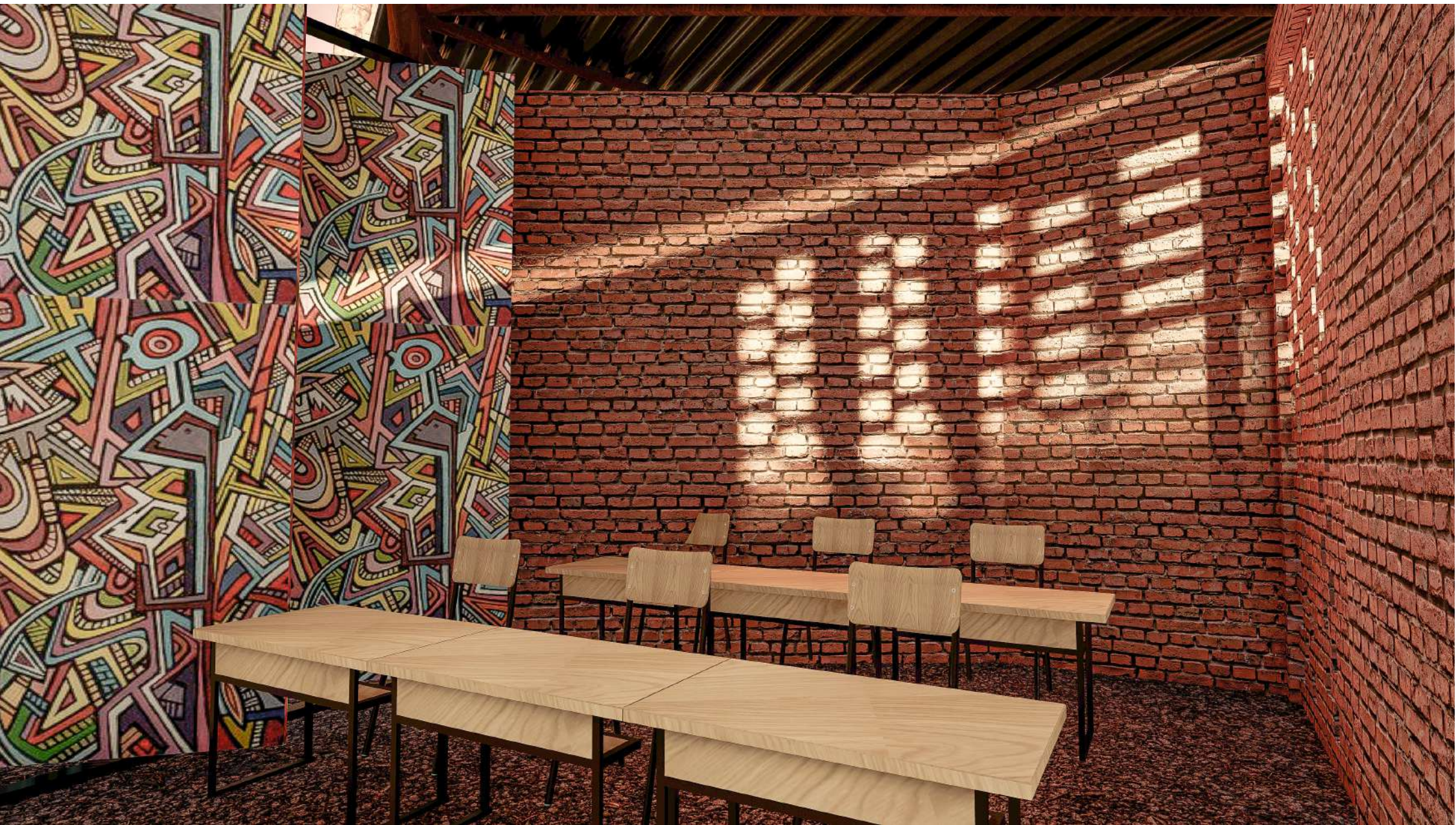
EXTERIOR RENDER



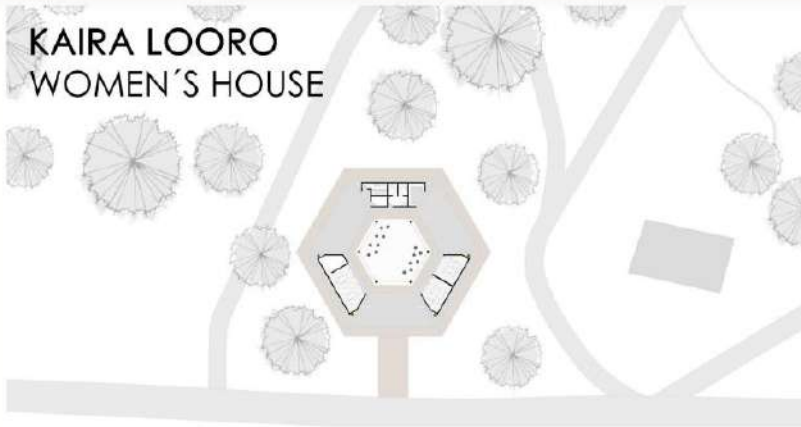
INTERIOR RENDER



INTERIOR RENDER



KAIRA LOORO WOMEN'S HOUSE



BEE-QUAL

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GROUND FLOOR PLAN

PANELS - CENTRAL SPACE



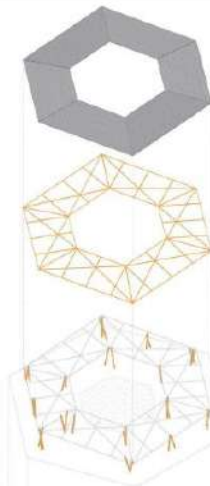
WATER COLLECTION



PANELS - FLEXIBILITY OF THE CENTRAL SPACE



CROSS VENTILATION THROUGH BRICKS



MATERIALS



ROOF



STRUCTURE



STRUCTURE



CENTER



EXTERIOR WALL



INTERIOR WALL

