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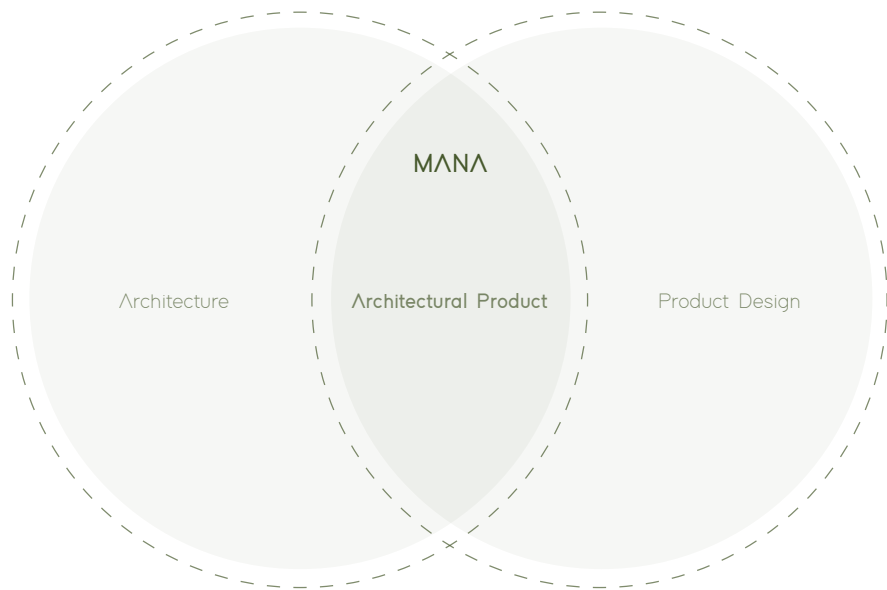
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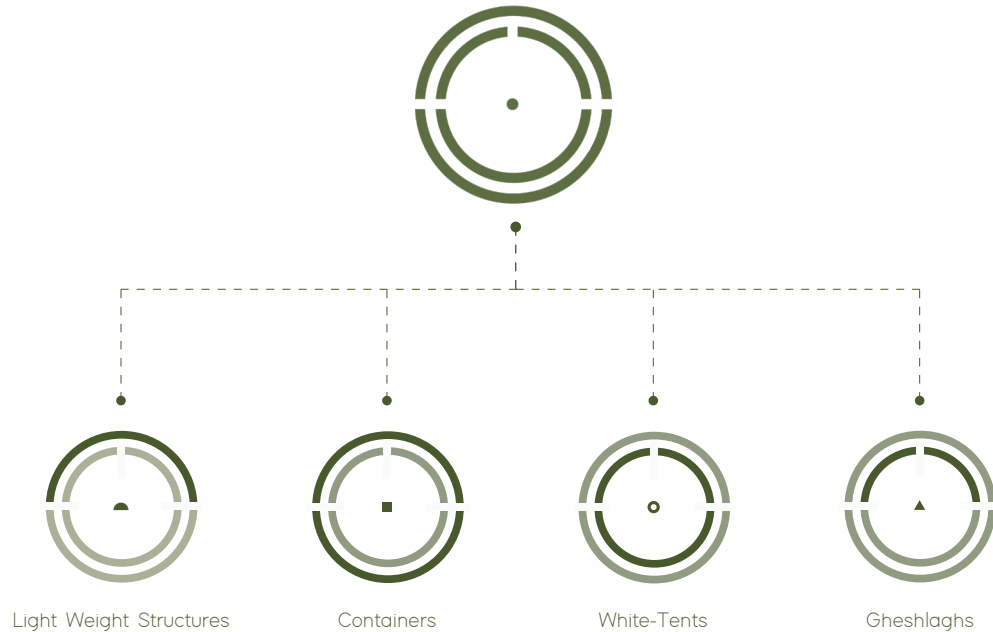
MANA

Mana is a start-up studio consisting of a design and executive team which officially started its professional activity with the support and investment of the 8&7 Diba Innovation Studio in the winter of 2022 based in Tehran-Iran. Mana's field of activity is focused on prefabricated architectural products along with design, research and construction in this field. The issue of prefabrication has attracted the attention and focus of many engineers, architects and companies in developed countries due to prominent and important features such as cost reduction and reduced construction time. Today's world is witnessing examples and instantiations of successful and admirable structures based on this technology and construction method.

About

The obvious advantages and importance of this field of architectural technology led the Mana team to acquire their specialized knowledge and skills in order to overcome design challenges, implementation complexities, engineering standards and focus on achievement of unique quality. Mana's current activities can be evaluated in the field of academic research by focusing on prefabricated structures and recycled materials, designing specialized and studied samples for mass production, overcoming engineering and executive challenges and issues, and striving to achieve a level of standard and international quality in this field.

Structure of MANA Products



VISIONS

MANA

Based on the contemporary concerns and challenges of architecture and construction industry, Mana Group formed its long-term goals and vision in order to identify and fill the existing gaps by relying on the tradition of Iranian architecture along with modern technology and knowledge.

MANA goals can be defined with a general overview of the following:

- Climatic and indigenous perspective despite modernism
- Formal simplicity and minimal structure
- Integration of modern technology and indigenous architectural strategies
- Recycle based on the perspective of materials
- Reducing the weight of architectural structures
- Ability of reproduction and expandability over time
- Flexibility and uniqueness in design and construction
- Including a variety of functions in single structures
- Significant reduction in cost and construction time
- Creating architectural quality and innovative space while being prefabricated
- Redefining the construction process by a contemporary and progressive method
- Provide a new approach toward the audience and user experience
- Design and construction of details based on sustainable architectural concepts
- Minimization of construction damage to nature and the environment
- Providing products based on engineering and interdisciplinary design



Customer Service



Standard & Quality



Sustainability & Energy



Time Optimization



Prefabricated Process



Technological Advancement



Expandability



Economic Optimization



Mobility



Engineering Collection

MANA Traits

One of the most important characteristics of MANA as a leading group in the field of prefabricated architectural products is originality and novelty in design and overall structure. Mana Group, by using young and leading engineers and specialists in various fields and relying on current knowledge of design and architecture, has succeeded in forming a professional and unique group and at the same time a standard structure. Therefore, different, flexible and standard products are the result of design and cooperation of experts in this structure.

^ Noteworthy feature of Mana is the importance and defined position of the employer and the customer, as well as the design of the optimal route from the moment of order to product delivery and after-sales service (repair, reconstruction, inspection, maintenance, etc.). In this regard, the user experience plays a central role and based on this, the path of designing and presenting products is formed with the participation and coordination of the user.

Among the mentioned features, adherence and firm belief in "standardization" in the field of architecture and the subject of prefabrication is one of the fundamental features of MANA. Due to the lack of relevant structures and infrastructures, this becomes a vital and critical issue in the architectural discipline. In this way, Mana Group defines the design and presentation of standard architectural products among its main and key features.



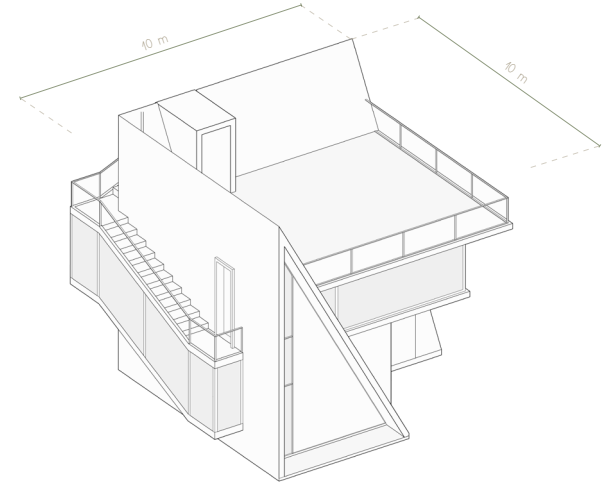
MANA GHESHLAGHS

GHESHLAGHS

MANA Gheshlaghs including prefabricated residential units, designed and engineered in order to overcome the modularity and prefabricated housing typology challenges. These residential units are designed in a flexible way to provide adjustable gross floor area based on client demand. One of the most important characteristics of this category, is the possibility of modular expansion and attachable possibility of these structures, in order to achieve high quality and suitable structures as a prefabricated single unit.



Product **V**



Product V

S

Area: 140 m²

V S



V is an A-Frame based product which had been developed based on the heritage of Gilan province architecture for humid and mild weather conditions. The materiality of this product includes Kanduj (rice stem) prefabricated panels in consonant with the Gilan rural heritage aesthetics.



This product consists of a master bedroom with a 180 degree opening, which captures the most optimum view of the environment. The mentioned product in a way merges itself with the environment meanwhile preserving the identical independency of its own. The rice stem as the key material of this product plays an important role in the formal characteristic of this product. Although the finishing material could vary based on the defined project and client demand.



The design criteria which defined the existing formal pattern had been generated based on a dualistic envelope strategy. Elaborating, the paradoxical approach towards solid and transparent envelopes will define the solid minimal facades on back and right with minimum opening on their faces.

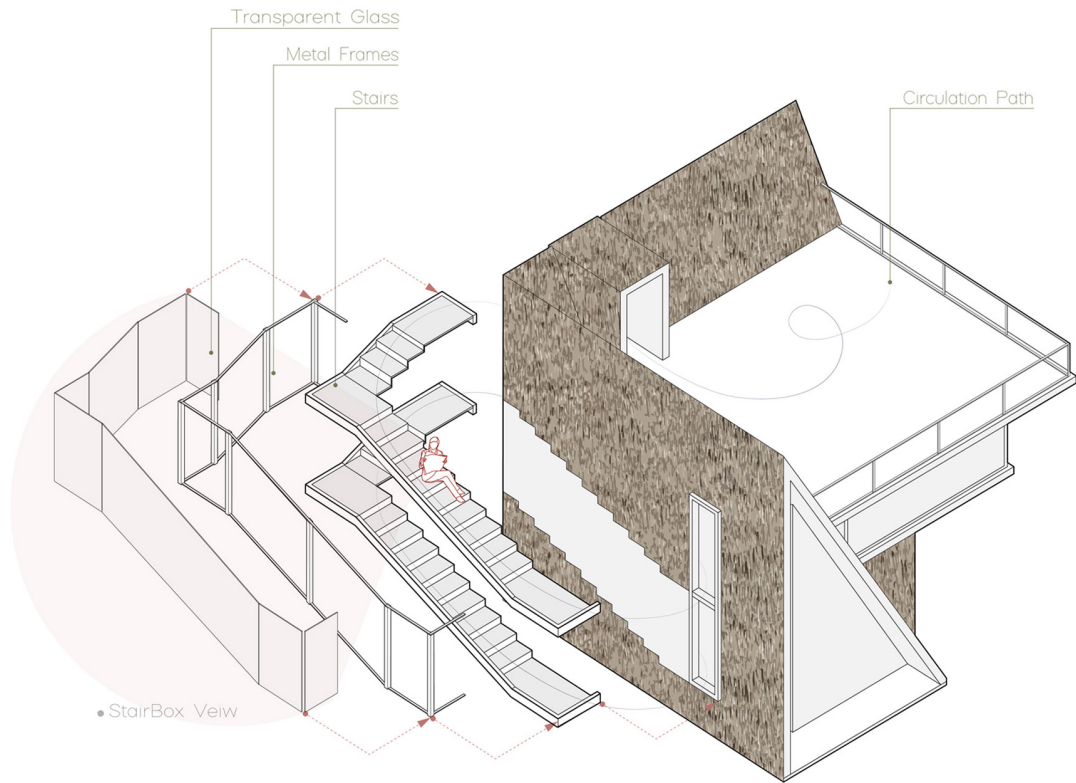


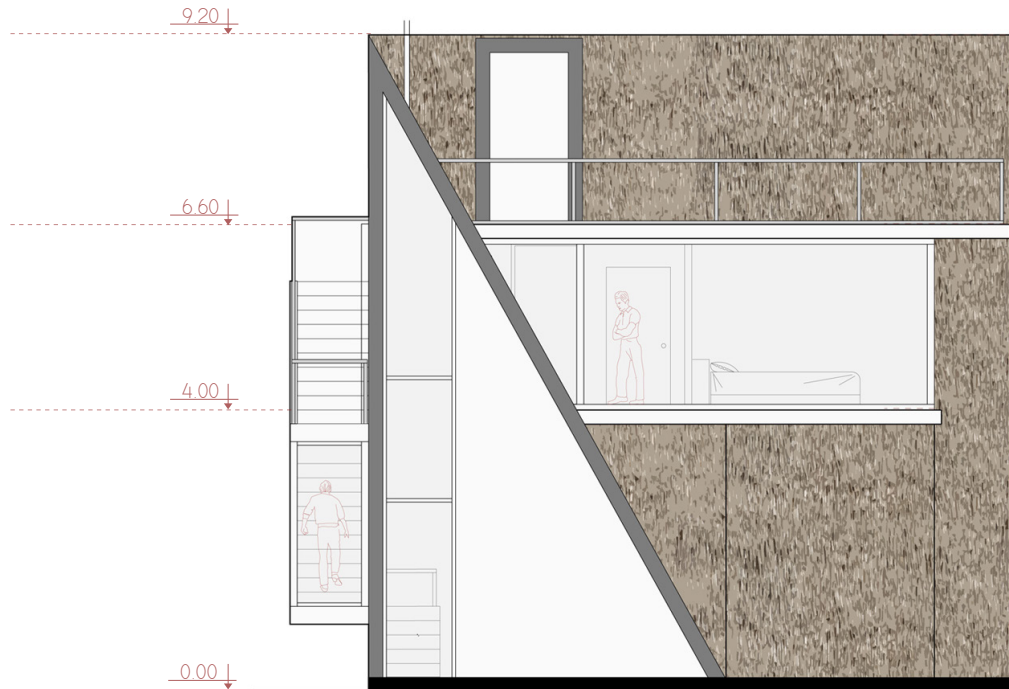
The interior design of this product is also determined by the rural heritage of Gilan province combined with modern architectural structure.



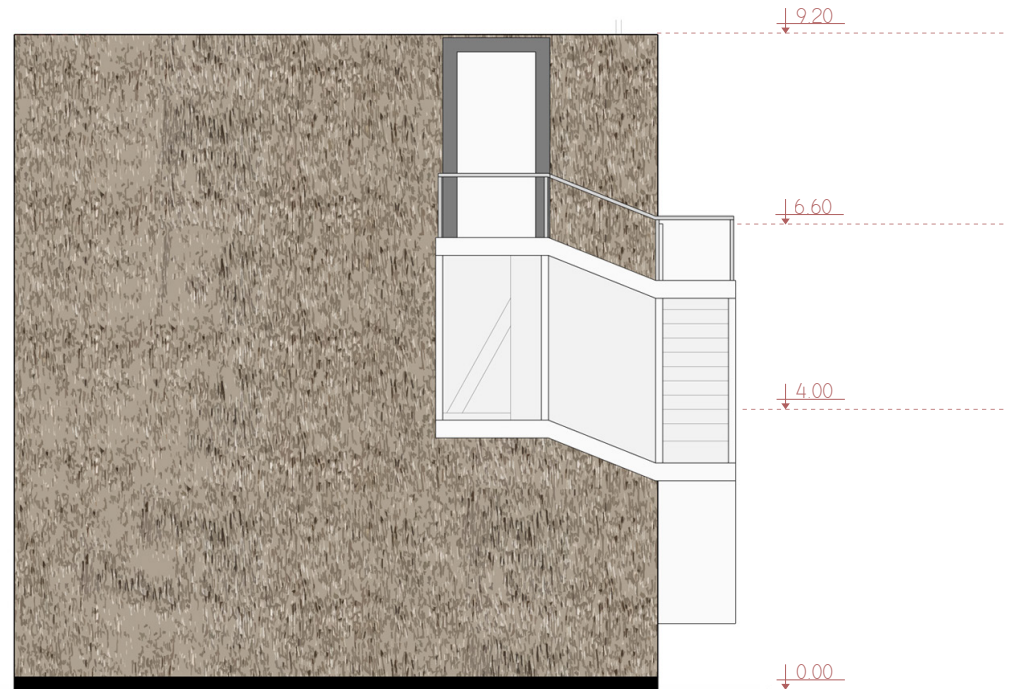




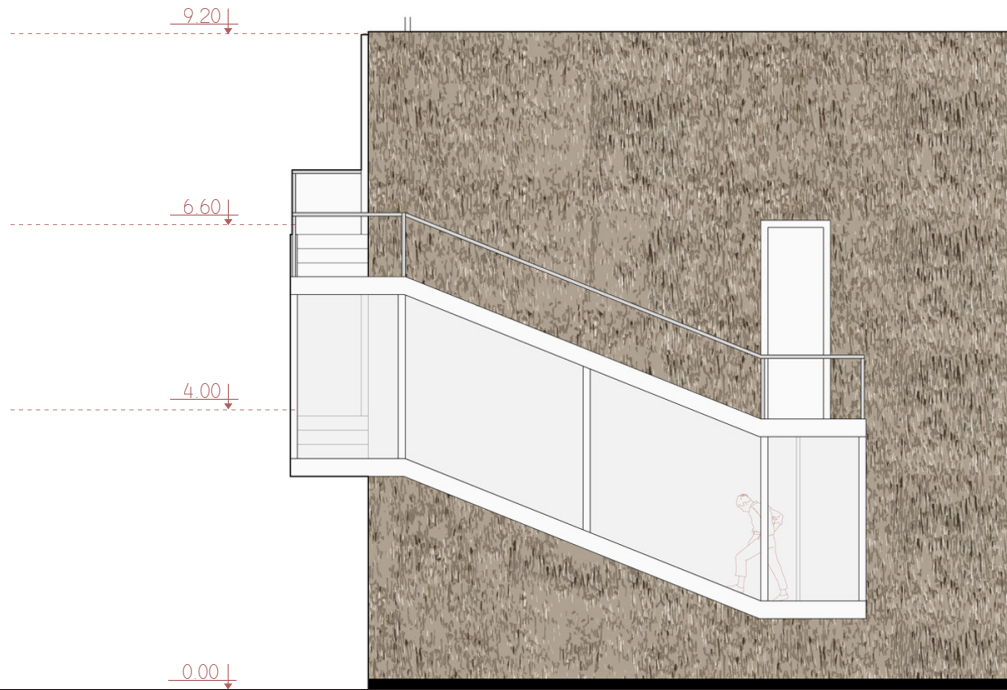




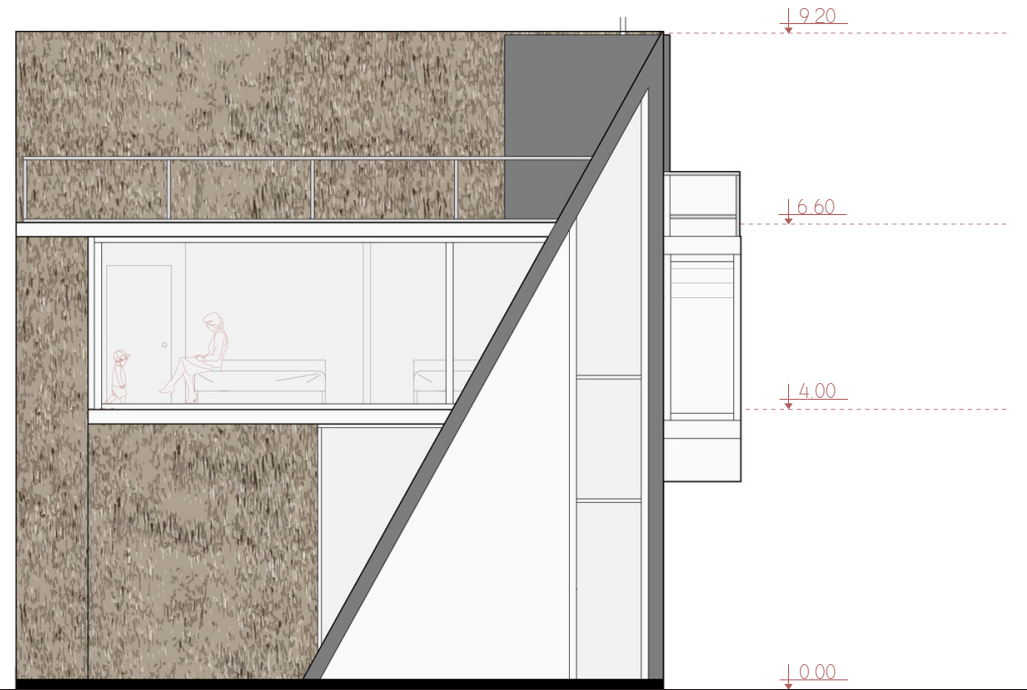
Front Elevation



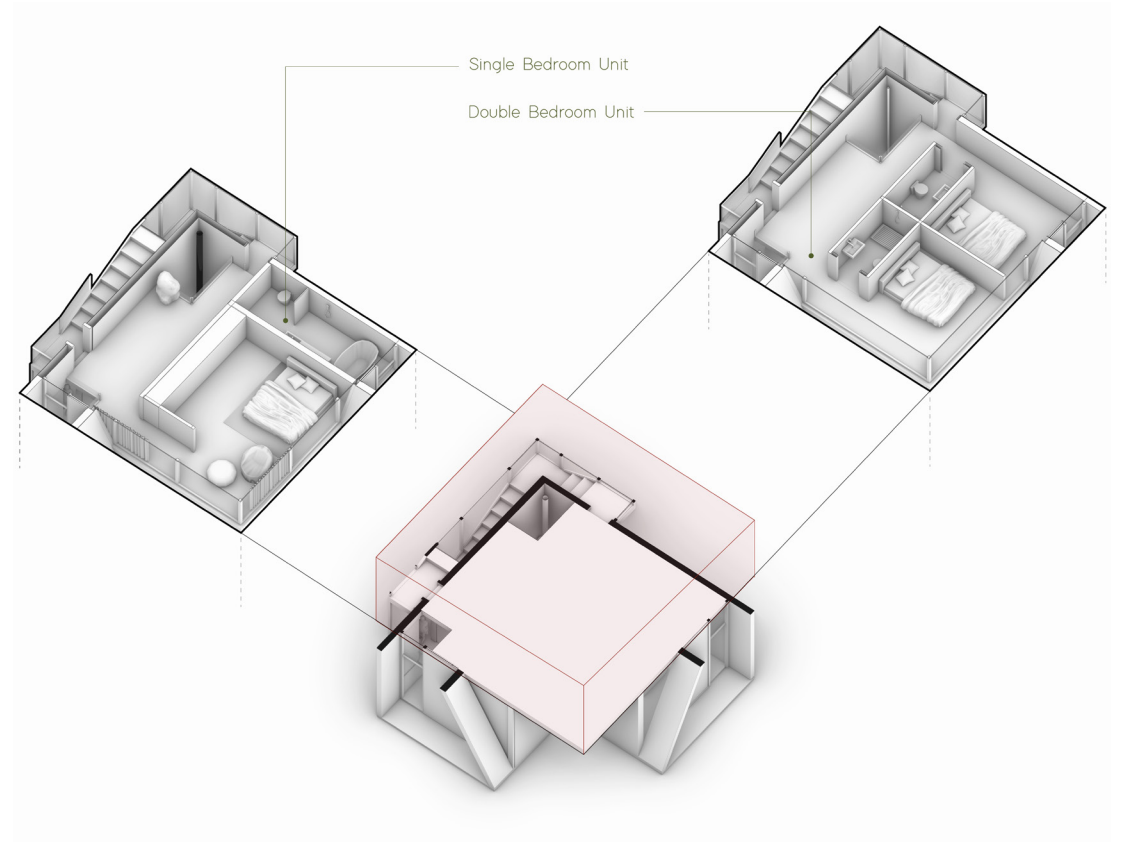
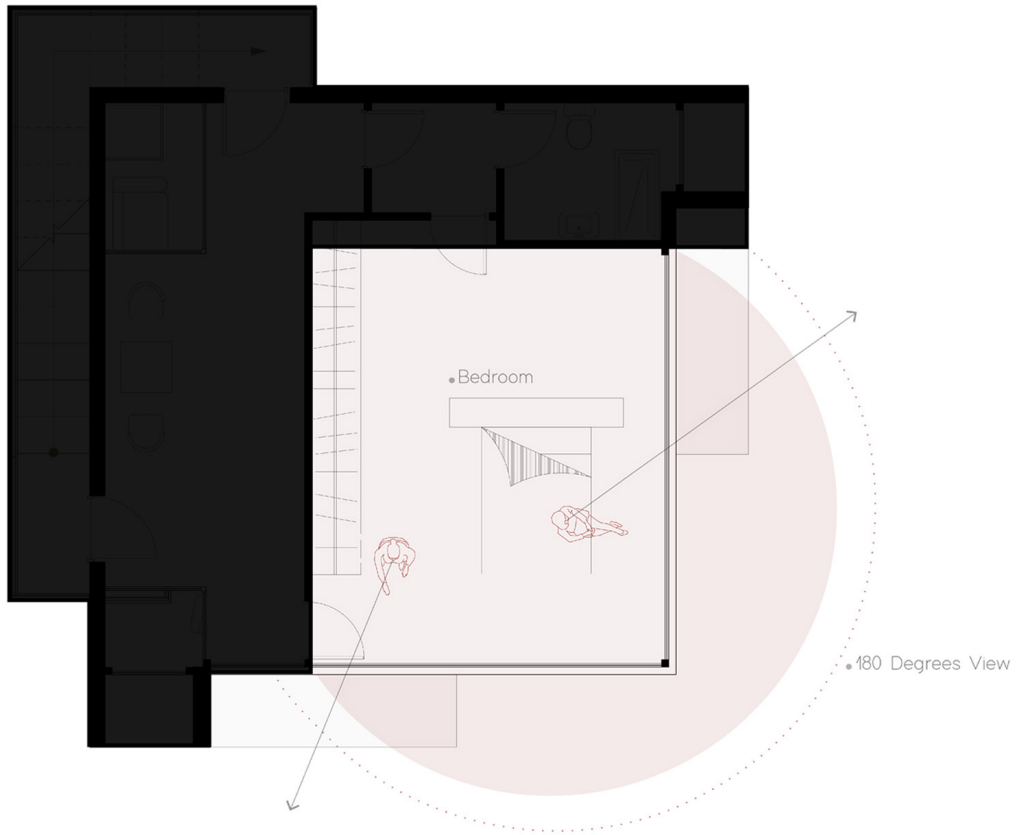
Back Elevation



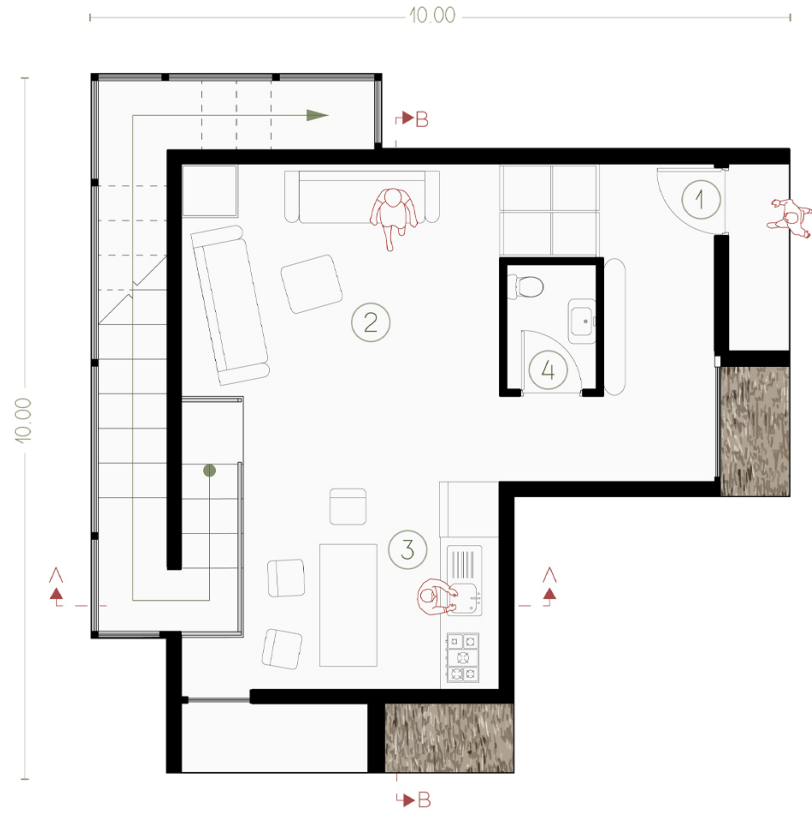
Left Elevation



Right Elevation

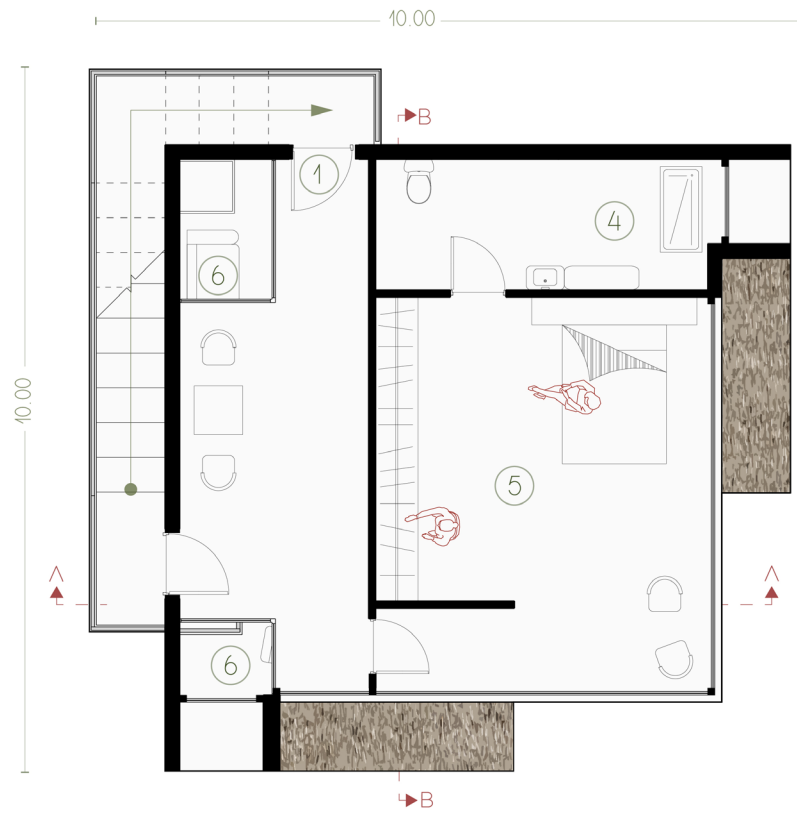


Ground Floor Plan



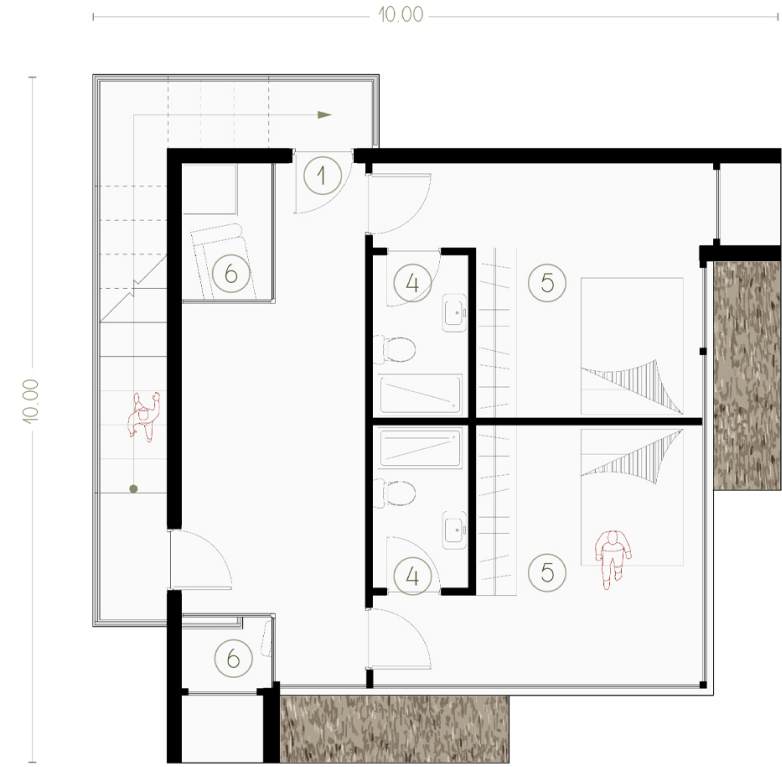
- ① Entrance
- ② Livingroom
- ③ Kitchen
- ④ Bathroom

First Floor PPlan - Single Bedroom

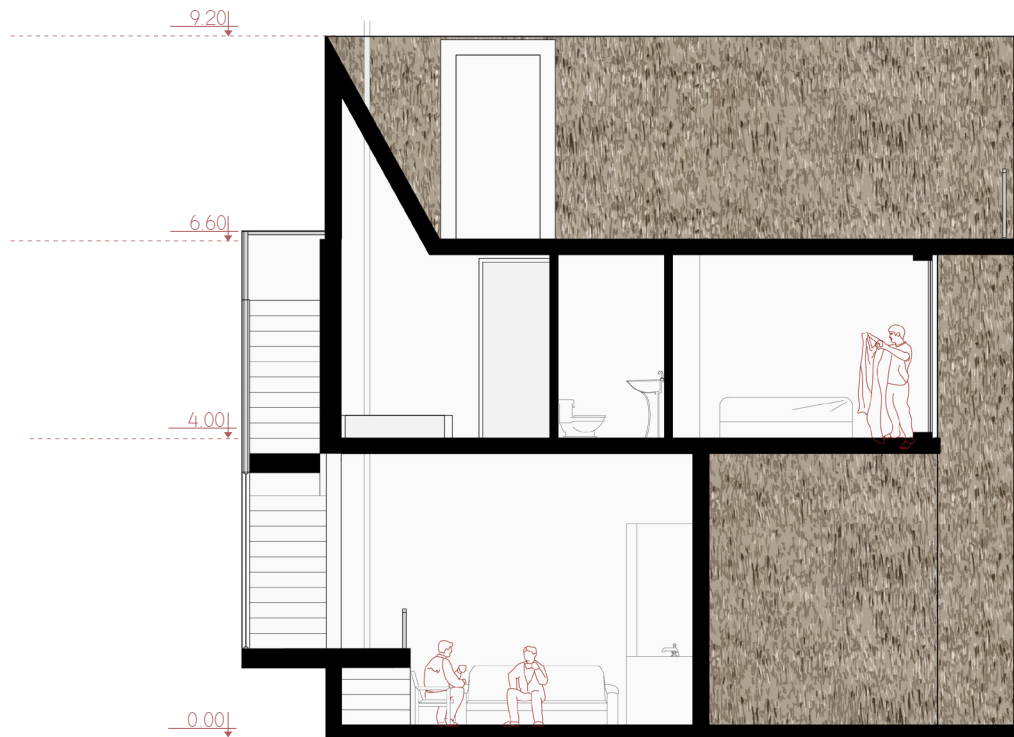


- ① Entrance
- ② Livingroom
- ③ Kitchen
- ④ Bathroom

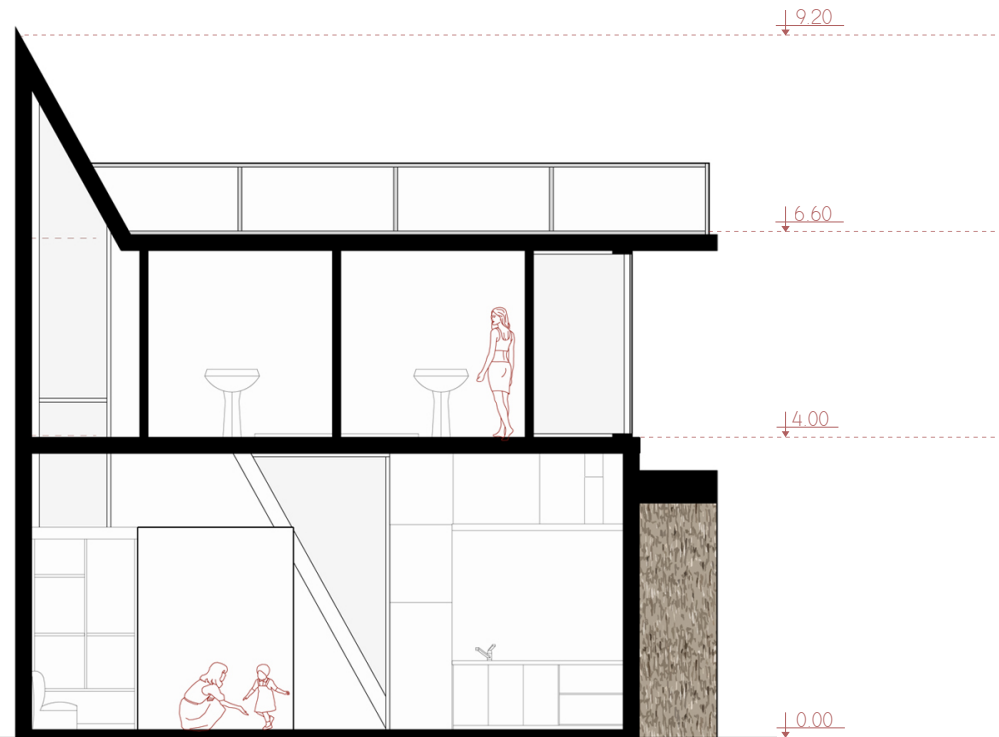
First Floor PPlan - Double Bedroom



- ⑤ Bedroom
- ⑥ Void



A-A Section



B-B Section



Product **Hive**

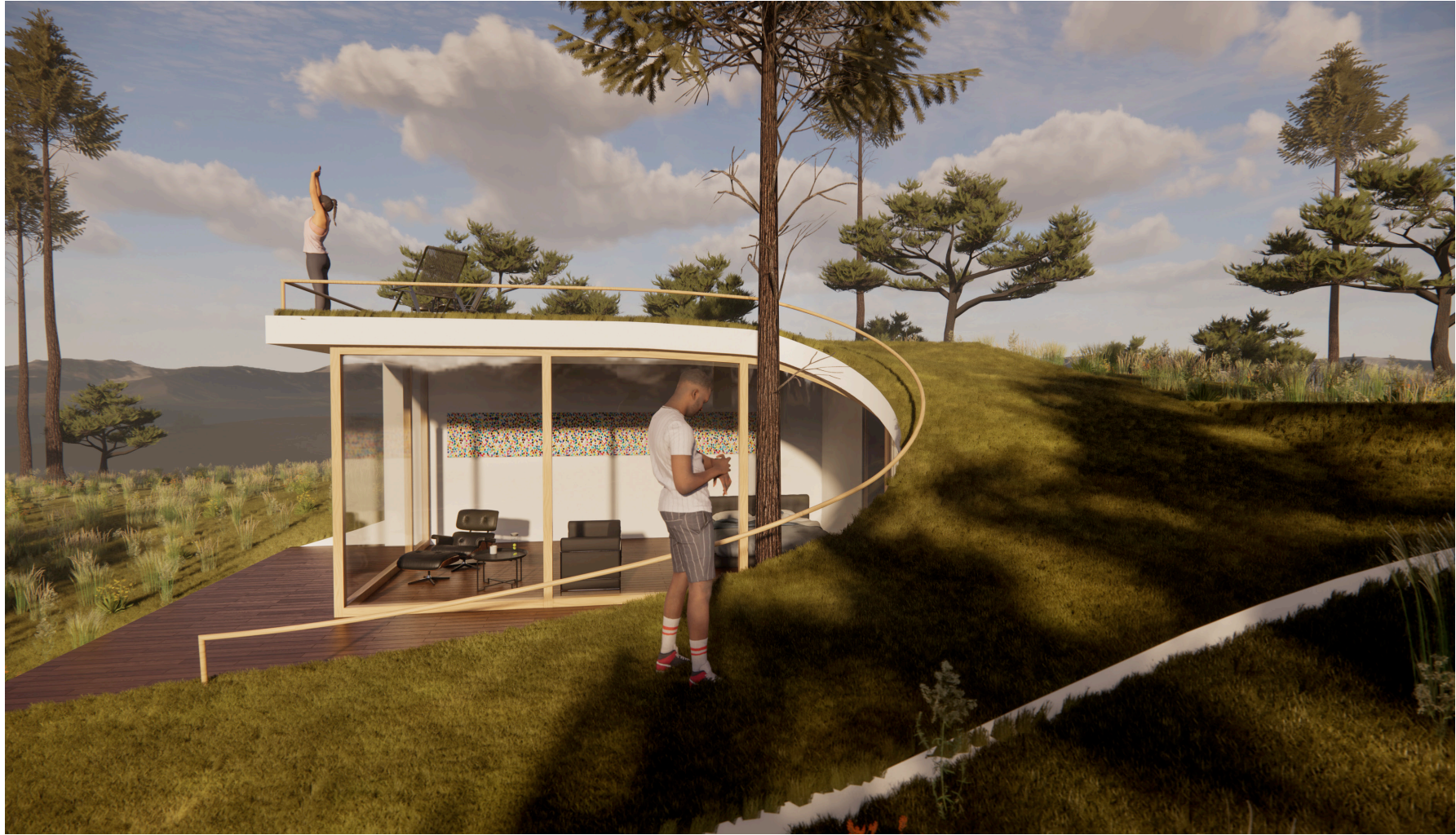
Hive



Hive is a unique product of MANA gheslaghs, both in terms of its spatial structure and its practical application. The most important feature of this product is its relation to nature and the manner of its natural form. The main concept of this product includes excavation in the project site and burying of the prefabricated module in the heart of the landscape.



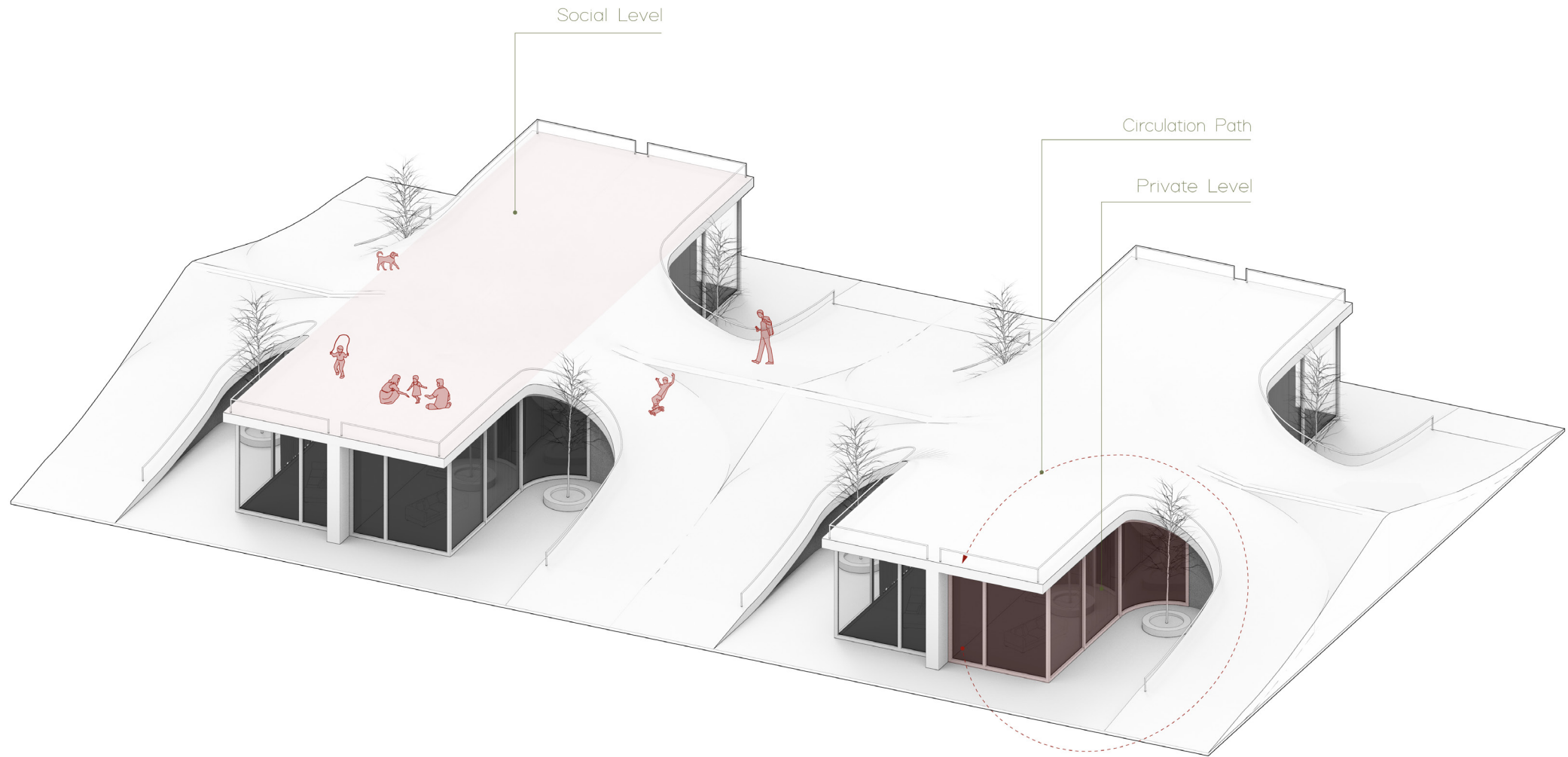
The dualistic form of this product creates noble spaces and enigmatic approaches in the discipline of architecture. The paradoxical definition of inside, outside and the space in between which are connected with a visual access towards all of this states of spaces could be recognized as the main features of this product.

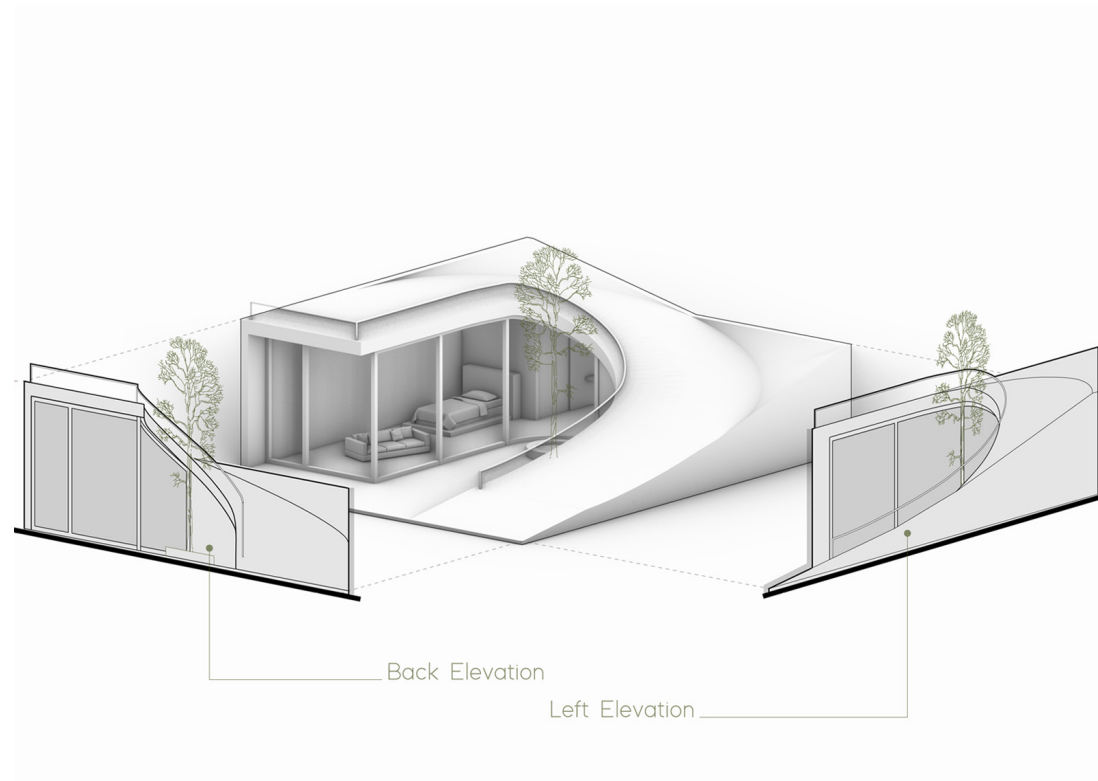
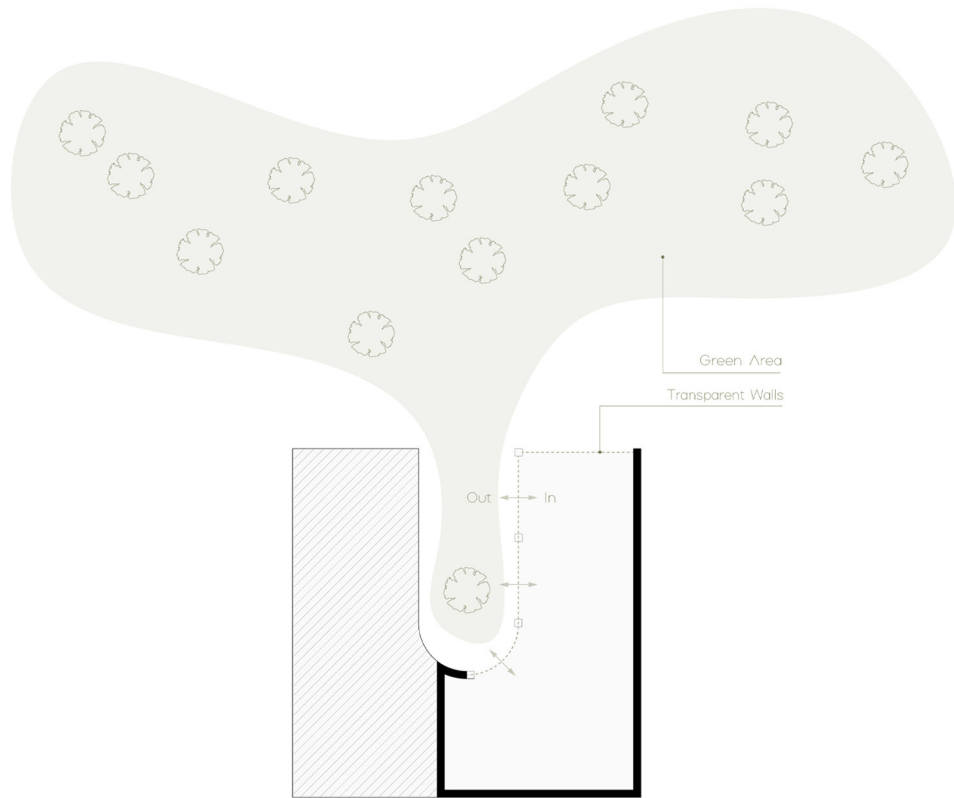




The interior space of Hive, proposes a minimal and reach experience of natural environment merged with a minimal materiality of the product.

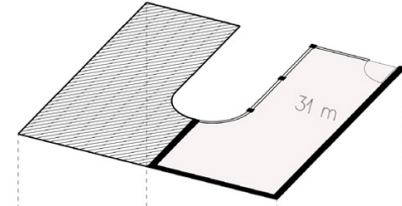




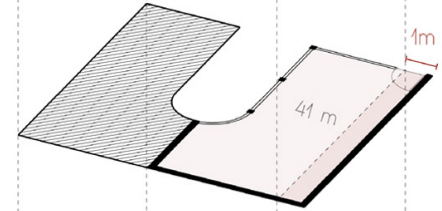


One of the most important features of Hive, is its expansion potential and possibilities. This product had been designed and developed based on its formal and sustainable expansion which proposes an integrated habitable level of landscape while activating the second level on its roof top as the result. This product could be consider as an absolute choice for small scale landscape hotels and rural developments with a sustainable approach of design and structure.

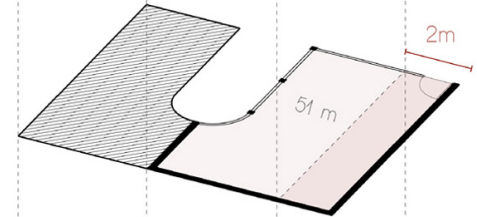
● Single Room For 1



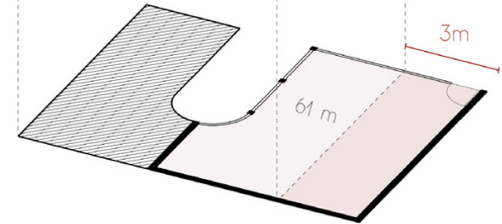
● Single Room For 2

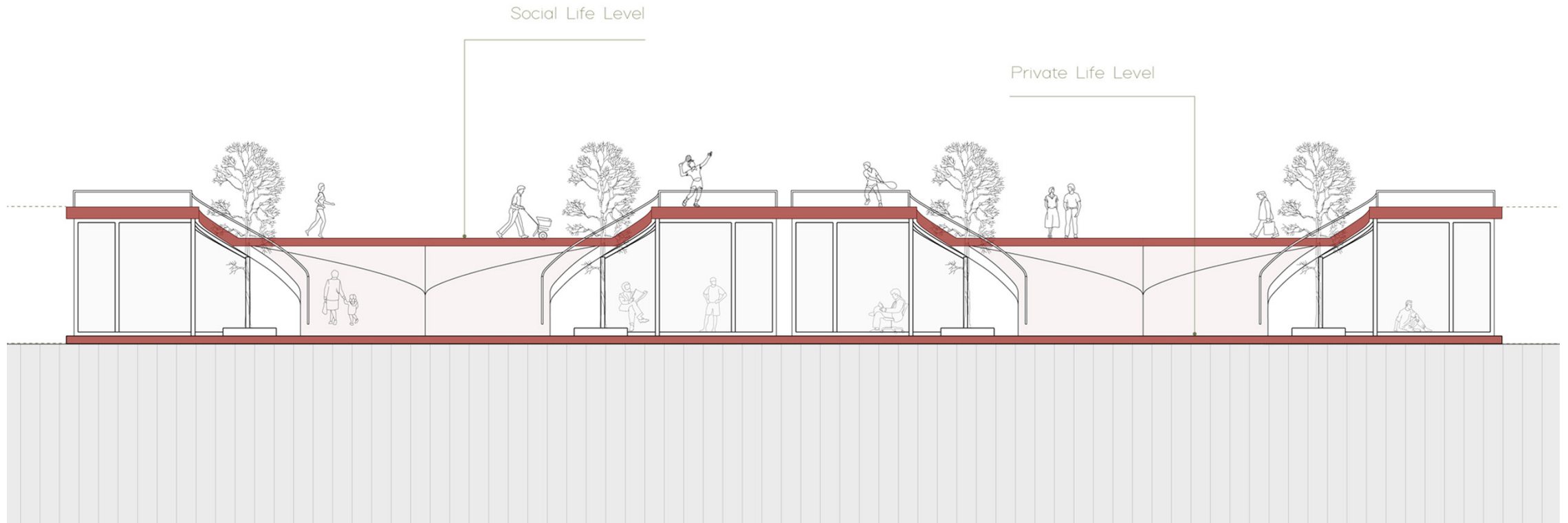


● Double Room For 3

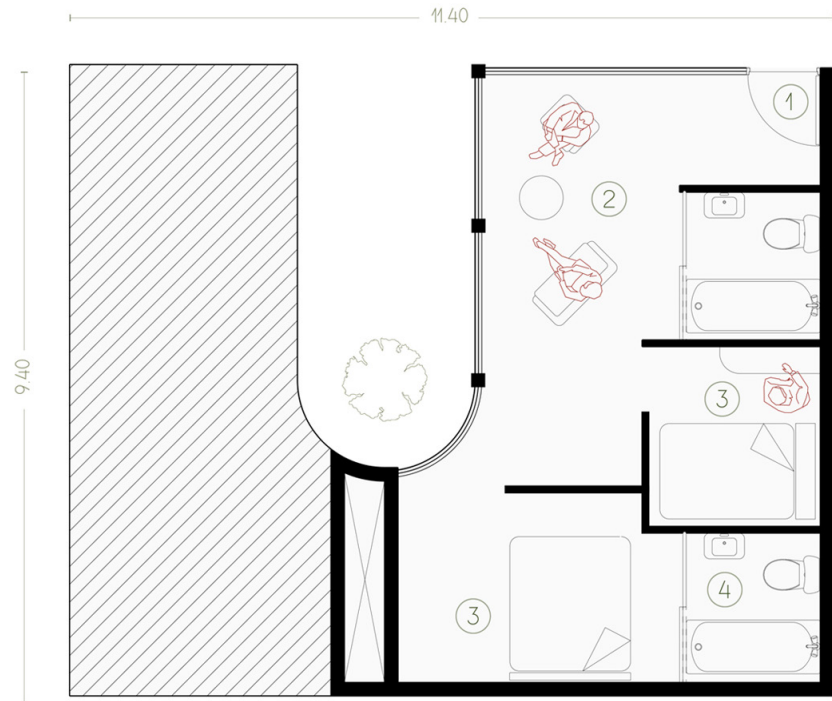


● Double Room For 4



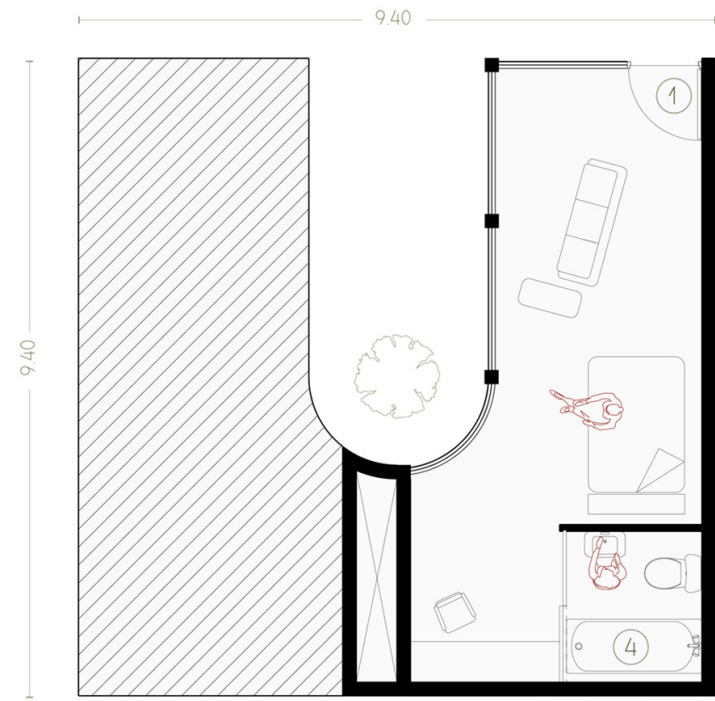


Double Bedroom Plan



- ① Entrance ② Livingroom

Single Bedroom plan

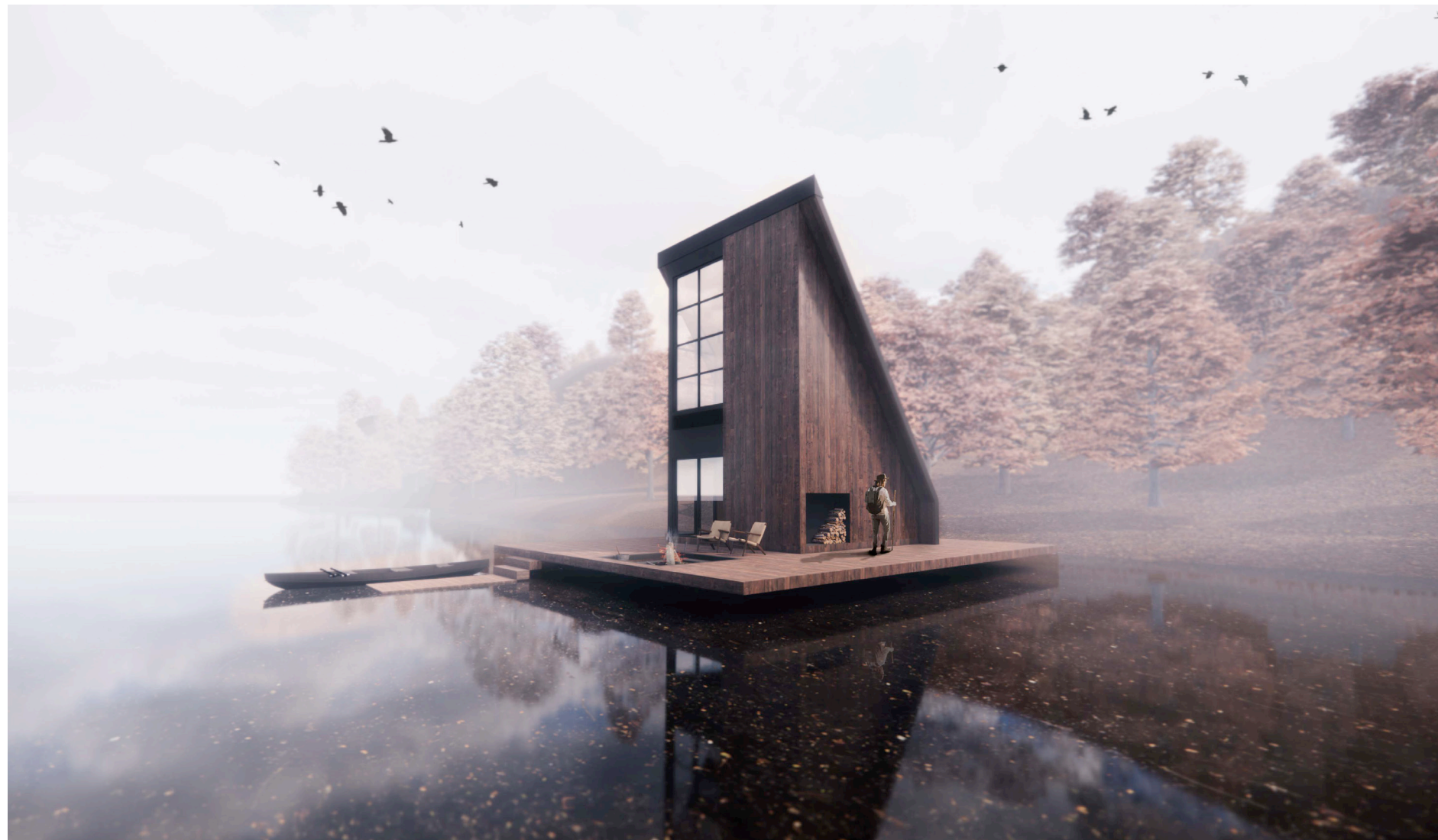


- ③ Bedroom ④ Bathroom



Product **Kooch**

KOOCH S



Kooch is the smallest product of MANA gheslaghs with 40 square meters floor area. This product had been designed and developed for small scale residential demand and is also designed for humid and mild weather conditions.







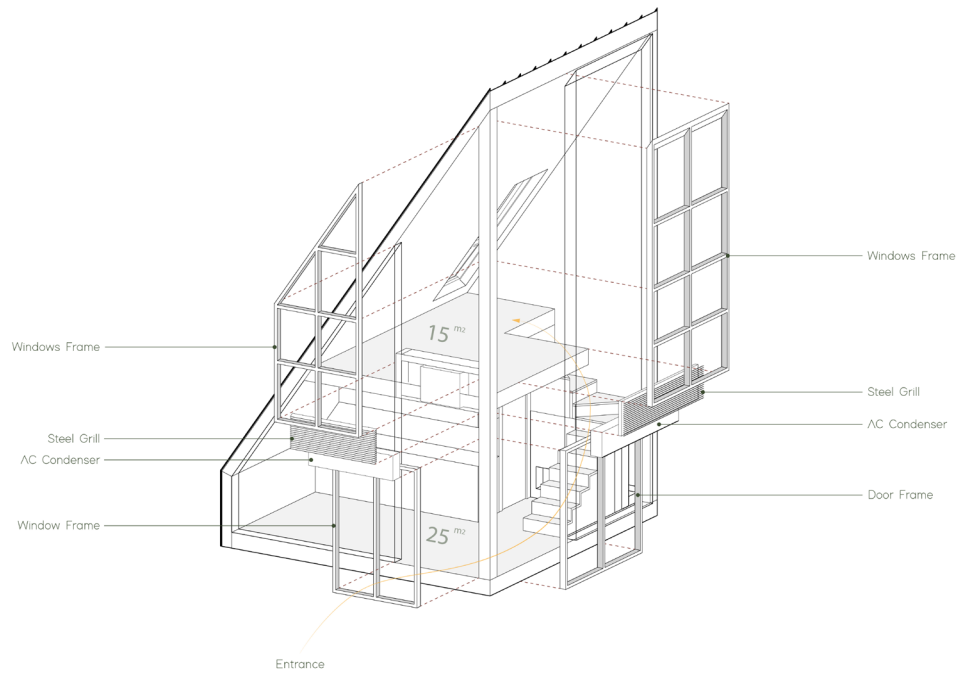
Kooch is a potential choice for challenging landscapes instantiating: Swamps, forests and unusual spaces in which the possibility of construction is limited and a flat deck (including suitable foundation) is the minimum requirement of this product. The simplicity of this product makes it a considerable option as it merges itself into natural environments.



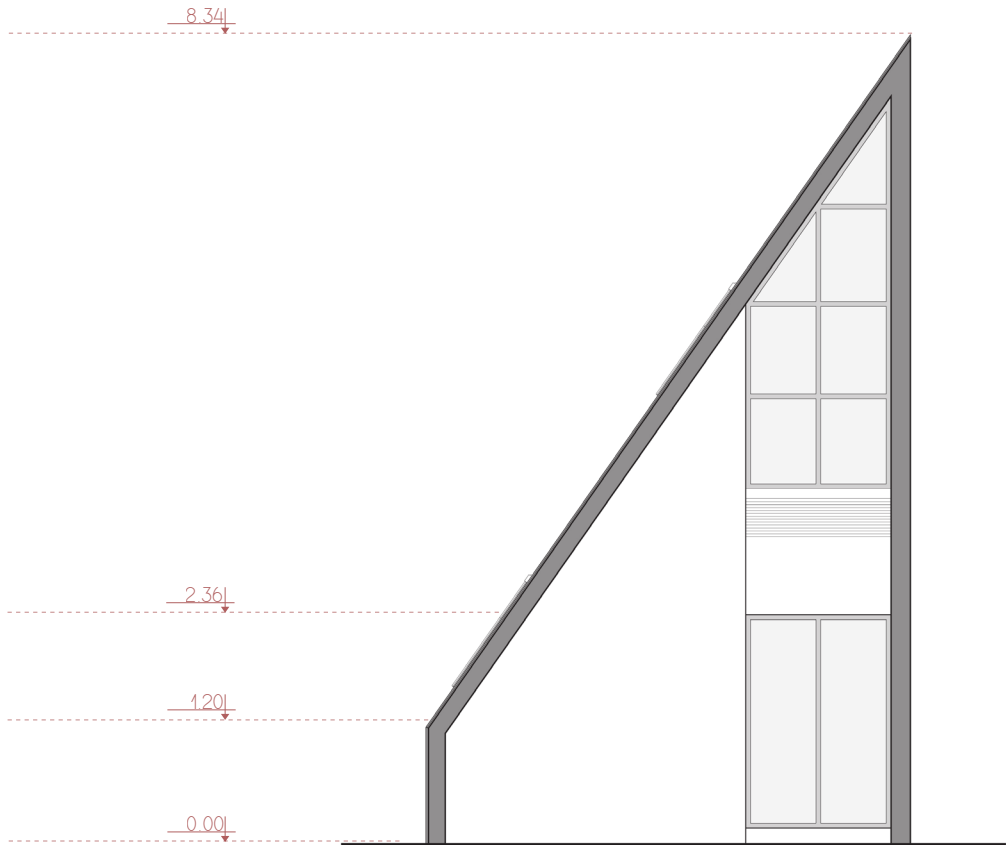




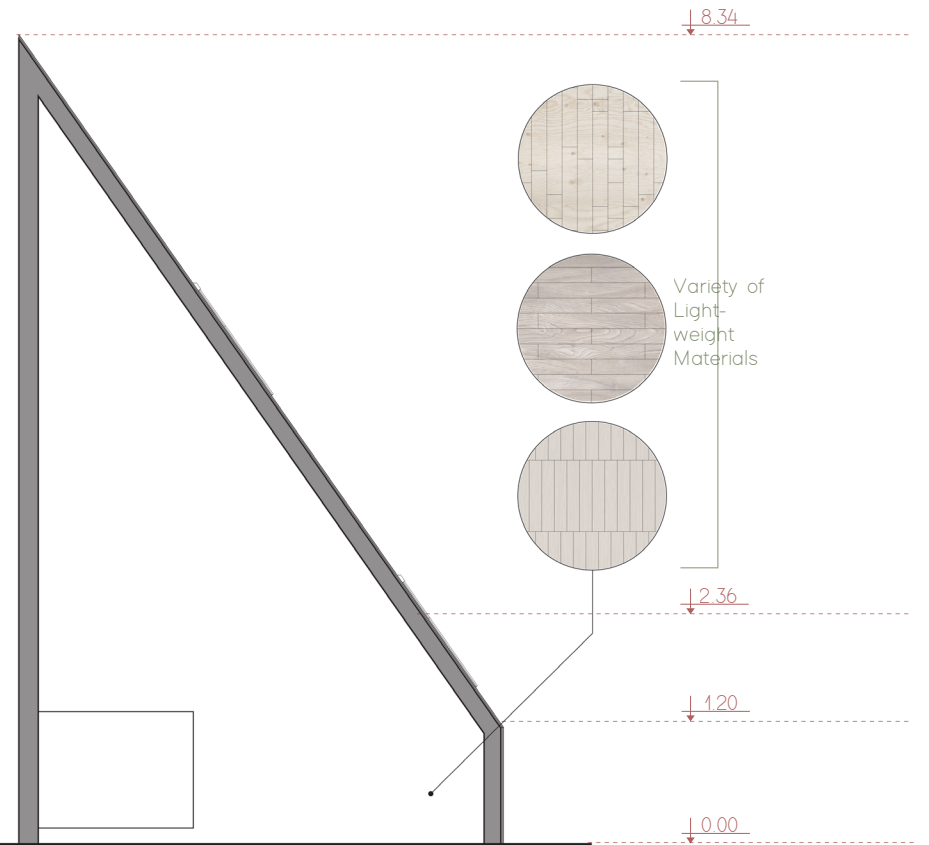




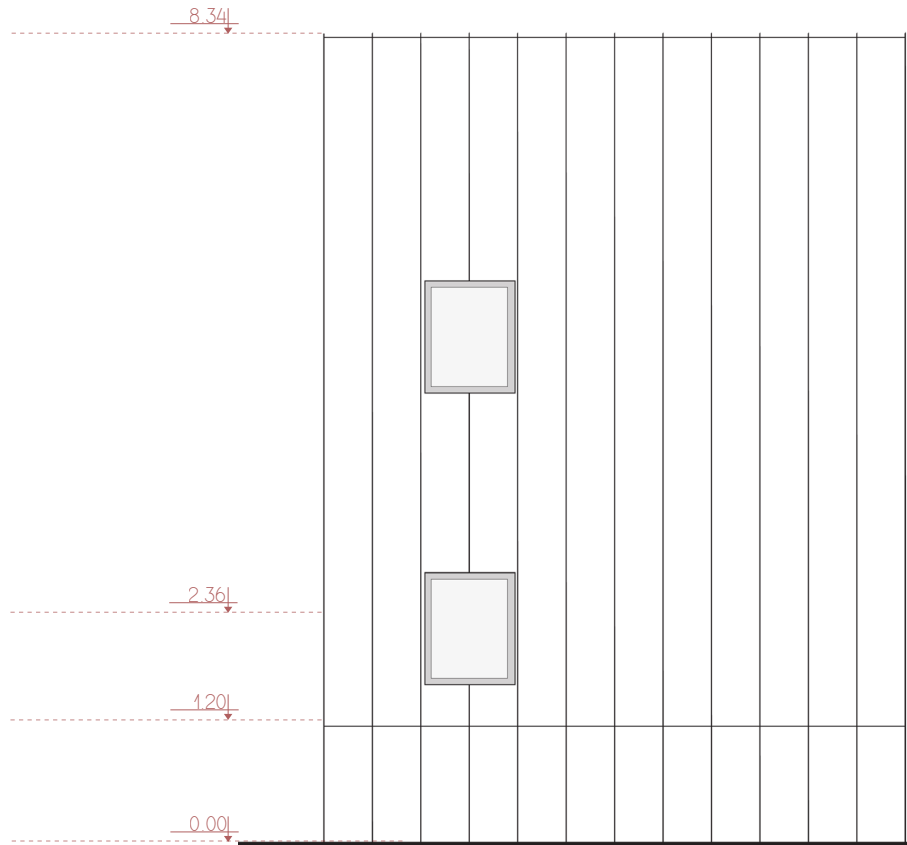
The basic form of this product consist of Λ -frame structure with minimum architectural changes in the basic structure.



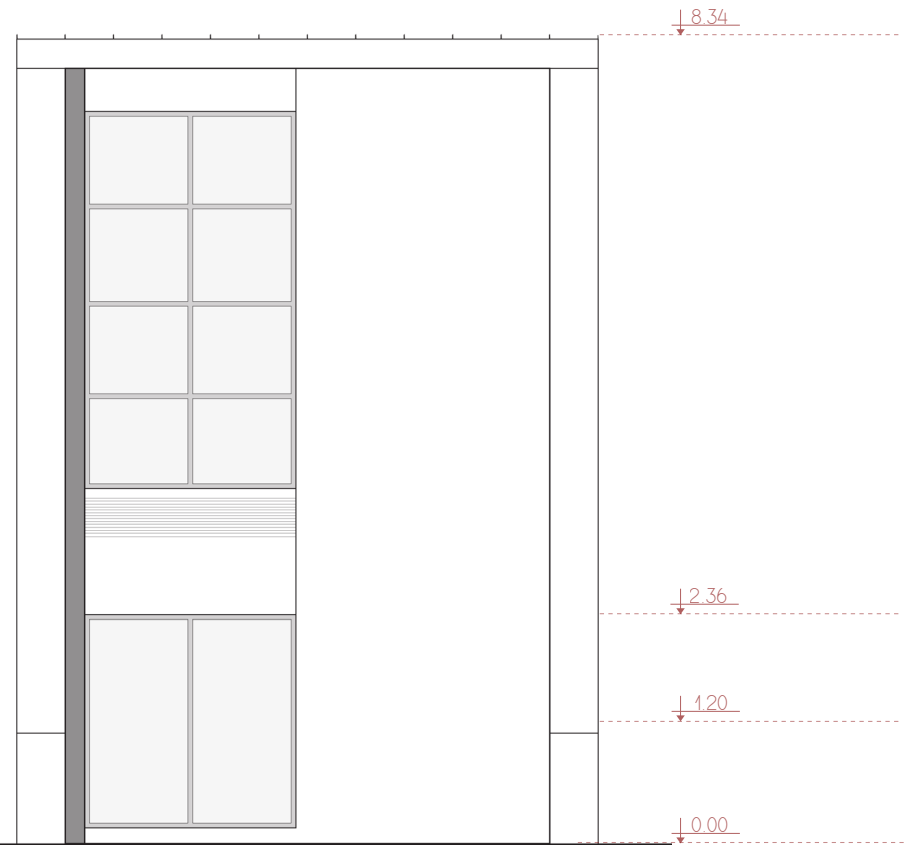
Front Elevation



Back Elevation

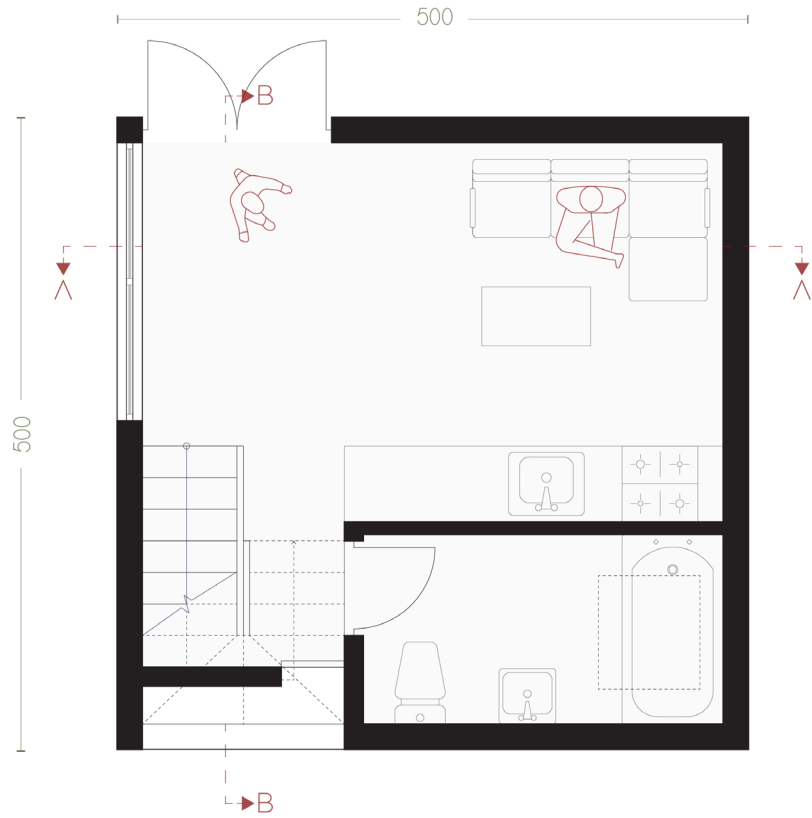


Right Elevation

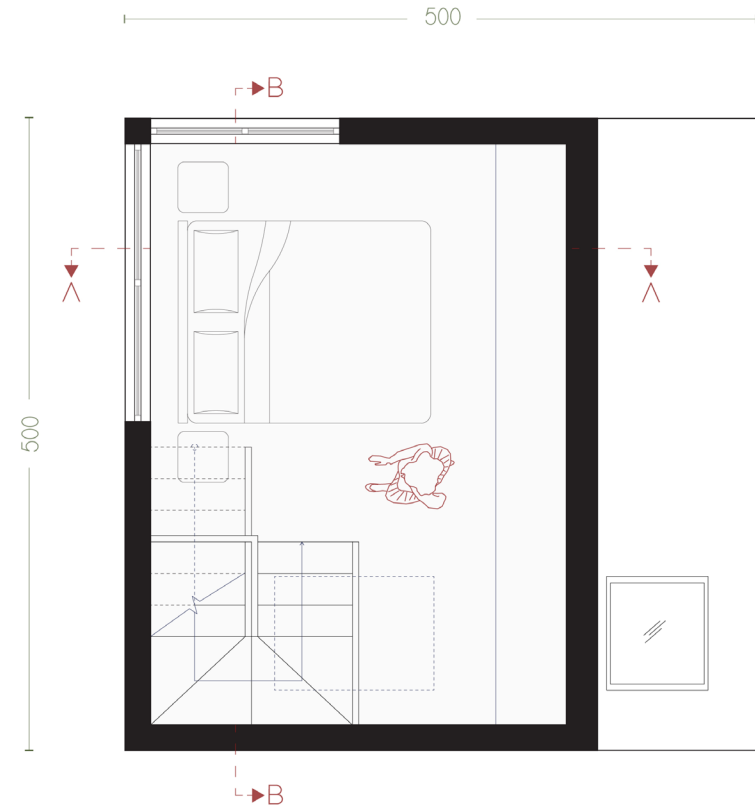


Left Elevation

Ground Floor PPlan

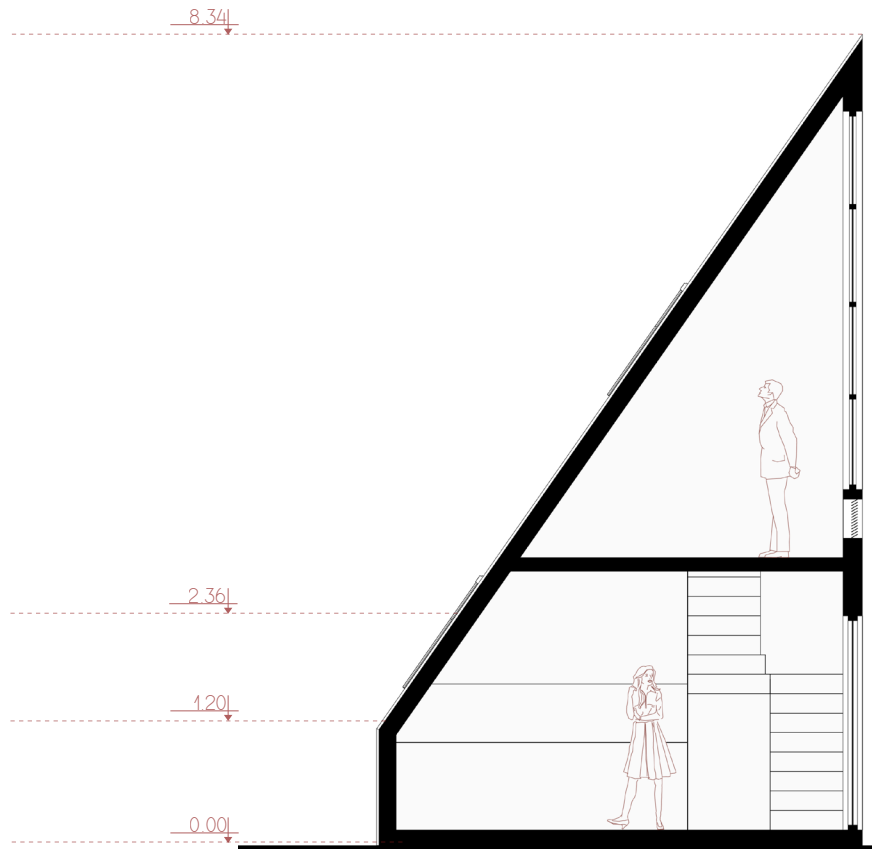


First Floor PPlan

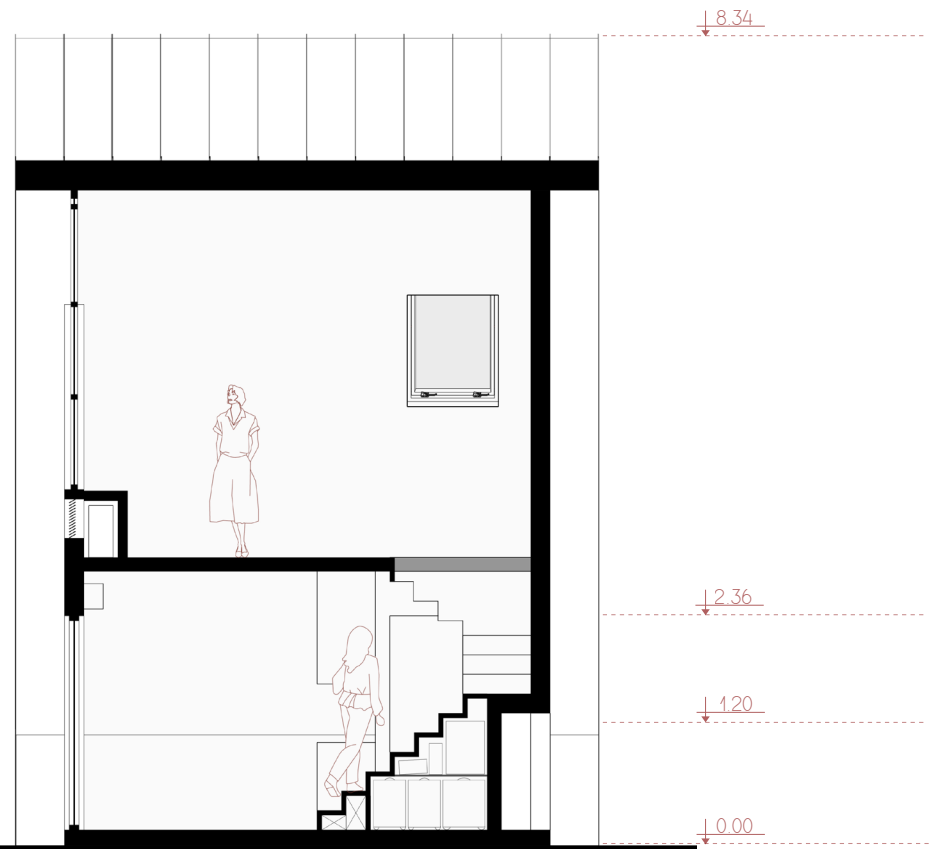


- ① Entrance
- ② Livingroom
- ③ Kitchen
- ④ Bathroom

- ⑤ Bedroom



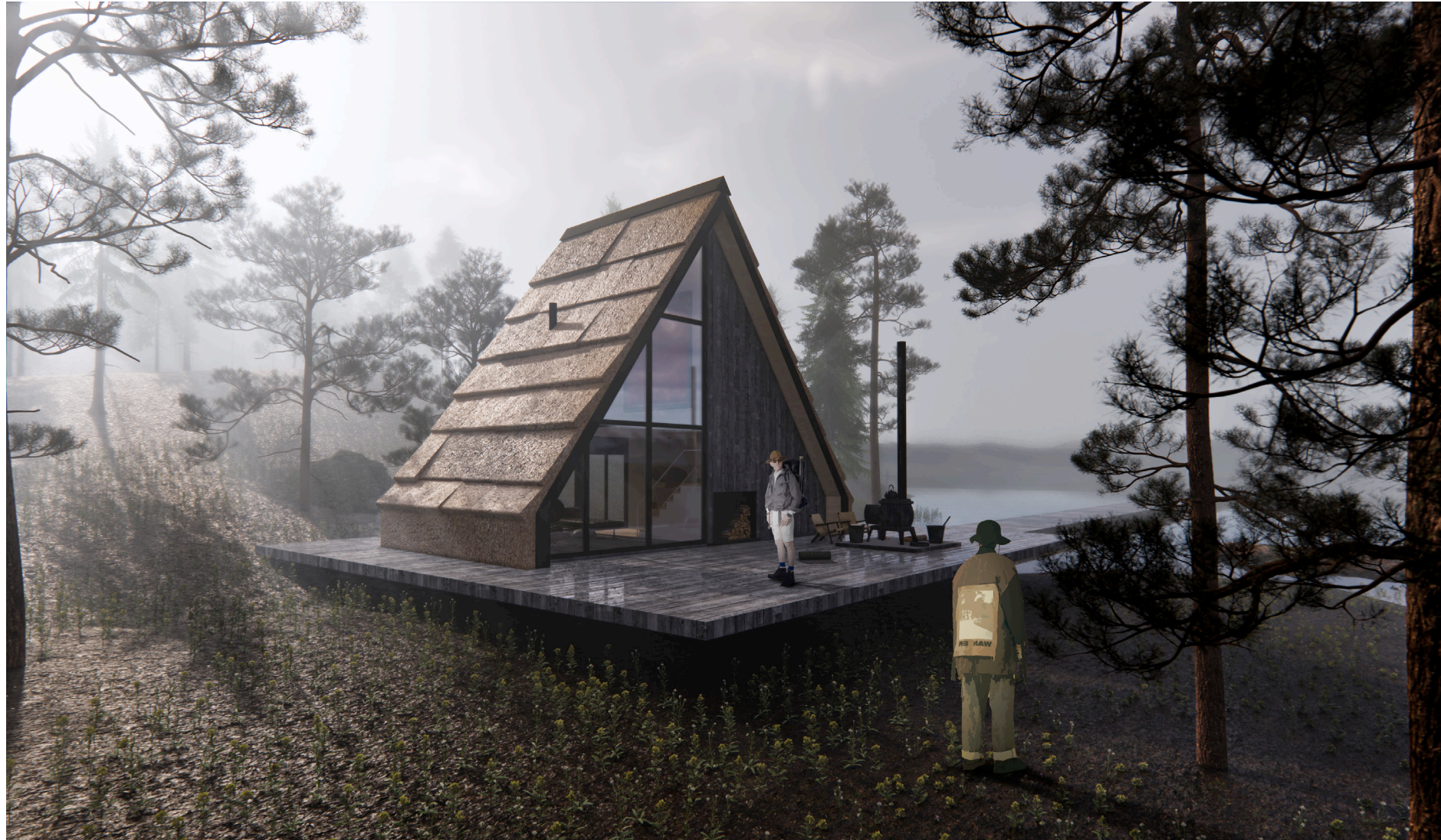
A-A Section



B-B Section

KOOCH M

The Medium Kooch product is the alternative example of this structure in order to achieve the larger scale foot print by its expansion. This product is a flexible option in terms of expansion in order to achieve the suitable performance based on demand. The medium kooch includes alternative materiality possibilities (interior and exterior) in order to achieve the best solution for client brief.







One of the most important features of this product is to preserve all of the characteristics of basic module and expansion of the floor area at the same time. While, the medium alternative appears to have an independent identity and unique spatial features of its own.



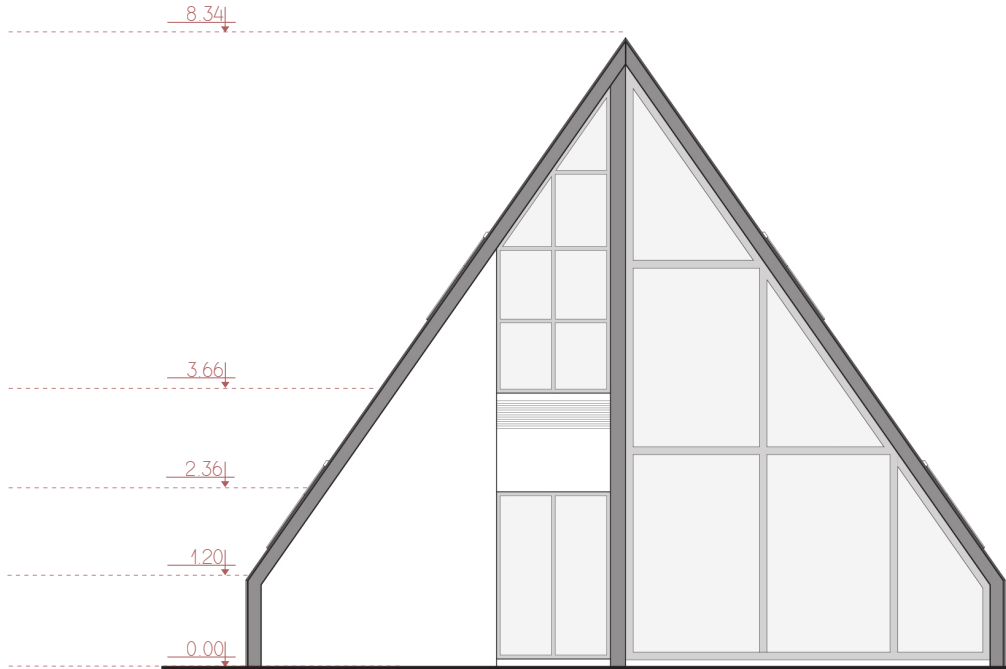




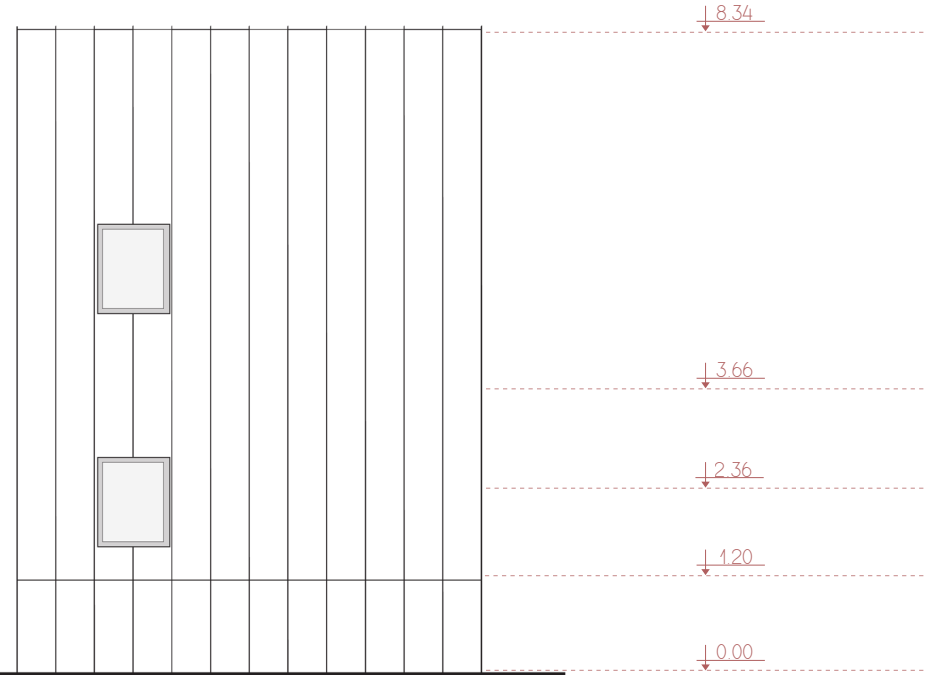


The interior space of medium Kooch product, proposes the double-height feature in its interior structure which correlates with the minimal approach and results in a unique sense of architecture in its simplest state.



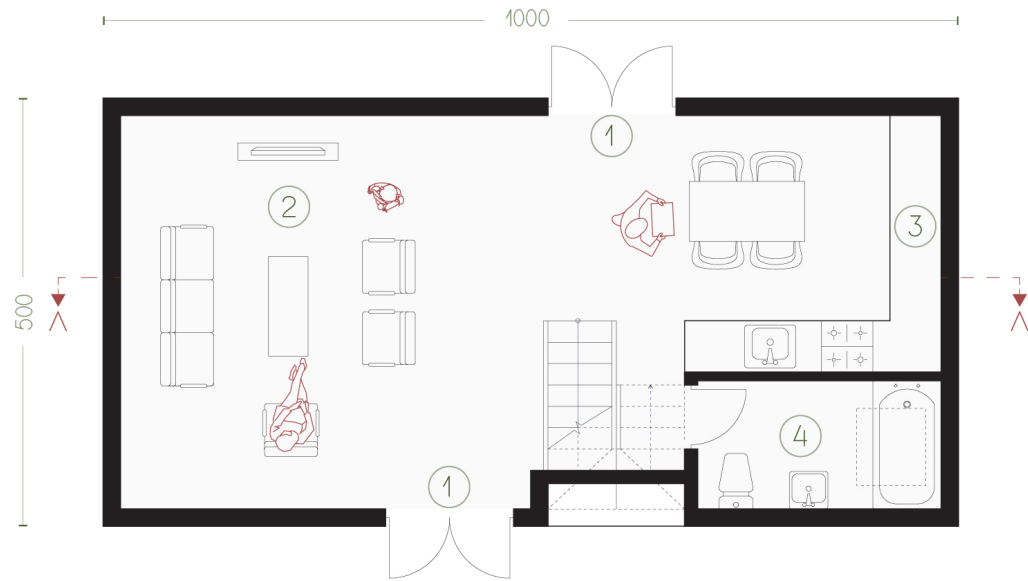


Front and Back Elevation



Left and Right Elevation

Ground Floor PPlan

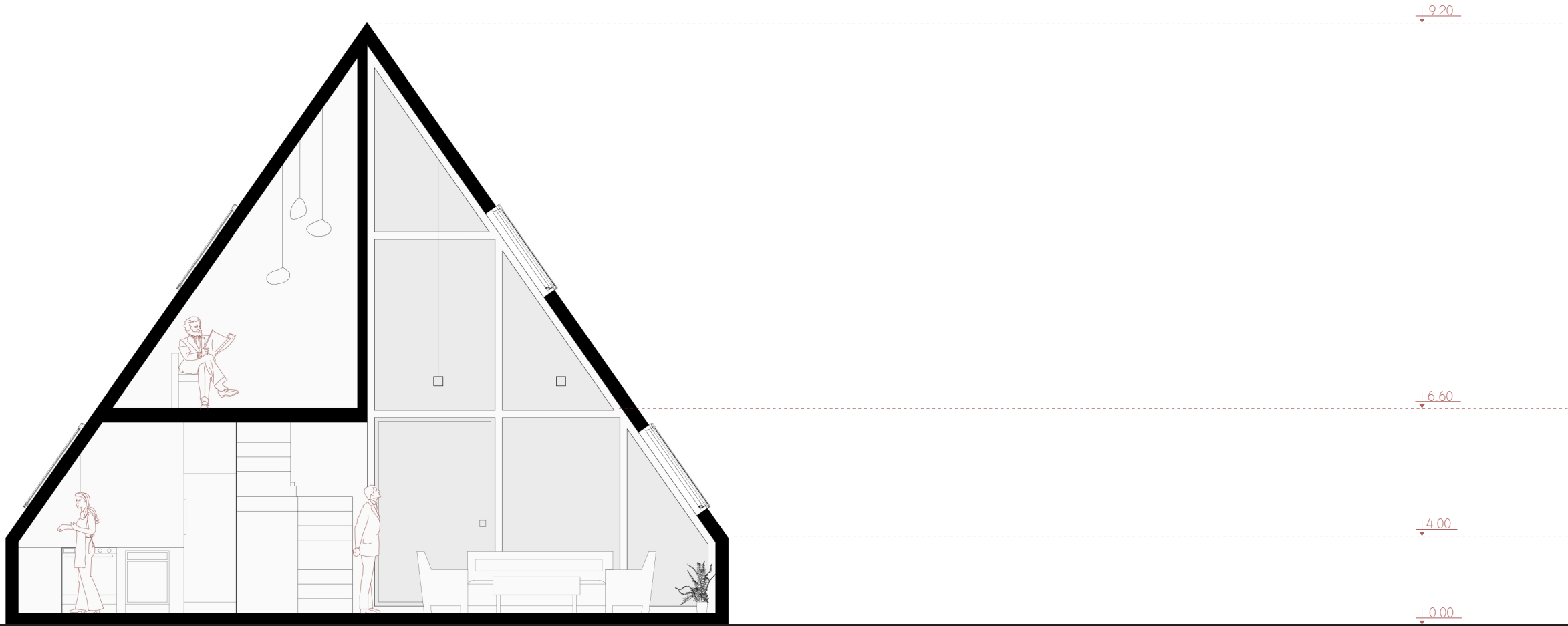


- ① Entrance
- ② Livingroom
- ③ Kitchen
- ④ Bathroom

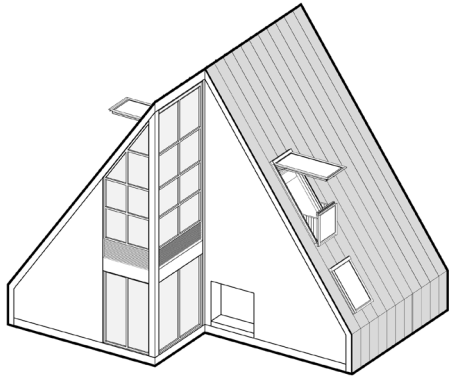
First Floor PPlan



- ⑤ Bedroom
- ⑥ Void

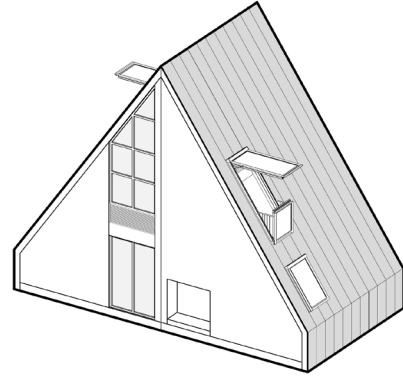


Λ-Λ Section

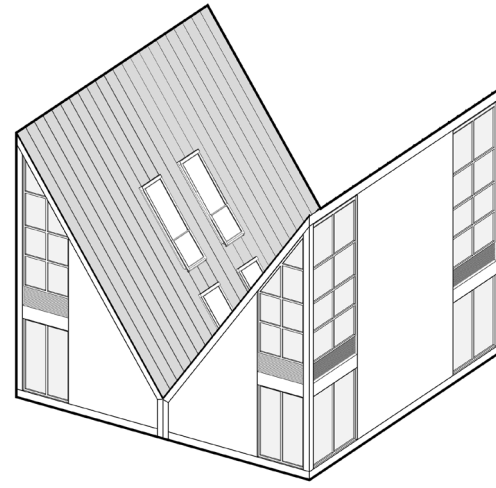


Medium Formation (Two-Units)

160 sqm

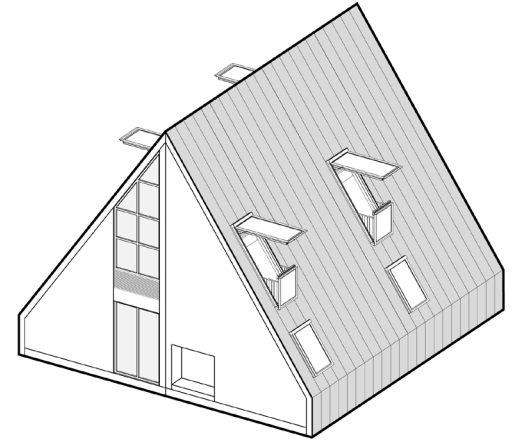


Medium Formation (Two-Units)



Large Formation (Four-Units)

80 sqm



Large Formation (Four-Units)

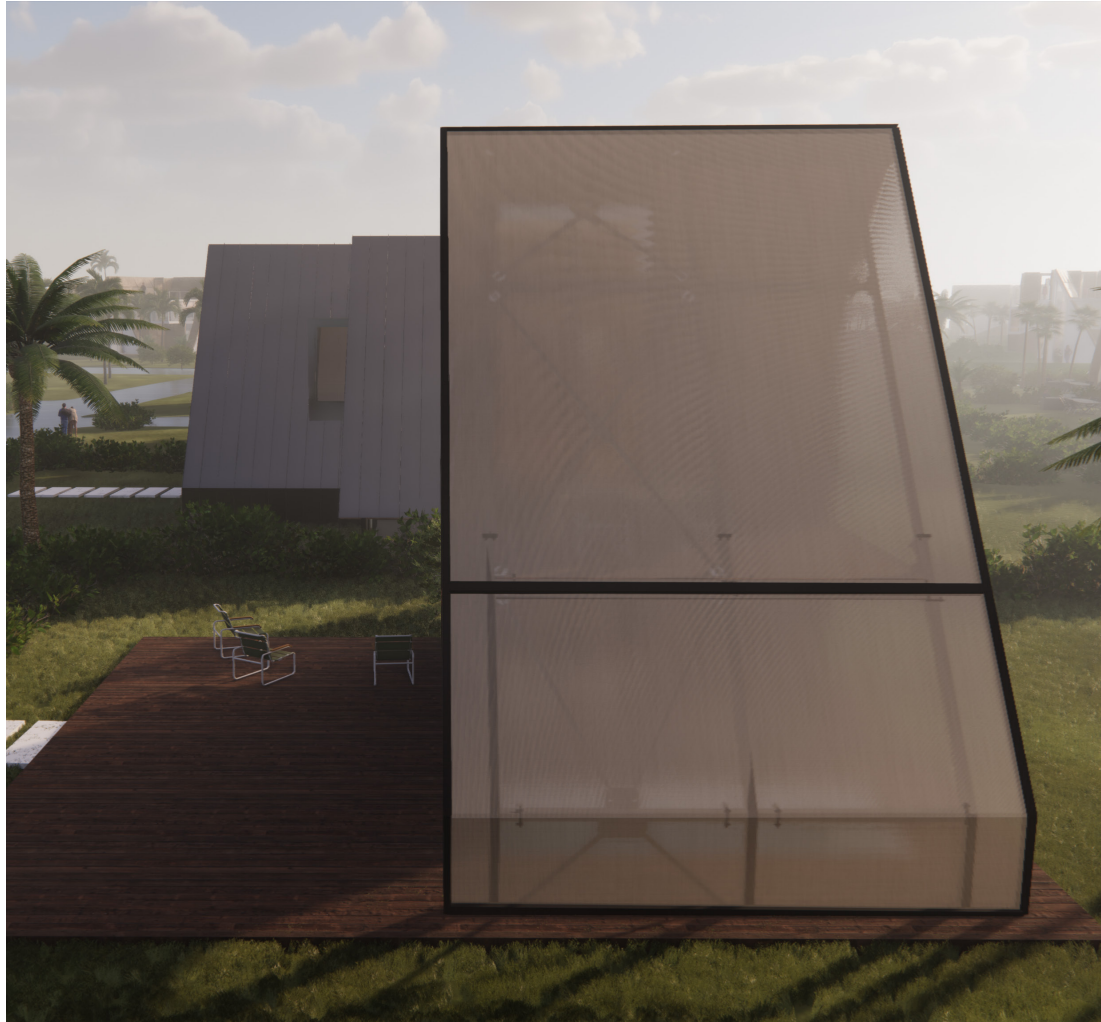
POOCH

Accessories

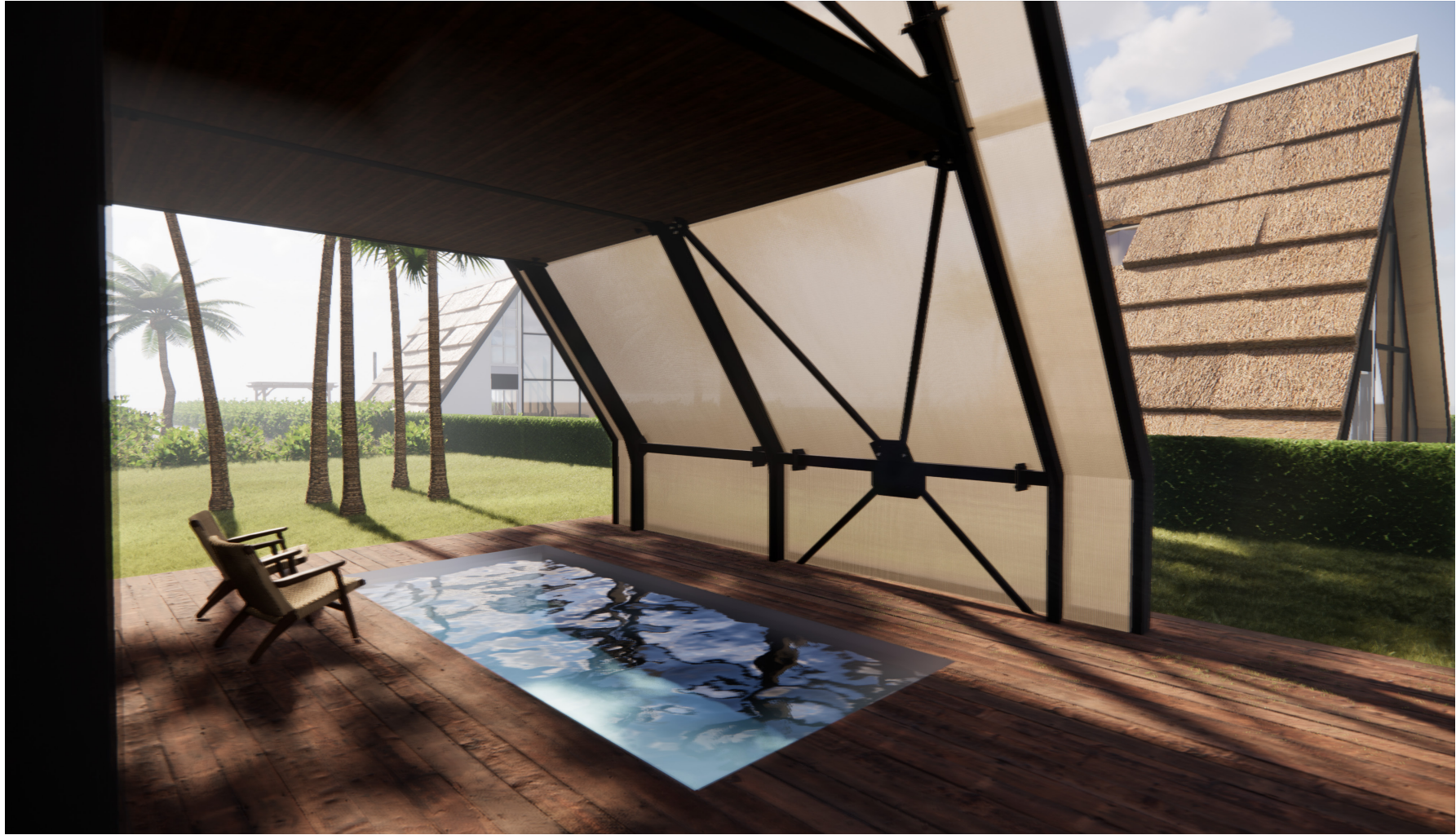
"Pooch" product is an example of accessories (side products) in Mana Gheshlaghs category. The formation process of this product was defined and designed in order to organize the negative spaces. The main idea is the emergence of space envelopes and light roofs for combination and flexibility in the formation of Mana Qashlagh products, which in the end result, is compatible with mana products and in function meets the diverse needs of users.







"Pooch" is a negative space with the ability of space expansion in the structure of Mana Gheslaghs and individually in external environment. The structure and determined materials of this product include light metal structures and tensile fabric structures (varies based on the climate) with the ability of connection to the main building and self-standing structure.





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