

Model project

Planning the winter utilization of a barn in Csíkdelne

Project team Hungary
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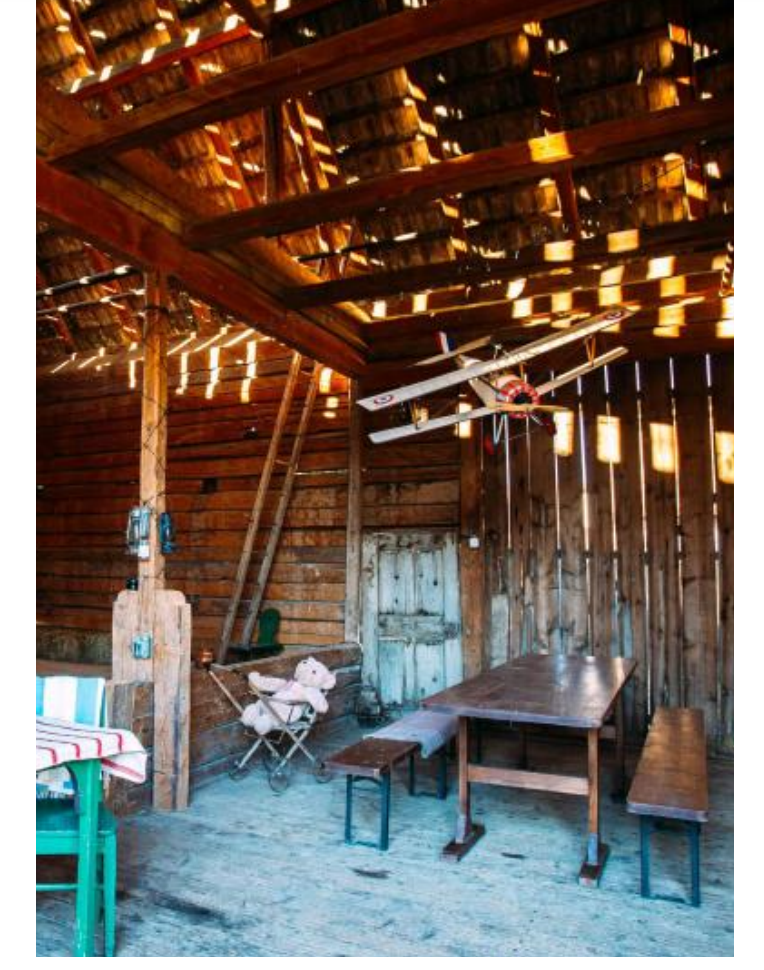
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"Architecture is an art that satisfies the most essential needs of social life."
Étienne-Louis Boullée

Concept

The goal is to design an economical, simple winterization system that preserves the local atmosphere and the values of the barn, and that can be easily constructed and dismantled. The existing 80m² room of the barn is currently a space with beamed walls and no ceiling - a place for community events. In addition to maintaining the barn atmosphere, taking into account the above technical requirements, we defined a few important principles.

- The closure should be made of a mobile structure, preferably using environmentally friendly, local materials
- The barn atmosphere is ensured by preserving the interior, here again primarily by not covering the beam walls
- The primary goal is to increase the airtightness so that the heated air does not "escape" from the building
- The thermal insulation must be designed on the outside of the structure, in a vapor-permeable manner, so that the existing building structures made of natural materials are not damaged due to the physical effects of the building.
- By creating a slab, the space to be heated/tempered can be greatly reduced, and the roof surface, which is difficult to seal and cools down better, is not part of winterization.

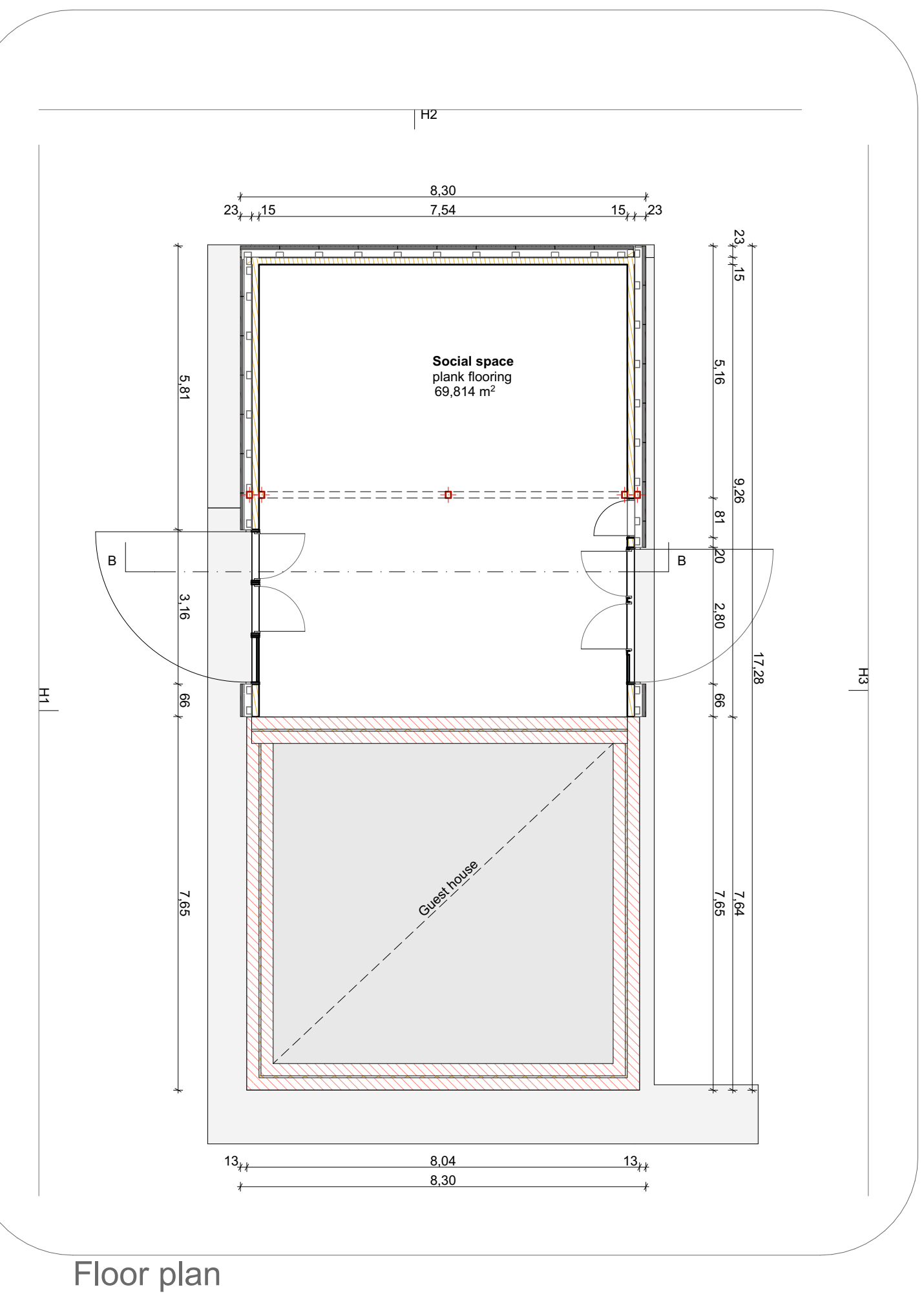
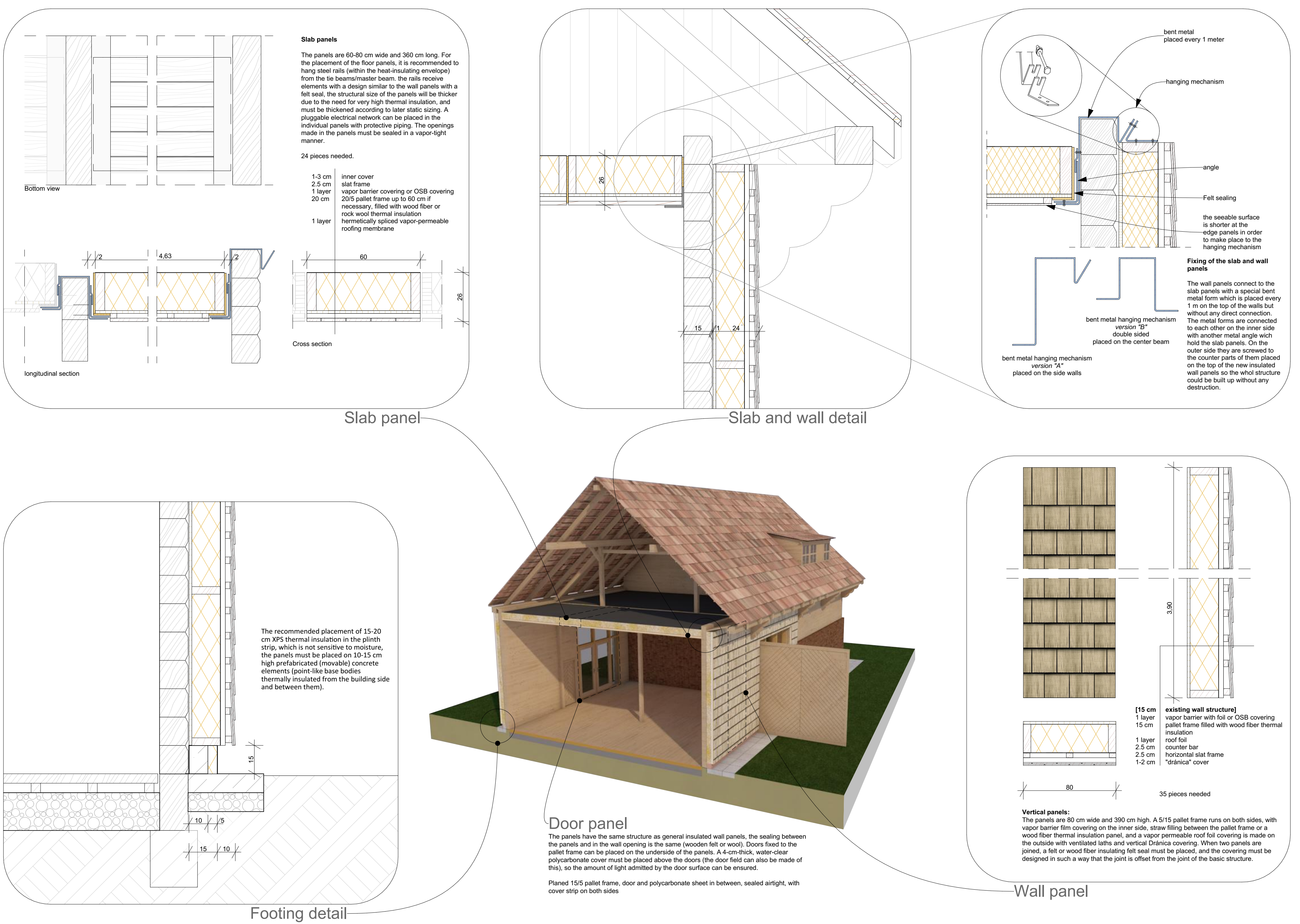


Structure

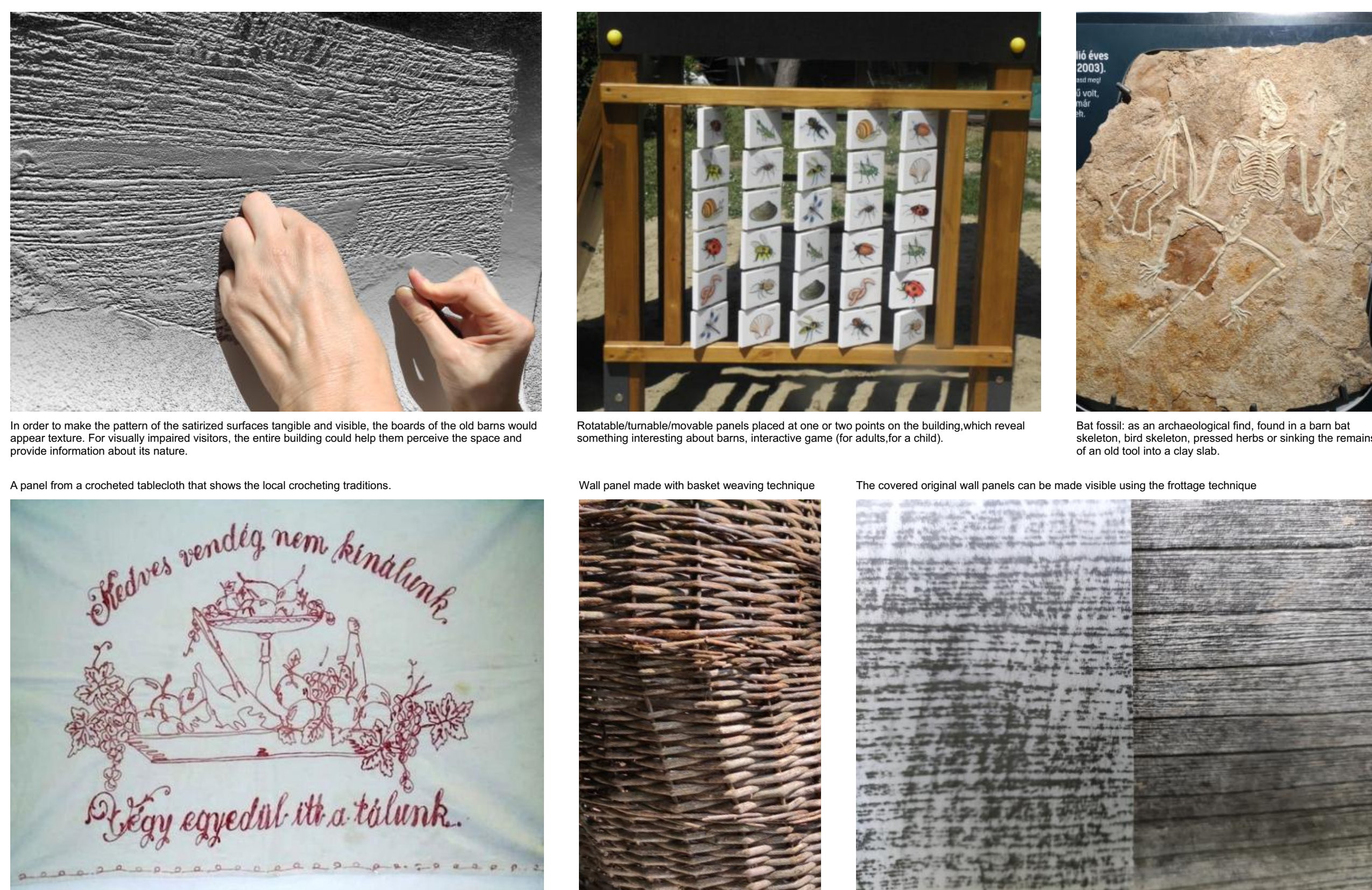
Based on the above, we have prepared a proposal that leaves the walls of the interior visible, and enables a uniform panel thermal insulation on the outside, enriching the local character, which can be built and dismantled quickly. In the interior, slab panels are made using the same principle and structure. The covering of the panels is made of different materials - natural materials allow the incorporation of local tradition and artistic ideas, the parts pierced with glass and polycarbonate allow the hidden structure of the barn to be seen and allow light to enter. In the huge gates, the structure is placed in the plane of the beam wall, thus not hindering the opening of the gates, giving the opportunity to create smaller, or even more, insulated, closed doors.

Elements of the system:

1. vertical, thermally insulated wall panels in full wall height
2. vertical wall panels for closing gates mainly with polycarbonate "glazing" and smaller door openings
3. interior water-colored slab panels and guide rail - with integrated glazing, lighting and ventilation options.



Recommendation from the artists



Mood and visualisation



Elevations

