

9. Compressed and polished clay mixed with straws

8. Structural tongue and groove wooden deck (155x30x3200)

7. Rafters (180x60x3200)

6. Supportive beams for the rafters (180x60x3200)

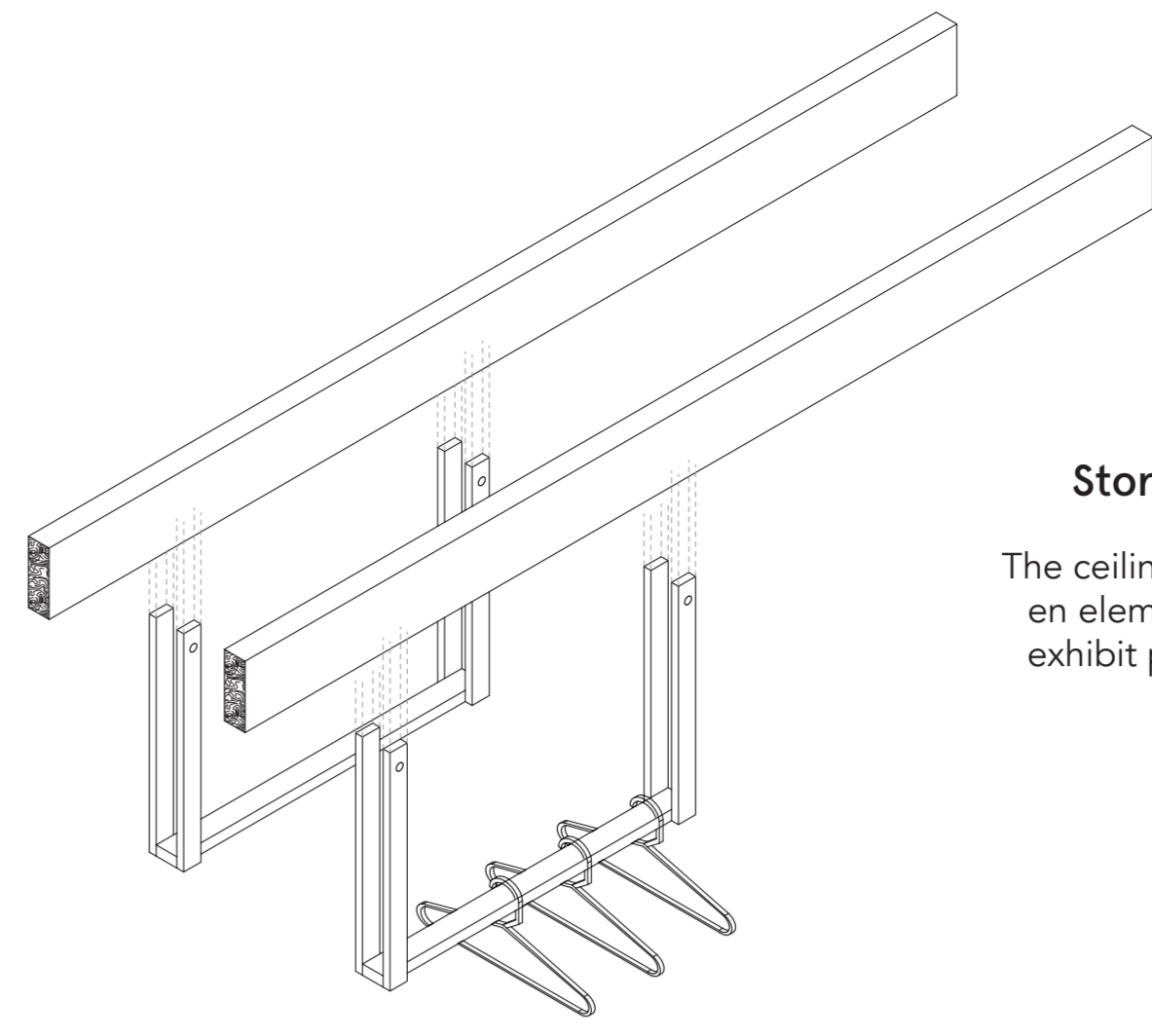
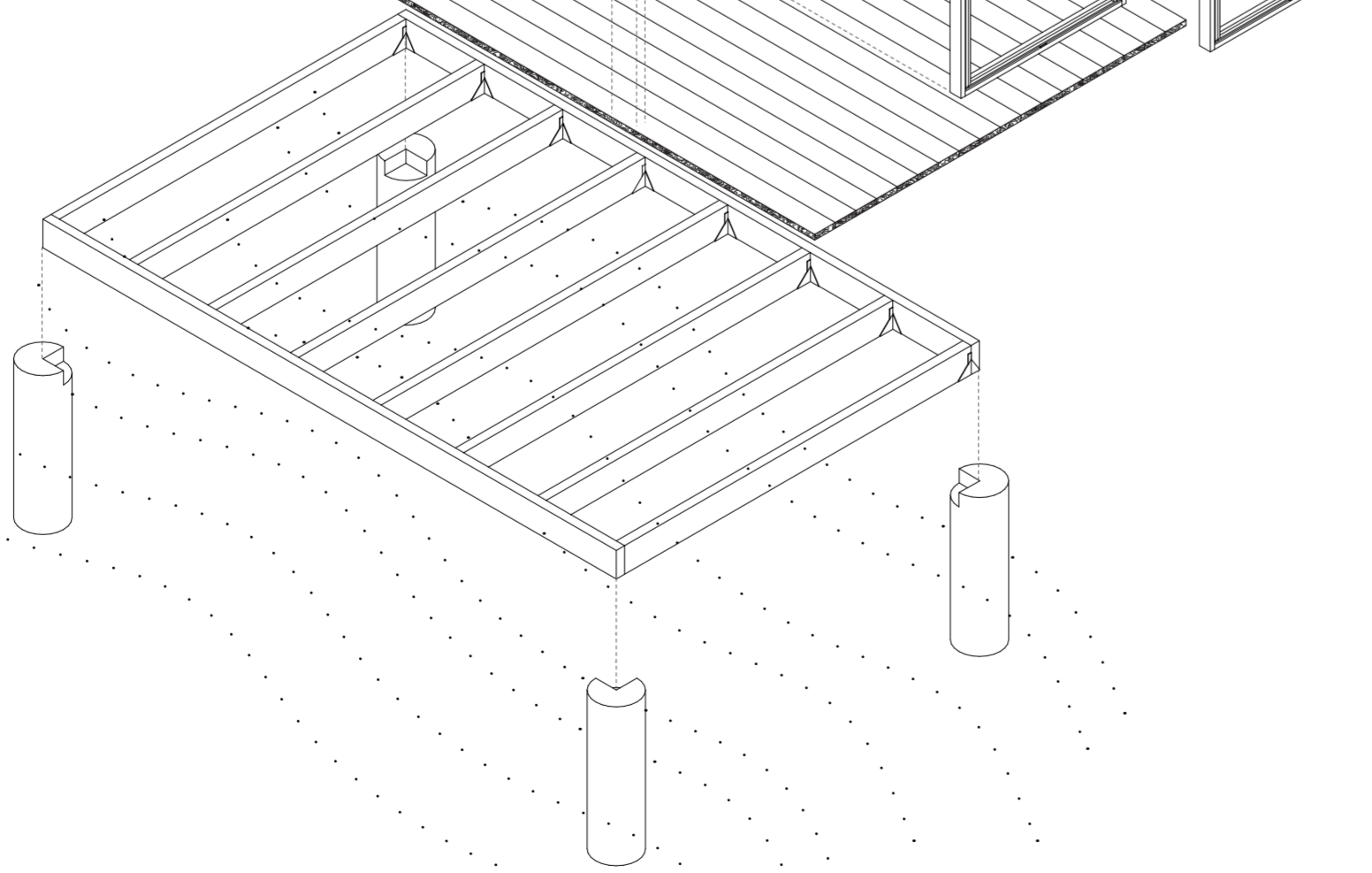
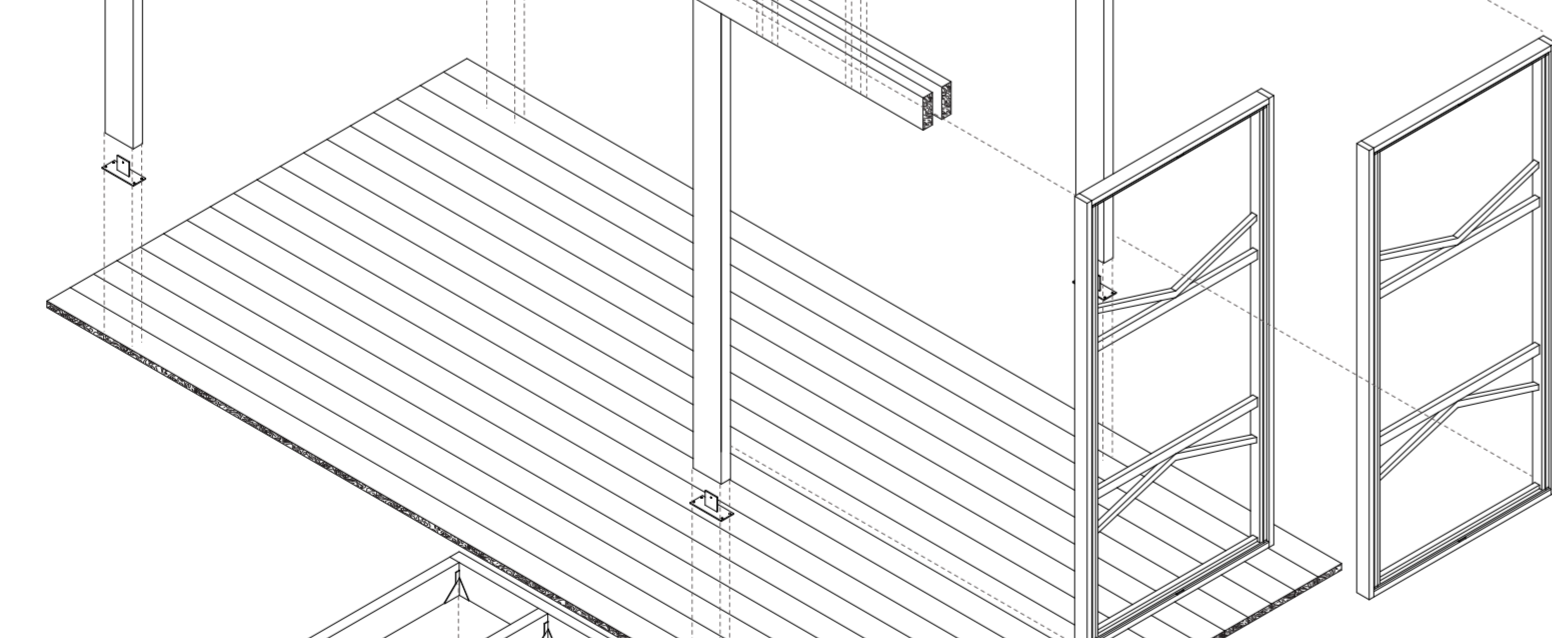
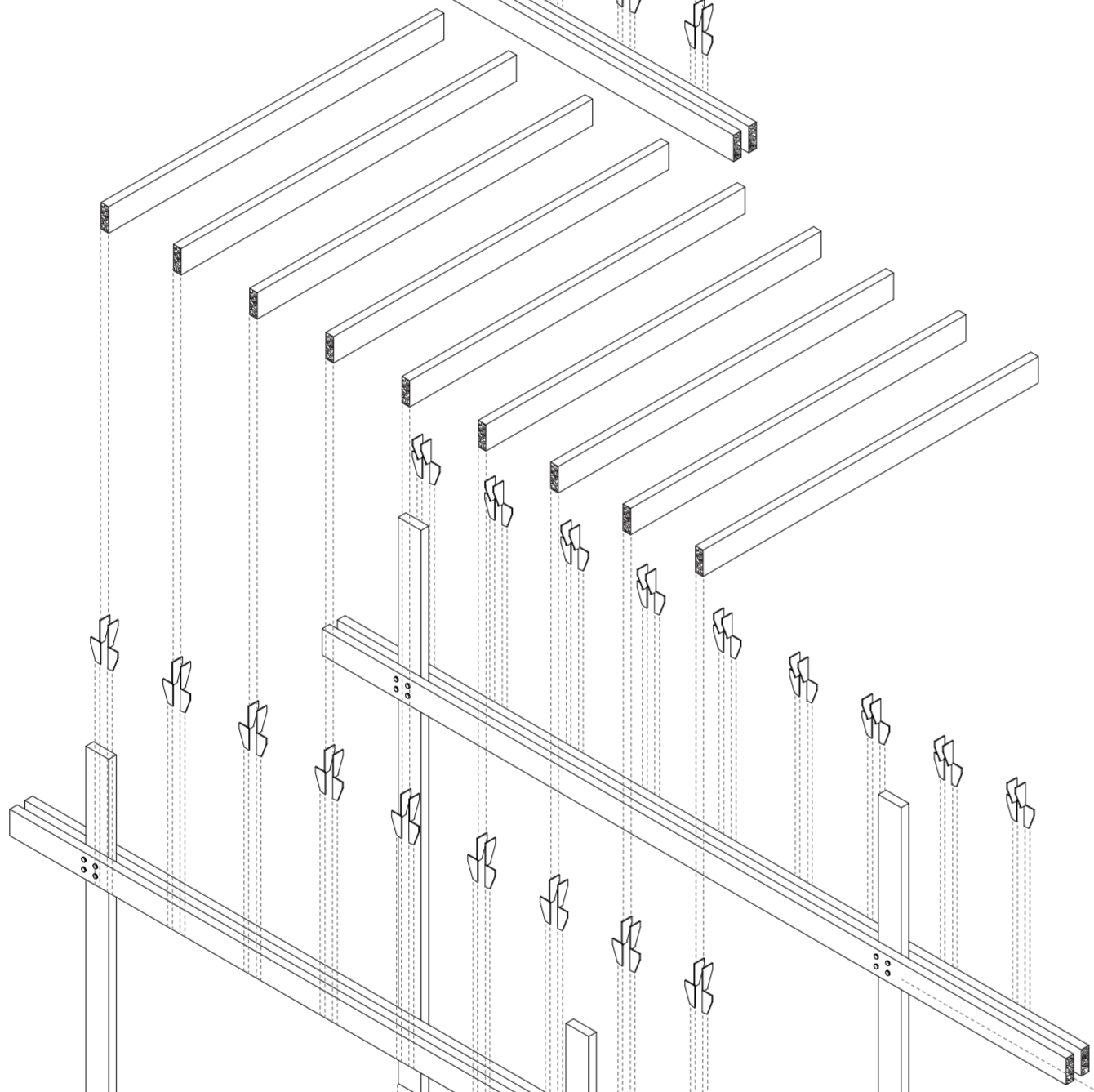
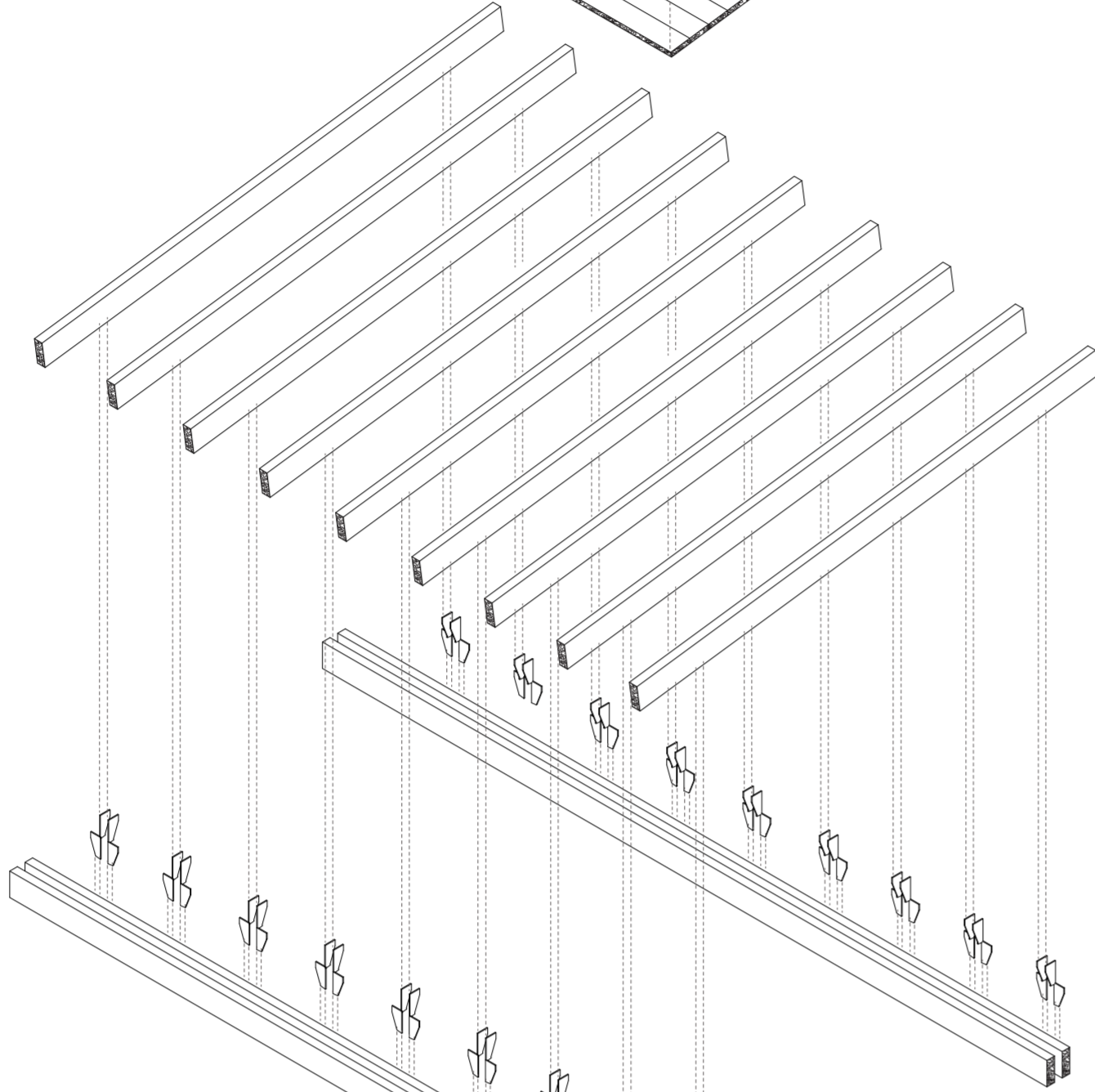
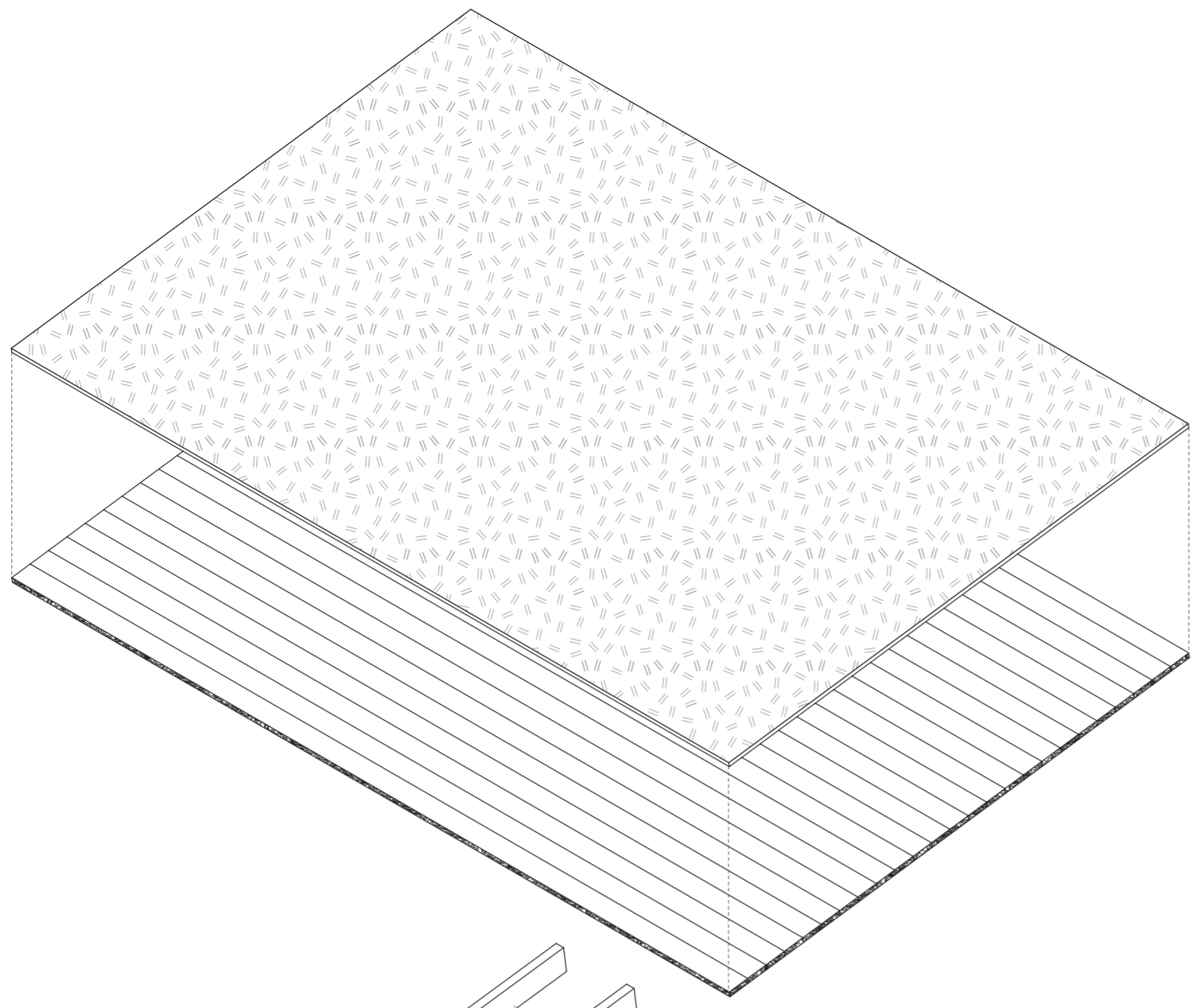
5. Structural ceiling joists (180x60x3200)

4. Structural columns and beams (180x60x3200)

3. Structural tongue and groove wooden deck (155x30x3200)

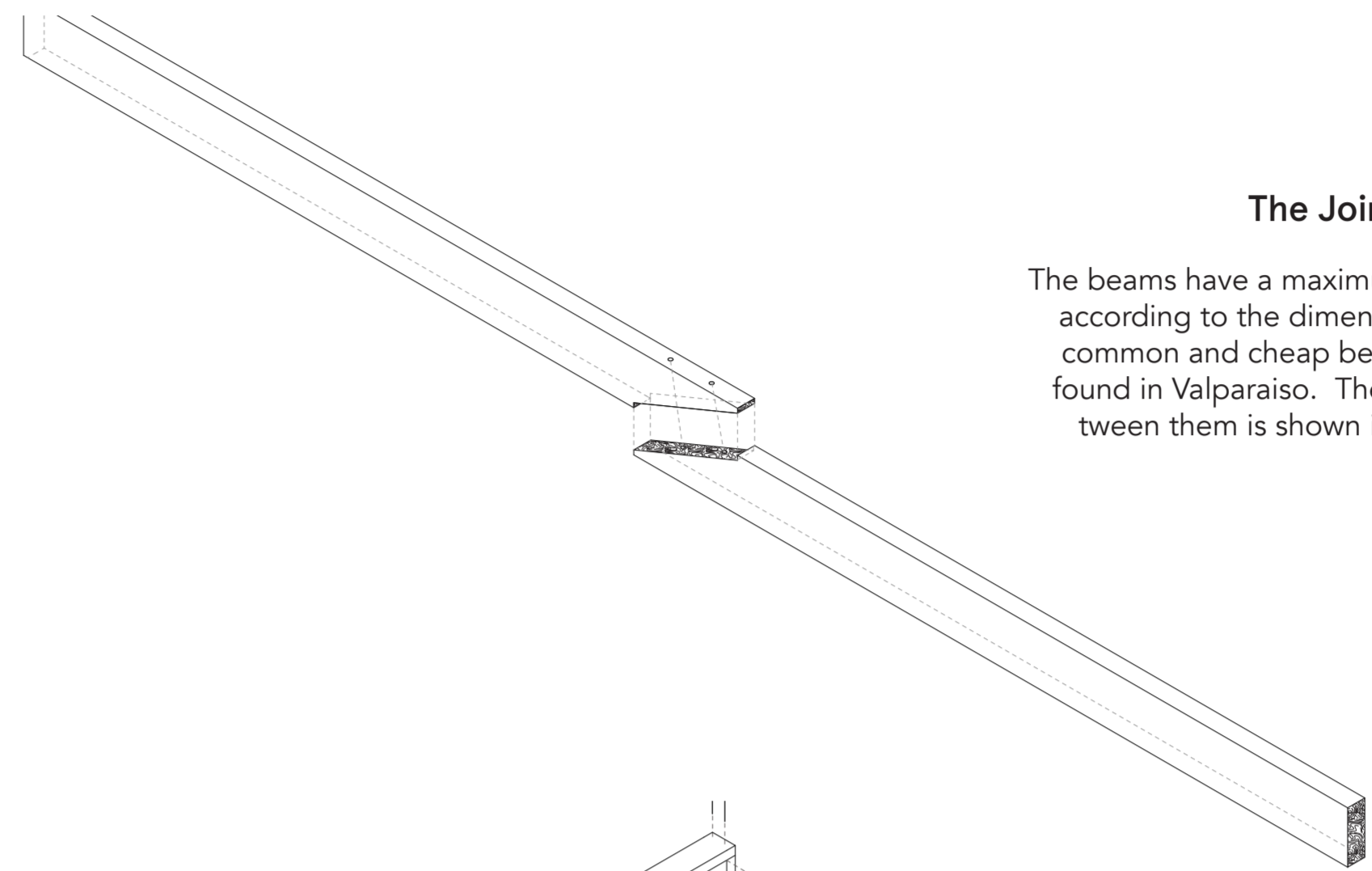
2. Wooden floor framing

1. Hardwood foundation poles



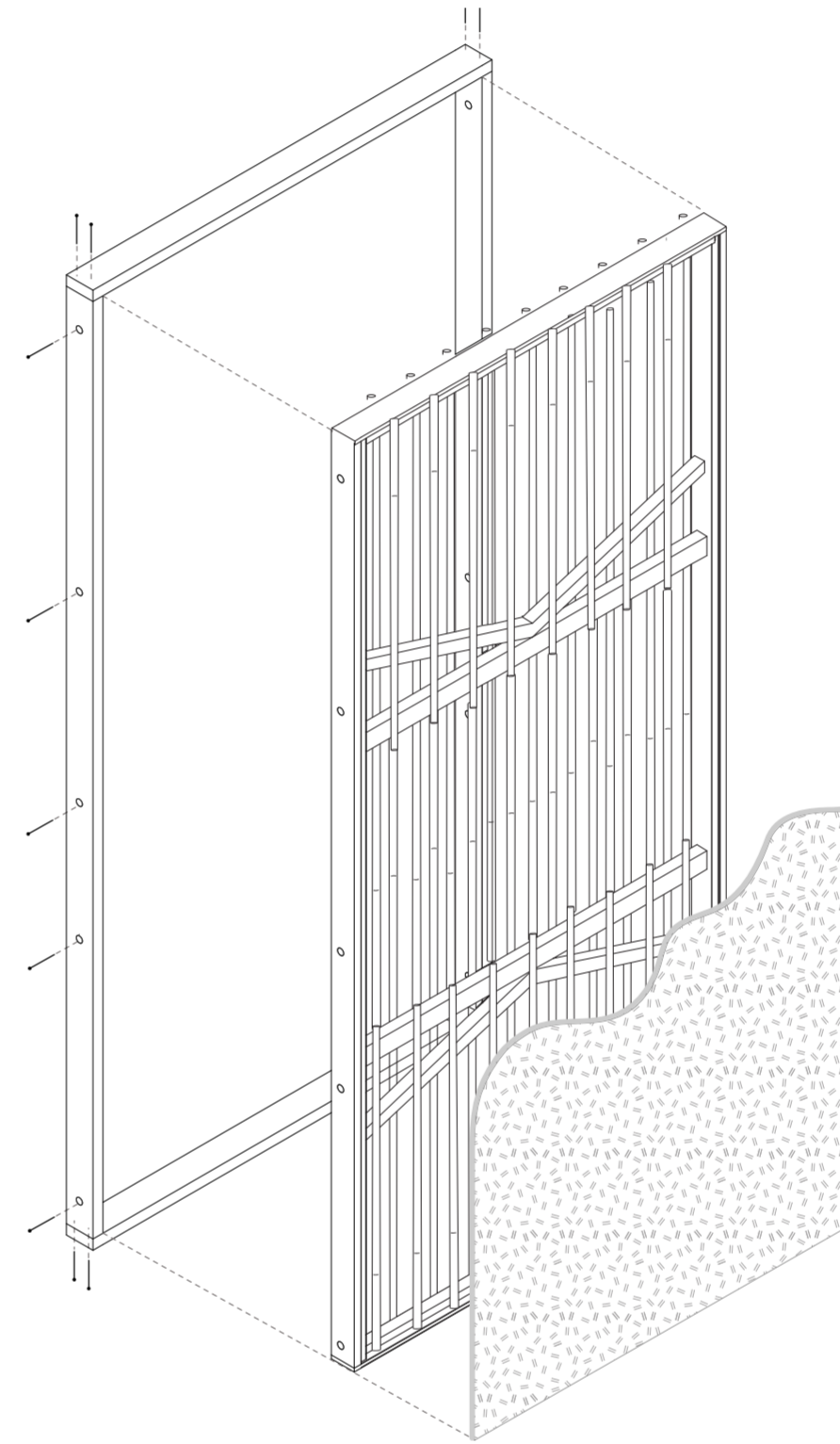
Storing and Exhibiting Beams

The ceiling joists are used to support wooden elements such as shelves to store and exhibit products, or even stairs in case of addition of another floor.



The Joint

The beams have a maximum span of 3.20m, according to the dimension of the most common and cheap beams that can be found in Valparaiso. The connection between them is shown in the drawing.

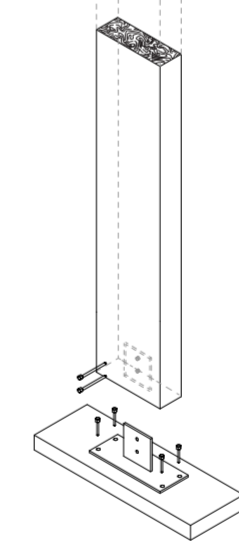


The Panel

Prefabricated wooden panels are composed by a fixed frame (screwed to the column) and a 'movable' frame (fixed to the other panel by nails).

Canes are manually intertwined with the movable frame (nails are not necessary).

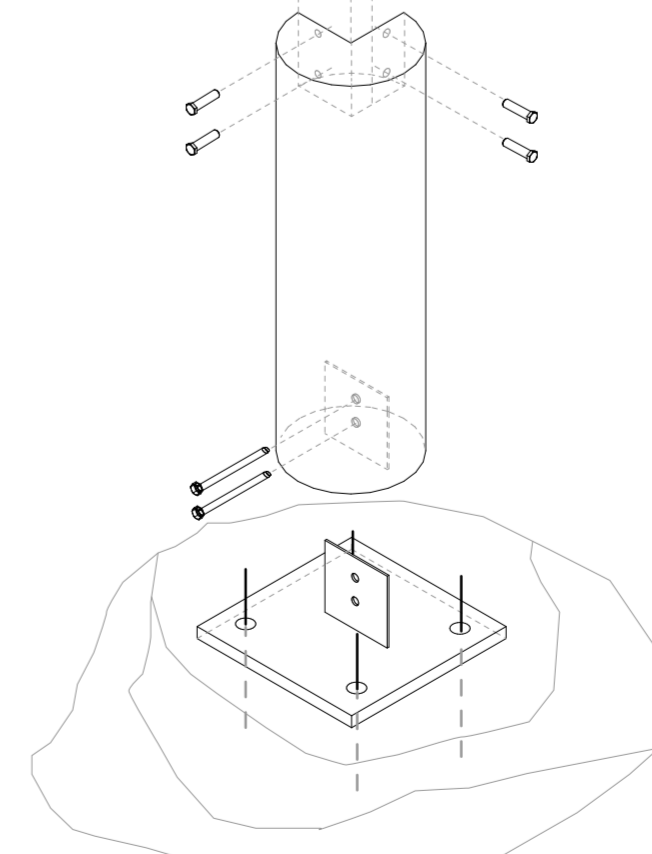
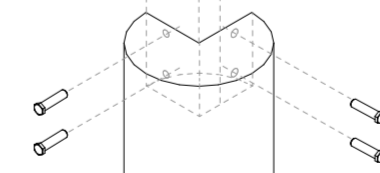
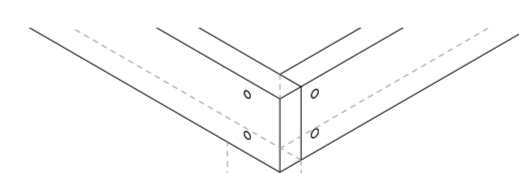
Two layers of barro (clay and straw) or other materials are finally added in situ.



The Columns

The columns can be connected to the wooden floor anywhere in the plan through steel plates.

This solution provides the flexibility to easily change the space configuration.



The Foundations

The elevated terraces are supported by hardwood poles connected to the rocks by steel plates.

After positioning the poles, these are cut according to the existing topography.

10. Prefabricated wooden panel, screwed to the columns (1200x60x2500)