



Arné Gunter



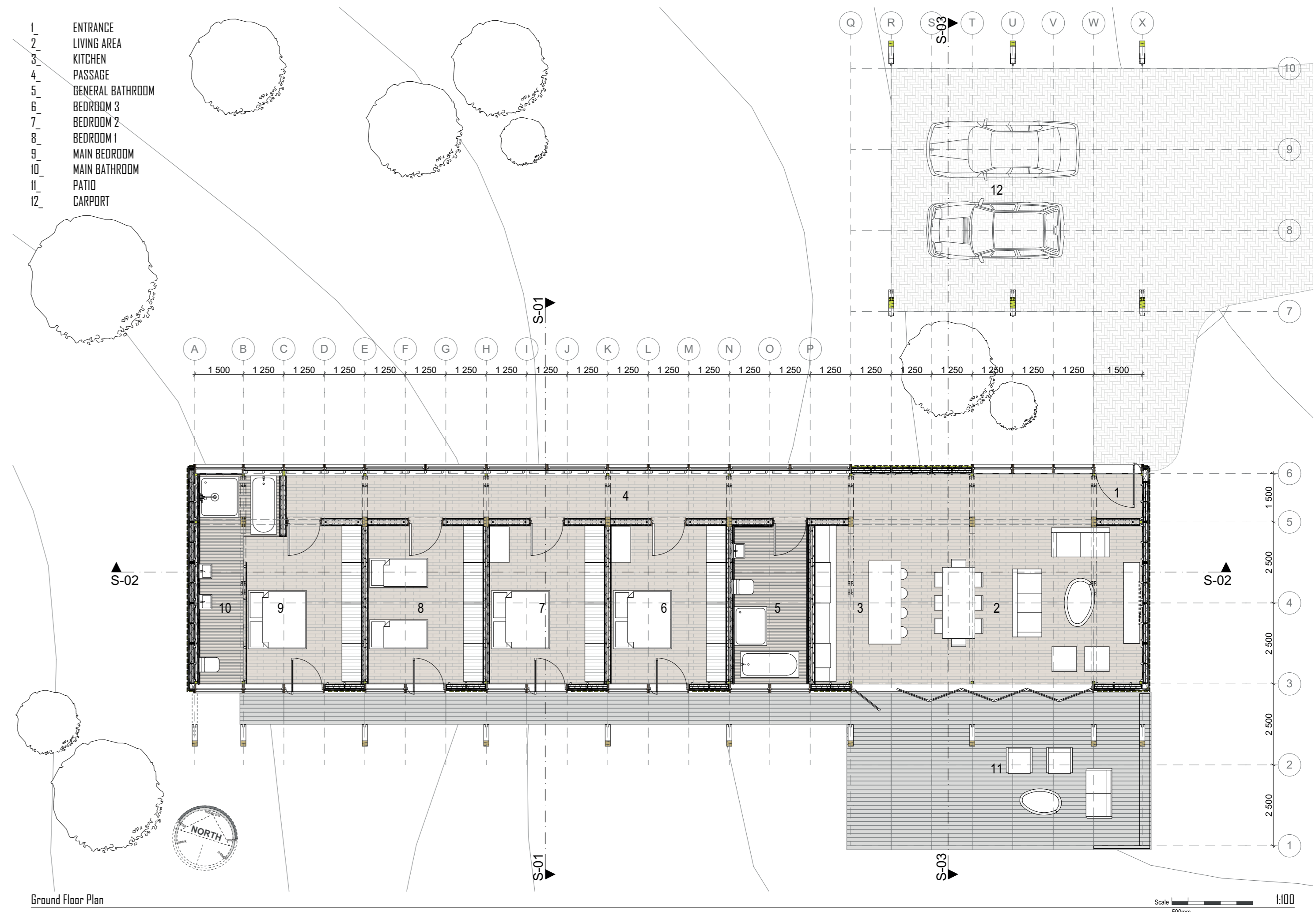
John and Amy's Timber Home

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John and Amy's Family:
 John, Amy and the kids are a typical South African family who love spending time doing activities together, whether it be braaiing or taking in nature around them. John and Amy have 2 kids, with a third on its way and are looking to build a new family home, a place where they can make a permanent residence which embraces the climate and surrounding environment. They have a limited budget and have decided they would rather spend a little more on a scenic location and complete the house in phases as they start building, expanding as they desire.

Design:
 The idea behind the design of John and Amy's family timber house was to build a home very much in the manner of how one would put together a meccano set. To be able to design something that has been pre-manufactured to precise detail which gets delivered to site and installed using either man power or small mechanical assistance. The reason behind this way of building is that components can be accurately and precisely manufactured off-site with minimal wastage and fewer construction glitches. The design also minimizes labour time and cost on site as components are installed upon delivery. As the house is made up of components, one can interchange parts with others either when they are damaged, undesired or can be easily reconfigured to add to future needs. The design can also be customized to allow the house to be built in any location due to off-site manufacturing and on-site assembly. The design makes use of modular components but also allows the client freedom to customize their home to their particular needs as elements just need be rearranged to create different spaces.

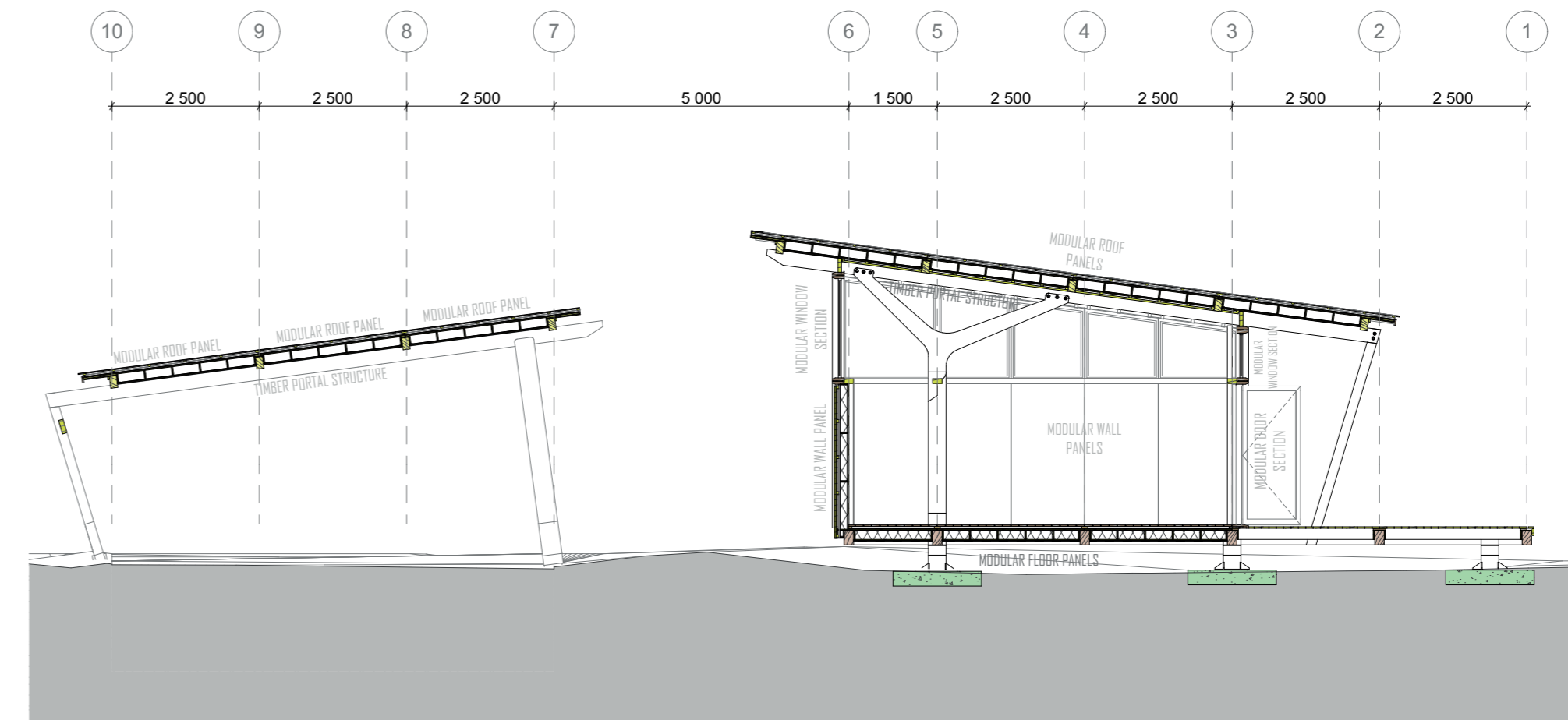
The idea of this type of construction is to use smaller elements which can be easily manoeuvred by either hand / telehändler / exo-skeletons suits (future tech). The elements are so designed that they are pre-finished or close to completely finished so as to make the installation faster as the finishing stage of a project takes up most of the time and costs.





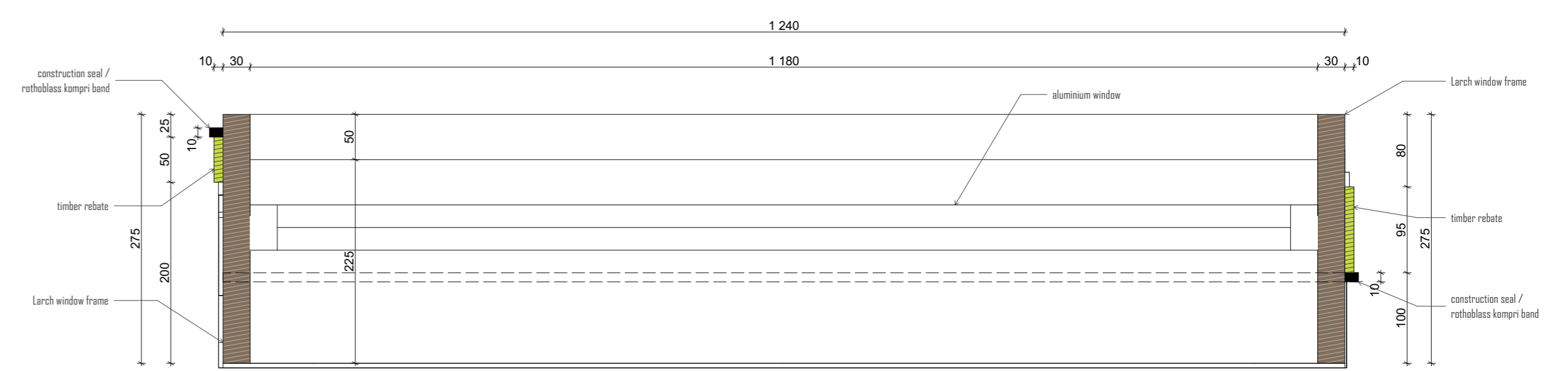
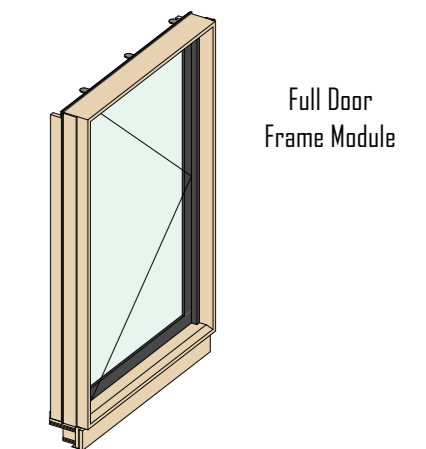
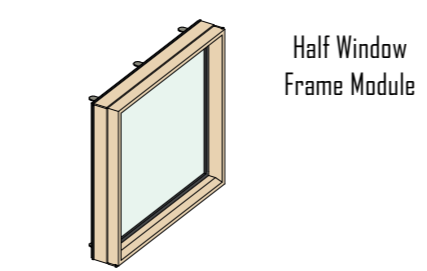
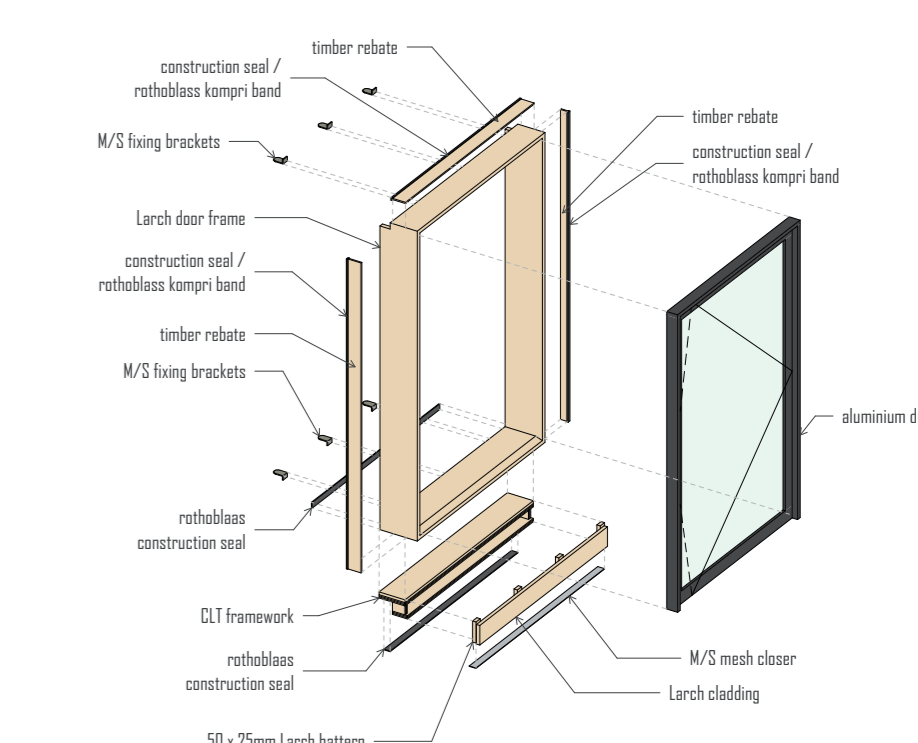
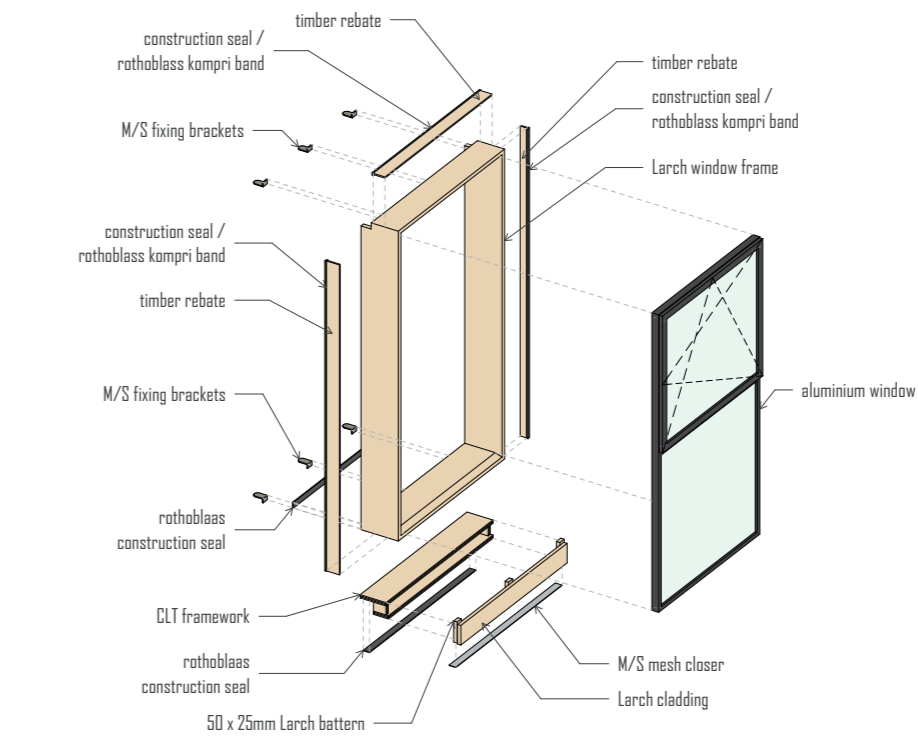
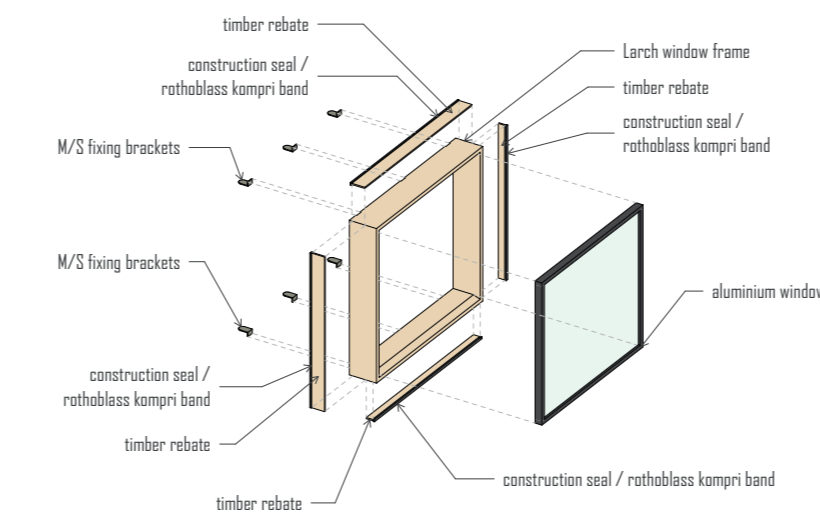
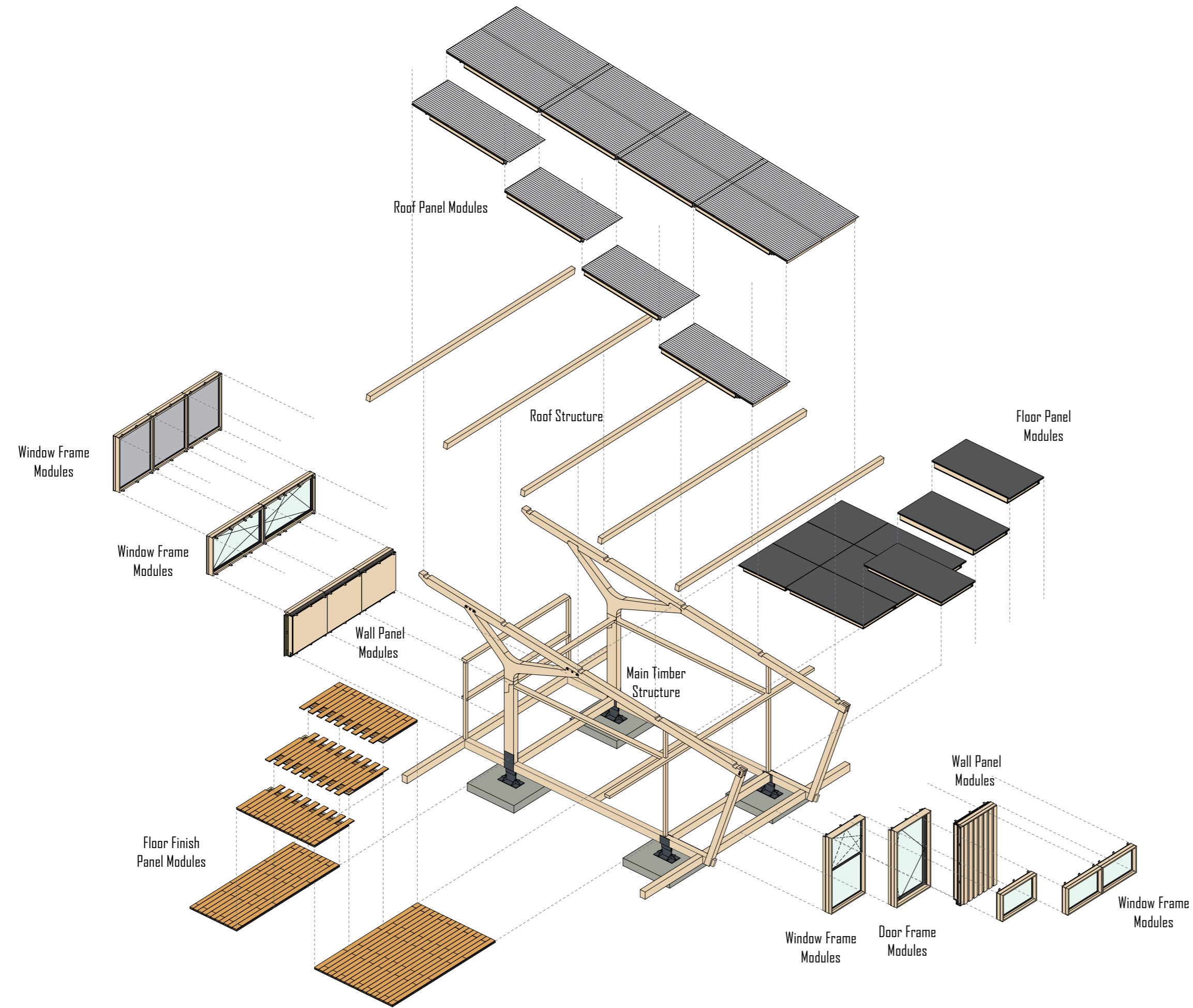
Building Section S-02

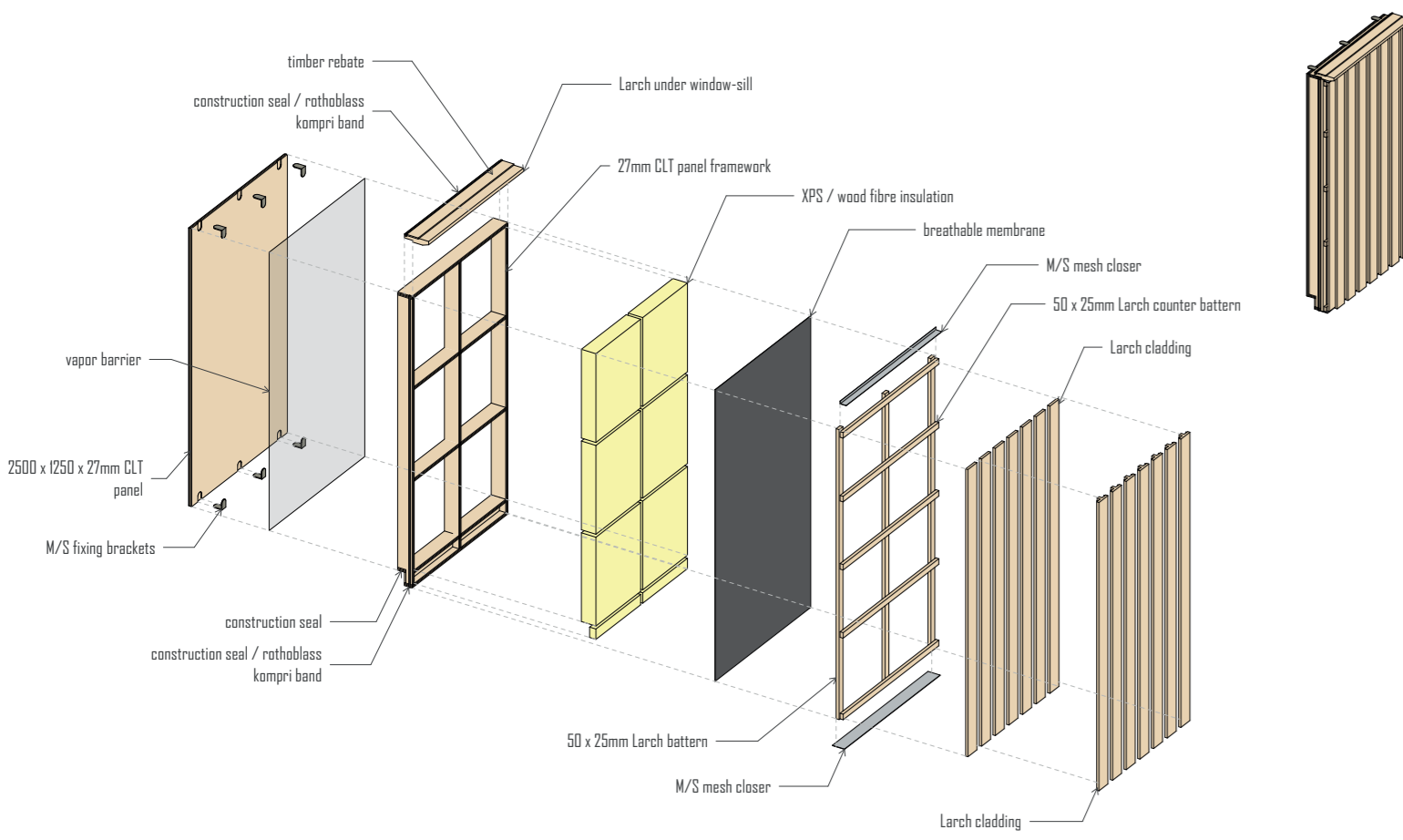
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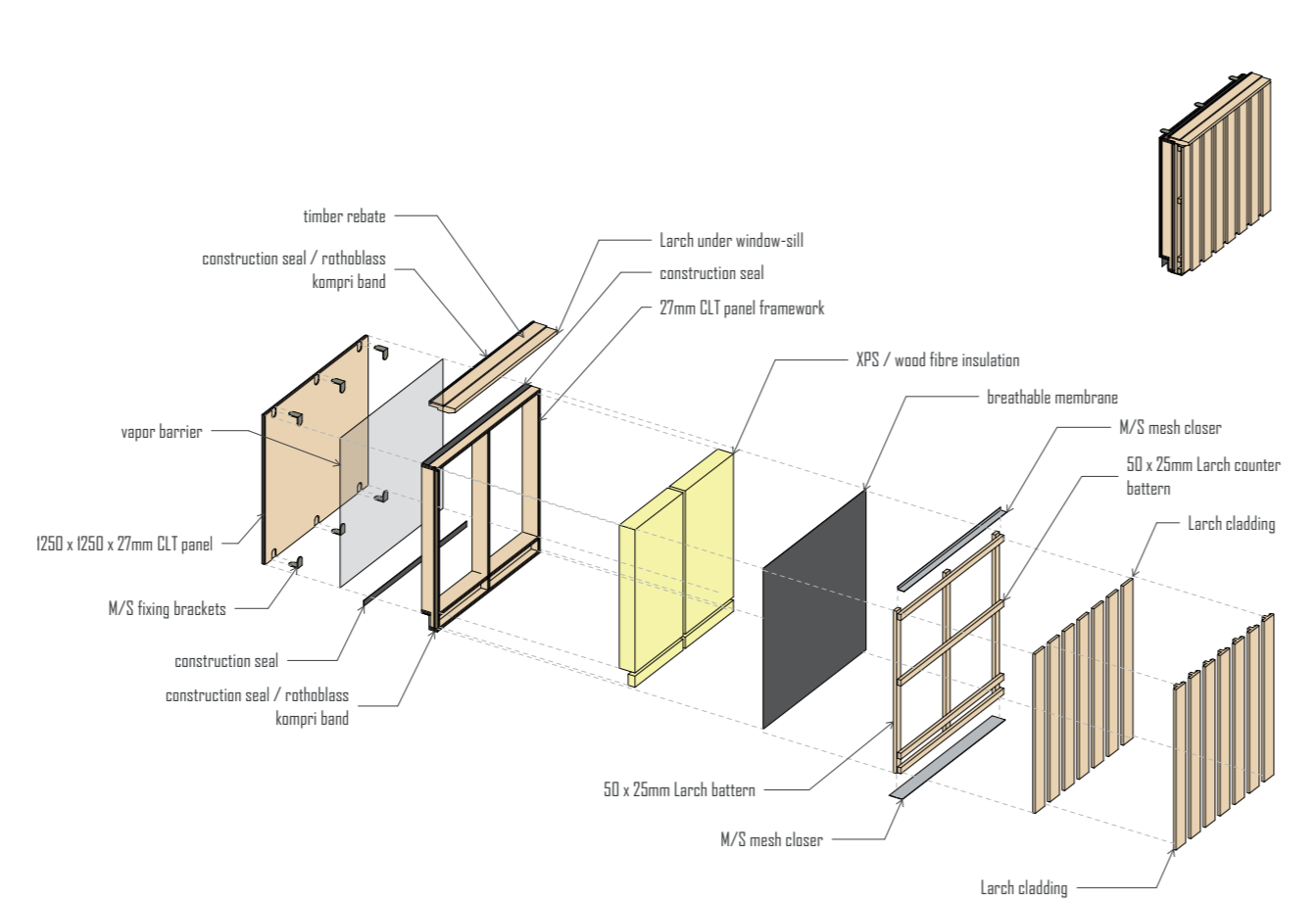
Building Section S-03

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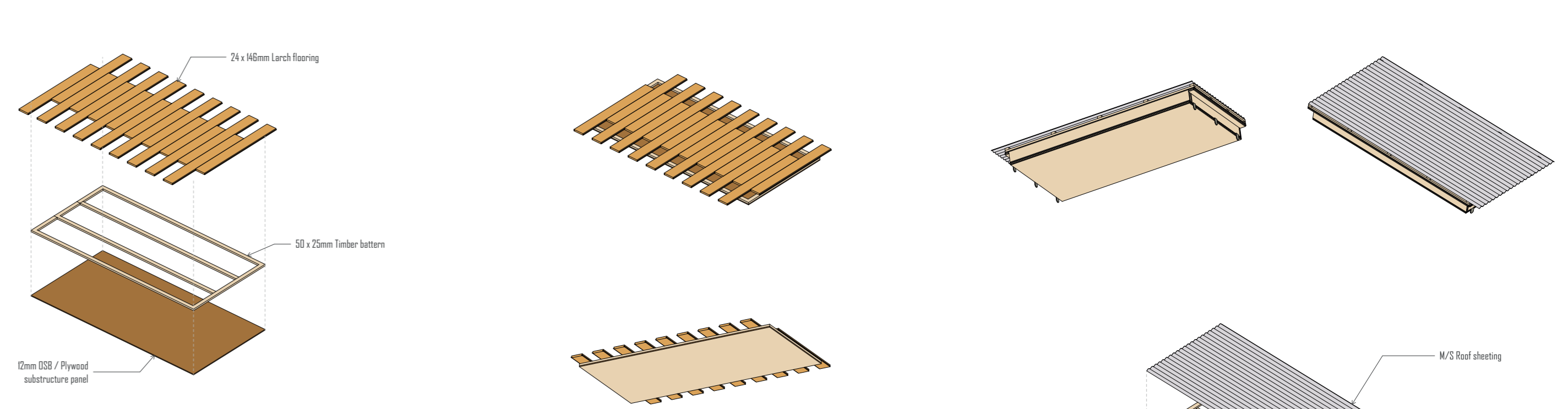




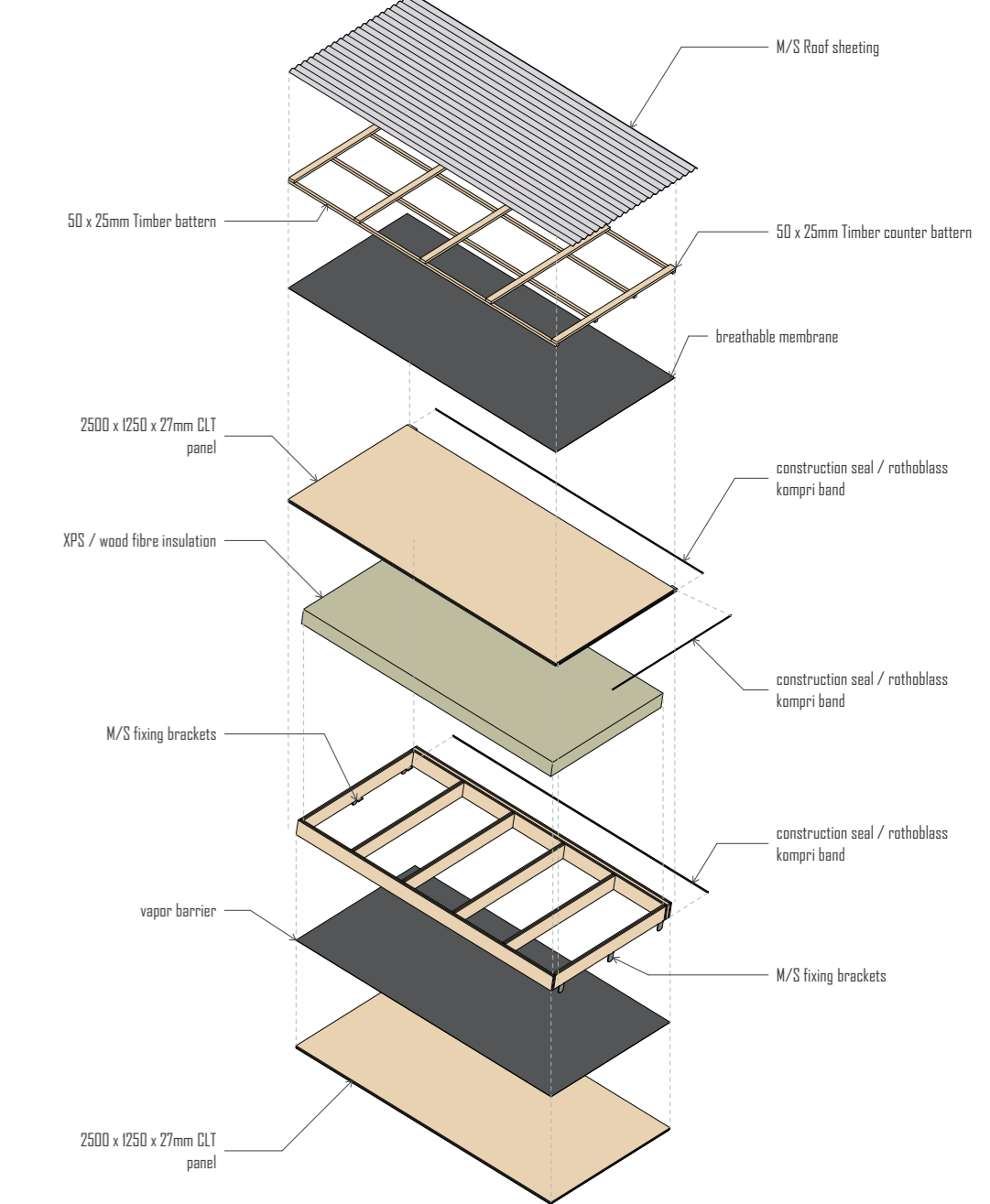
Full Wall Panel Module



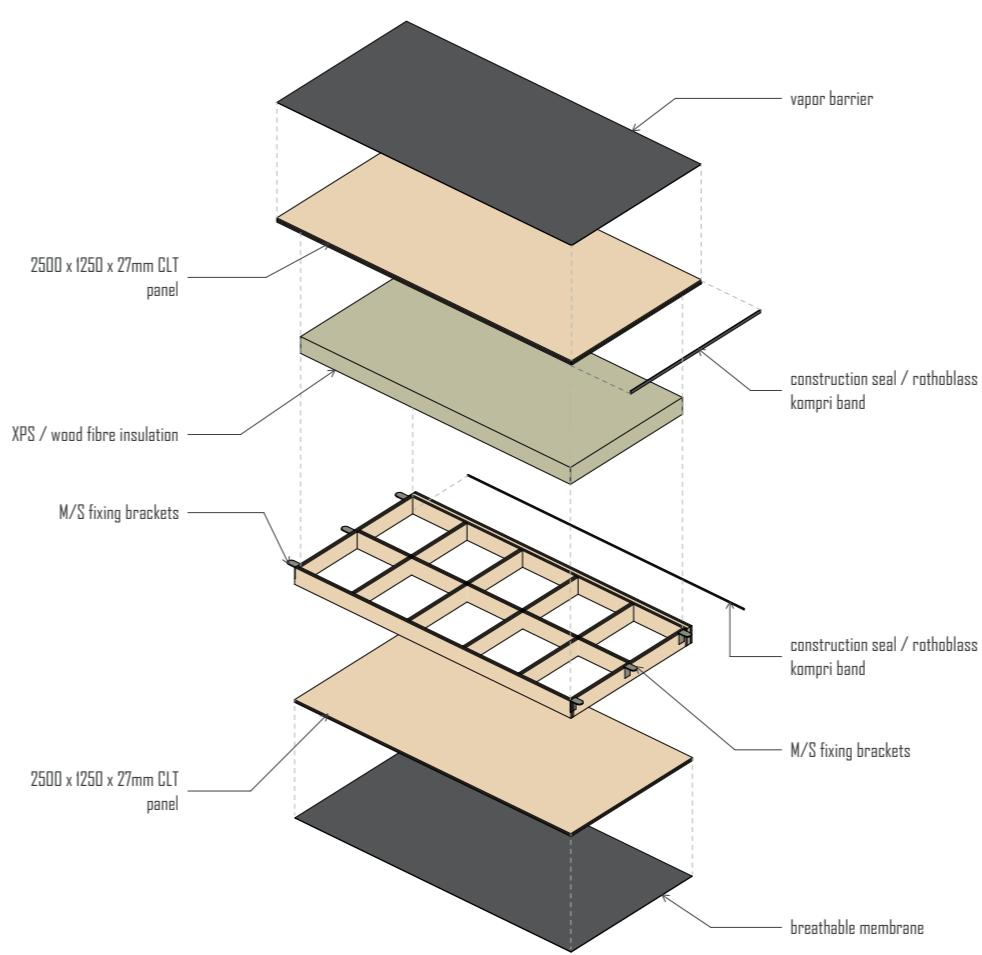
Half Wall Panel Module



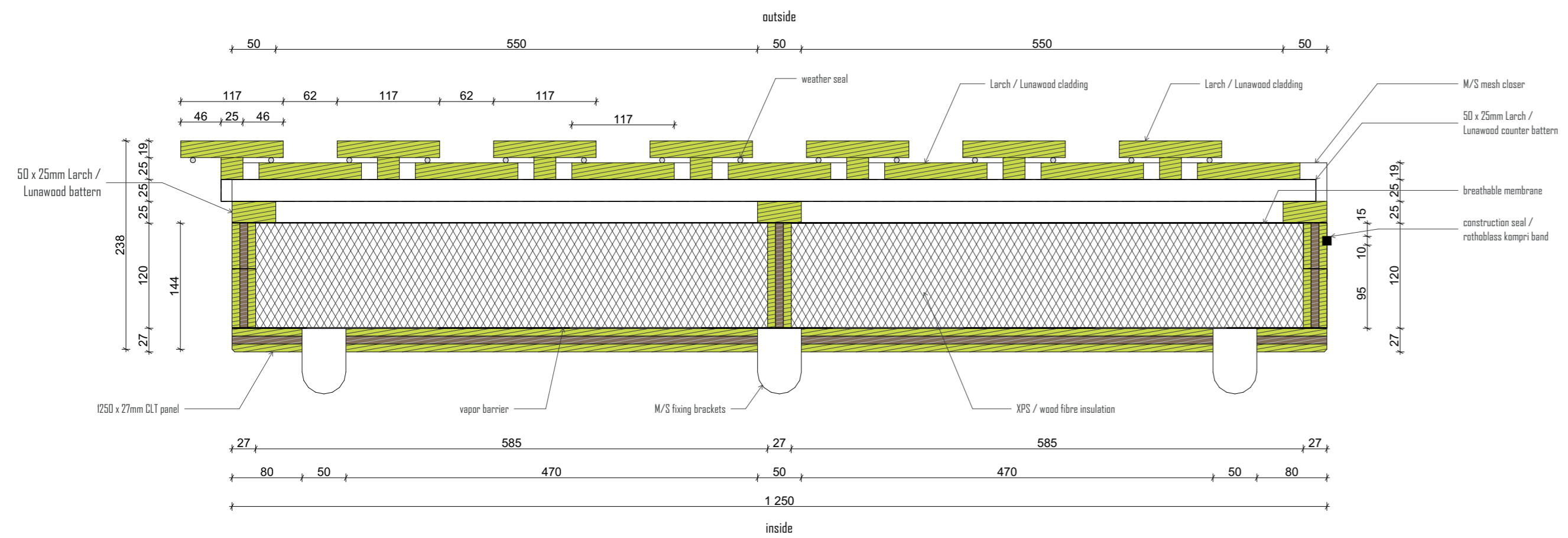
Floor Finish Panel Module



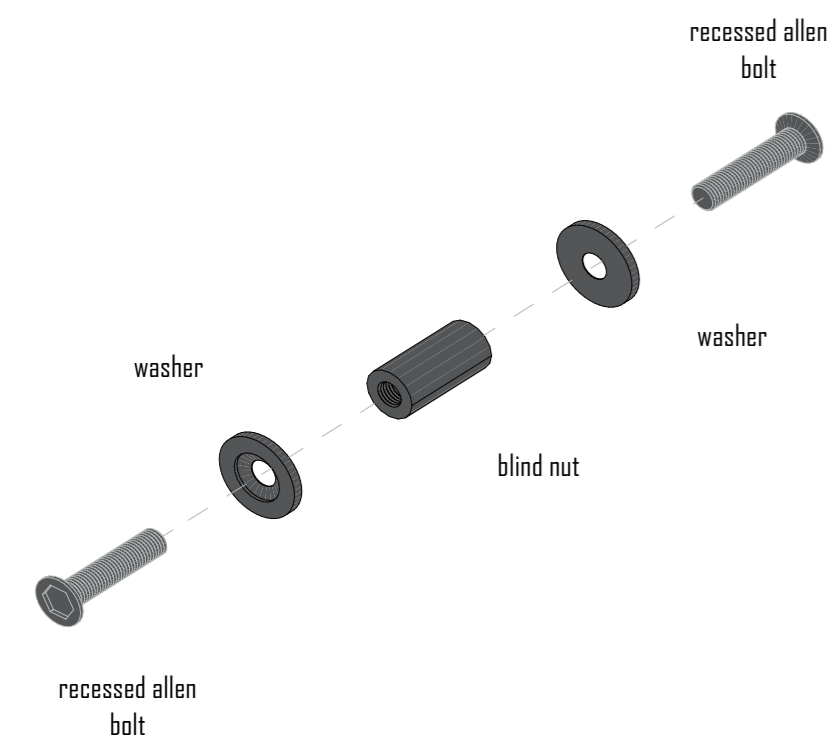
Roof Structure Panel Module



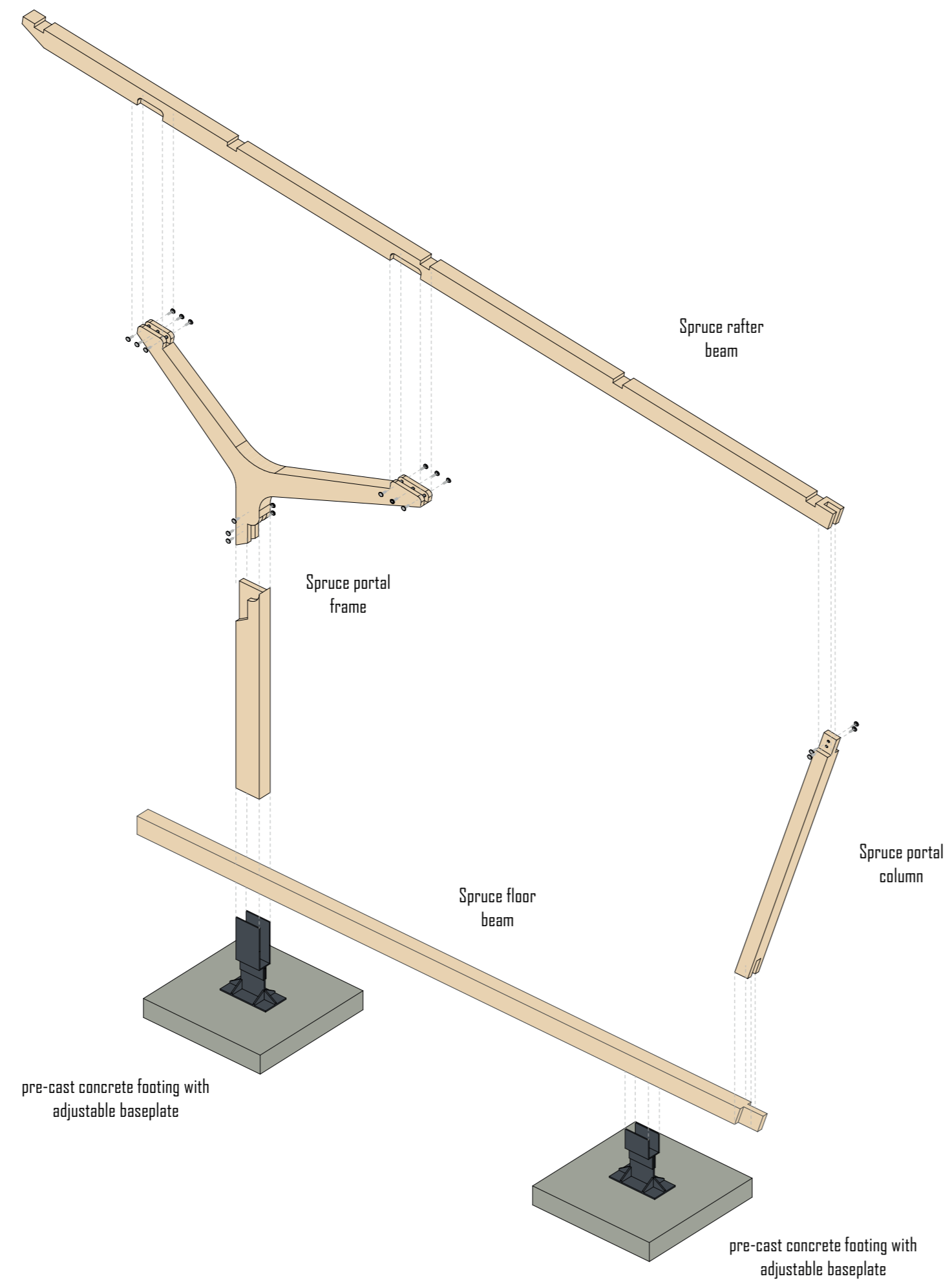
Floor Structure Panel Module



Typical Wall Panel Module Plan



High Tensile Blind Nut Assembly



Timber Portal Structure Assembly





