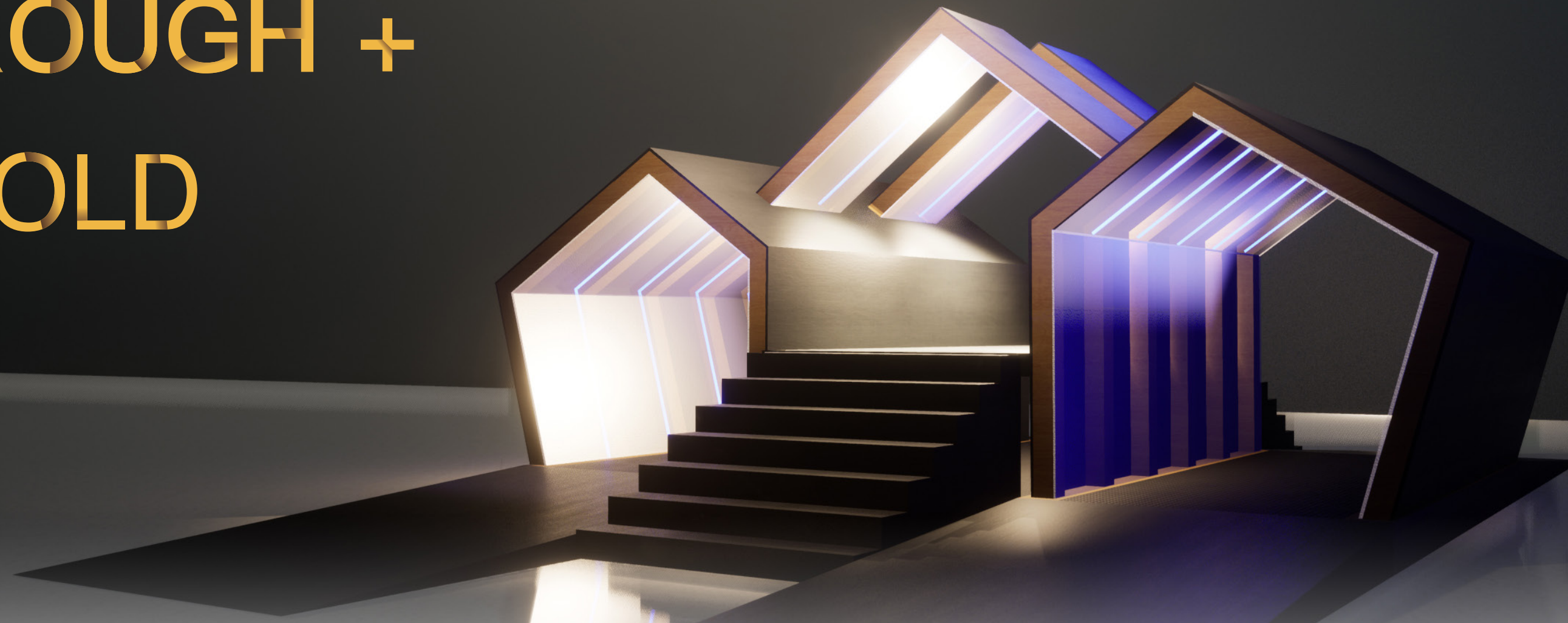


THROUGH + FOLD

THROUGH AND FOLD - A WAY IN WHICH WE CAN MAKE THESE VERBS INCLUSIVE TO ALL USERS, WHILST MAKING THE EXPERIENCE INSTAGRAMMABLE



IMMERSIVE VIDEO



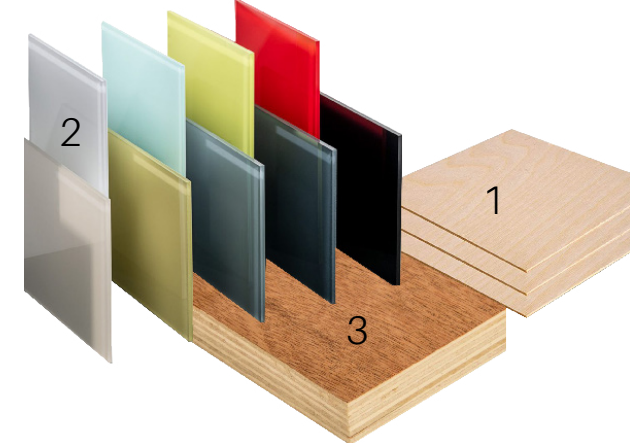
PRECEDENTS

JAMES TURELL



We researched tunnel lighting installations as our initial design iterations created an optic perspective through the repetition of the frames. This installation includes numerous **LED lights** to allow the artist freedom to choose varying speed and colour to set different moods.

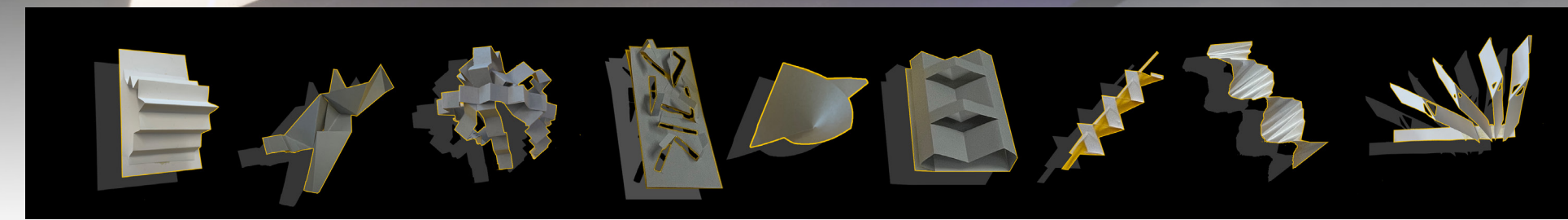
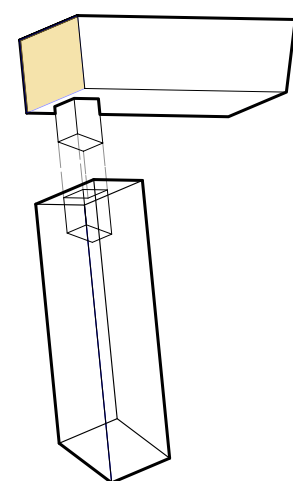
MATERIALS



- 1. Wisa Birch Plywood Panels - 21mm thickness,
- 2. ClearPalsun™ Polycarbonate (solid) 10mm thickness
- 3. Oak Hardwood Timber Frames: 150mm thickness

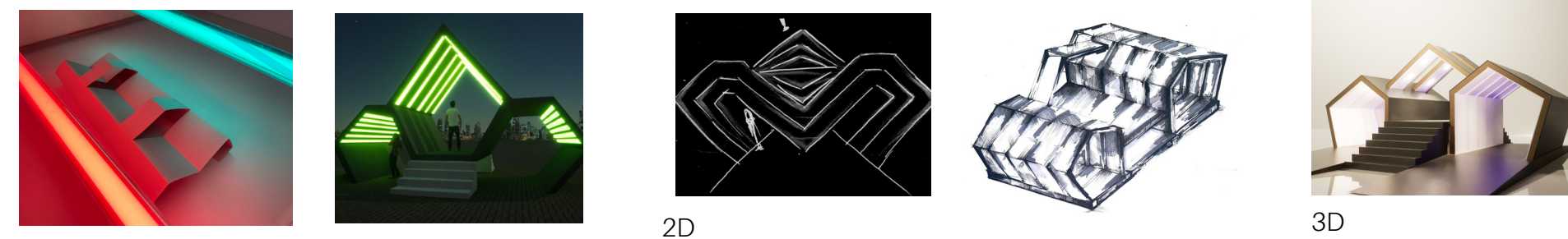
CONNECTION METHODS AND JOINERY

When thinking of possible methods to connect our timber frames together, we researched different types of **hinges** and wanted a design that was **aesthetically flush**. We opted for the **mortise and tenon** joint instead as it illustrates the look and function for the installation. The mortise and tenon joint made it easy for us to de-construct and re-construct our structure within minimal effort needed. Mortise and tenon joints are known for their strength which is a key factor for our structure.



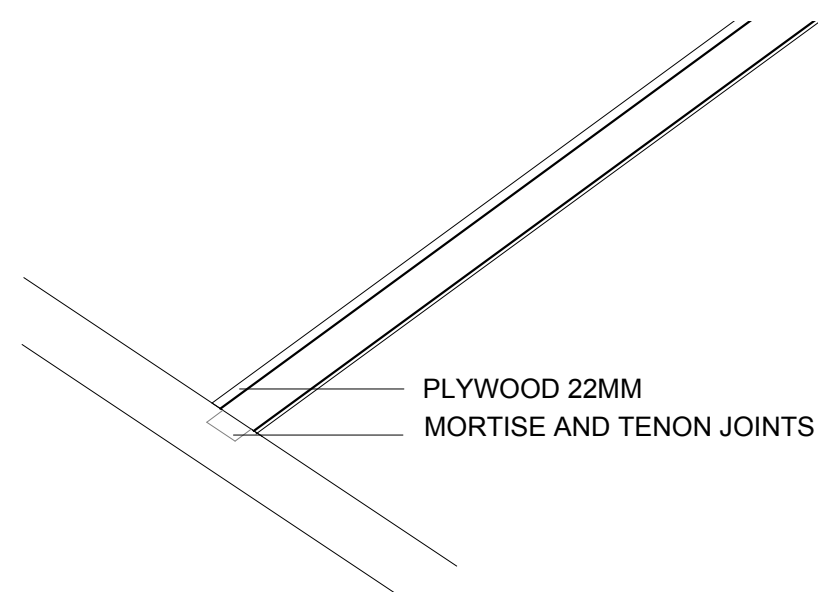
WE STARTED TO USE MASS MODELLING METHODS TO VISUALISE THESE TWO WORDS AND CREATED VARIOUS ITERATIONS

PROCESS

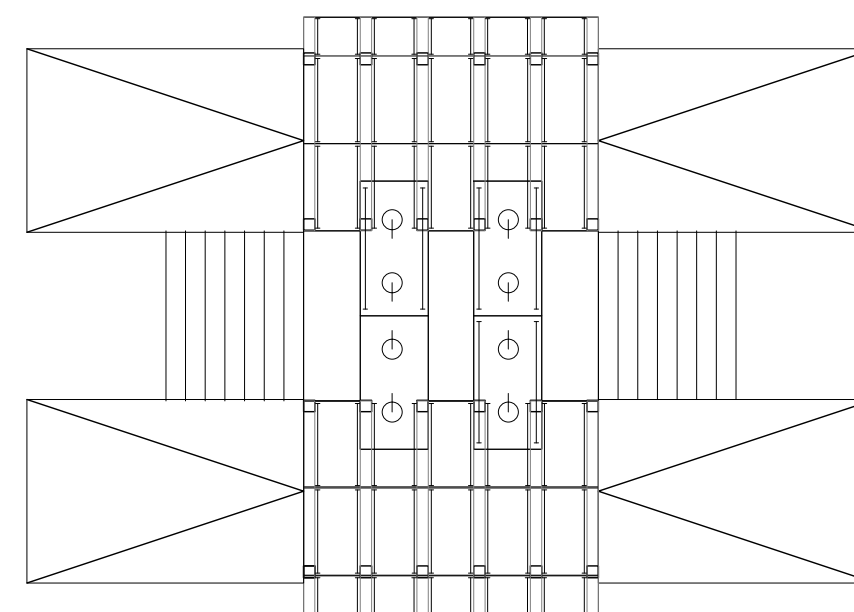


We chose this model due to the change in level and a wide range of space to create light interceptions. We experimented with how different types of lighting can enhance the structure using 3d CAD models.

MORTISE AND TENON JOINERY 1:20 (UPPER LEVEL)



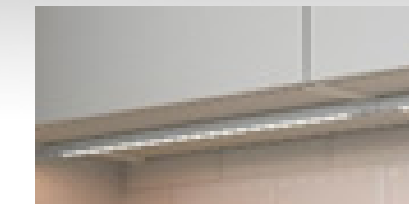
LIGHTING PLAN 1:100



LIGHTING SELECTION



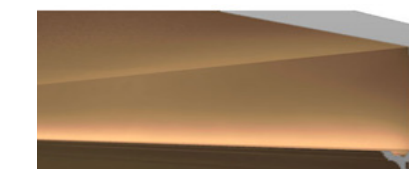
LED Strip Light - interactive colour changing controls.



SKYDRAG - LED lighting strip with sensor, dimmable white.



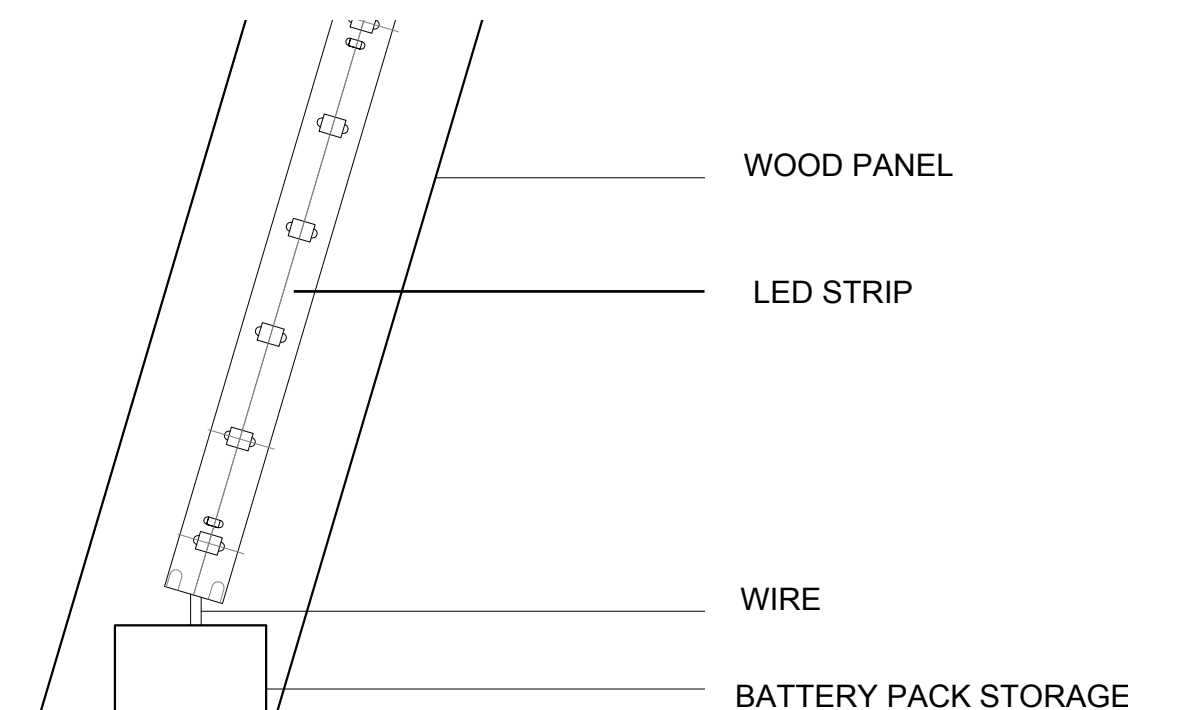
Spotlight - 360° swivel head, mountable and adjustable, RGBW colour system.



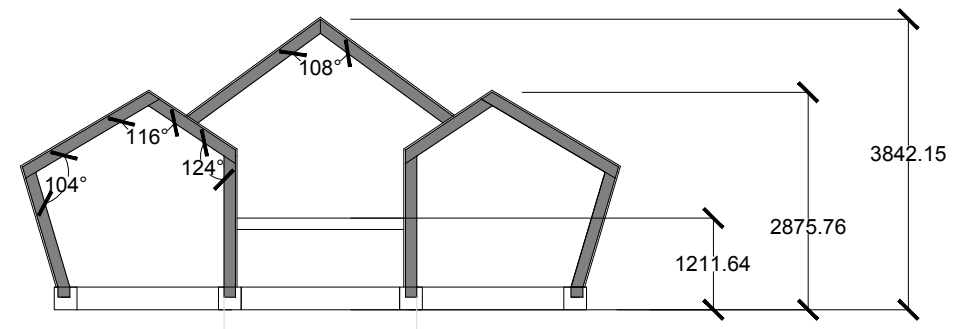
Tape hybrid lights - After Research on different types of LED lights we settled on Strip Lights because of their high output.

LED lights and spot lights which can be connected to a central control system and changed to suit the user needs.

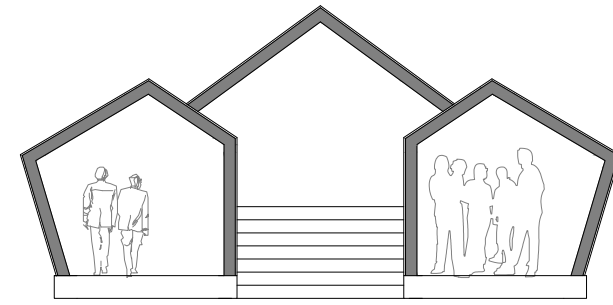
LED LIGHTING DETAIL 1:5



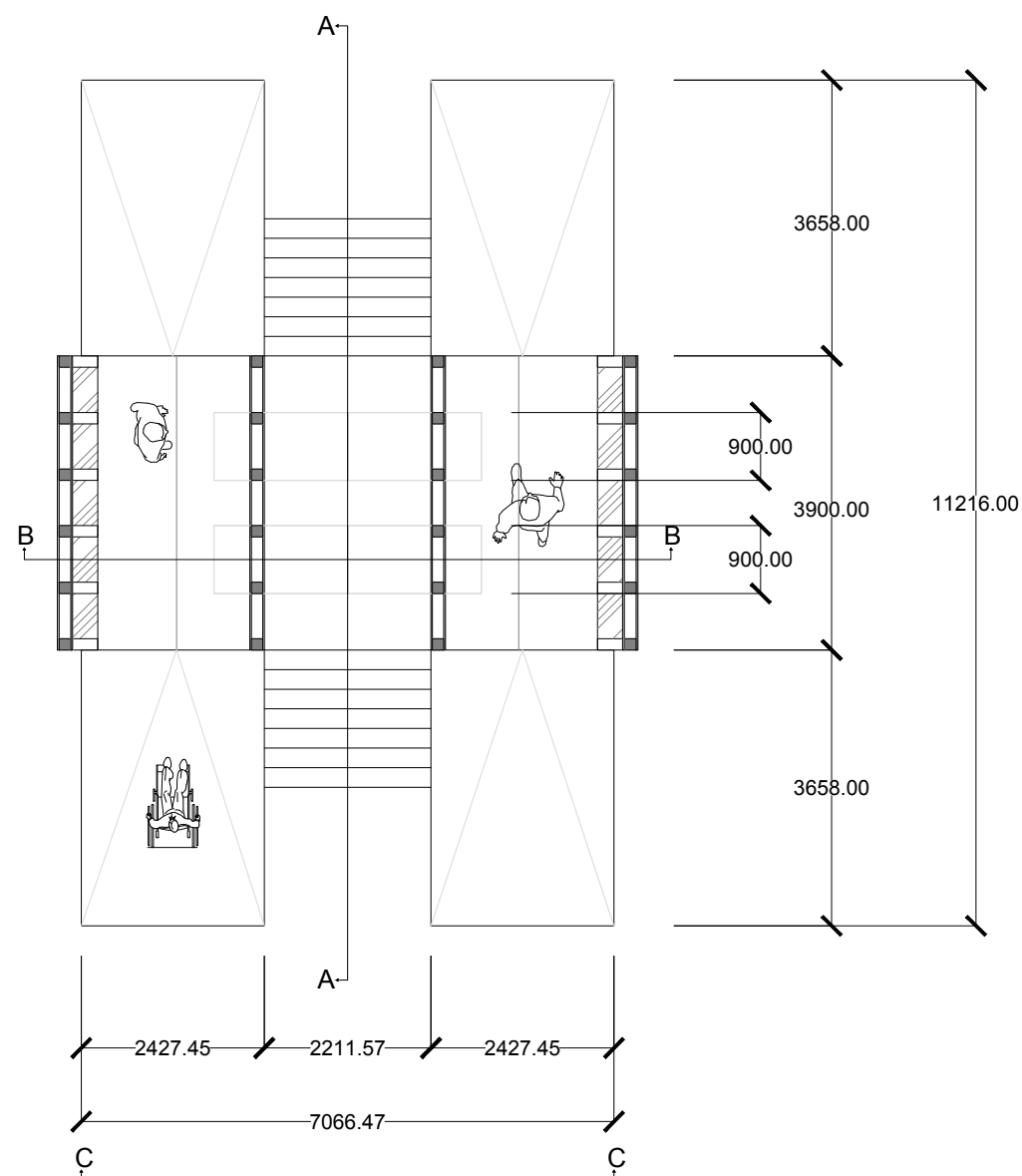
THROUGH + FOLD - TECHNICAL DRAWINGS



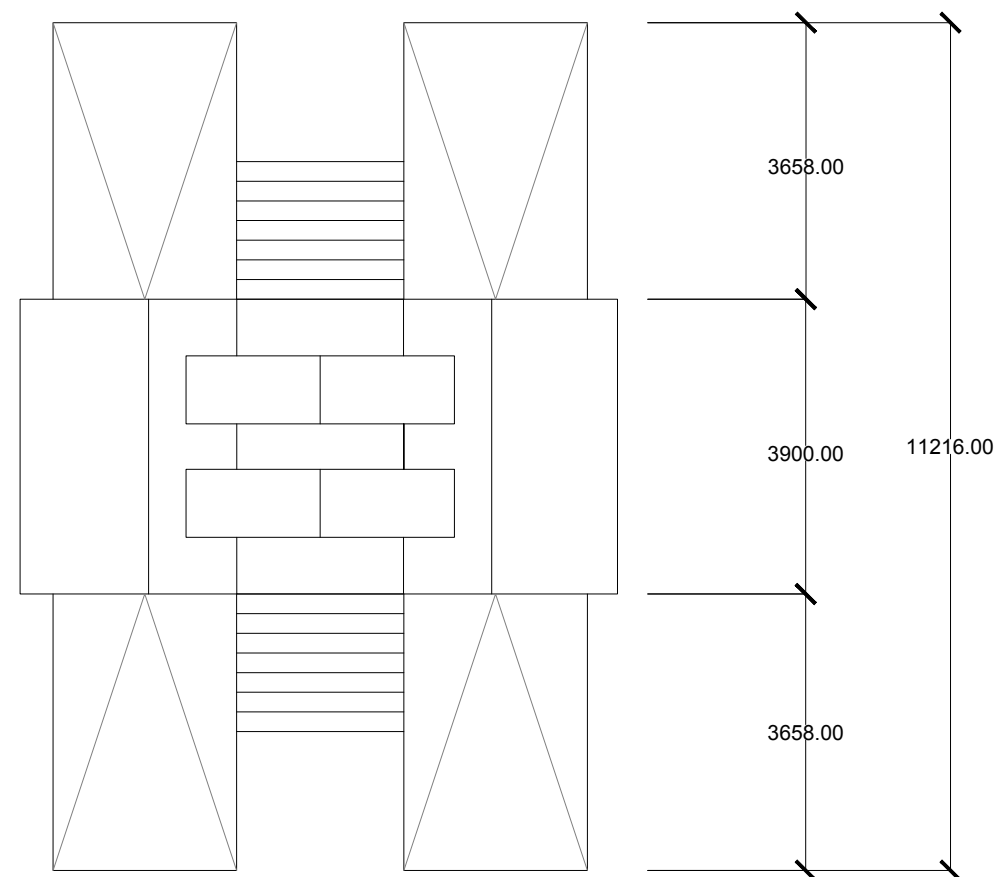
SECTION B-B 1:100



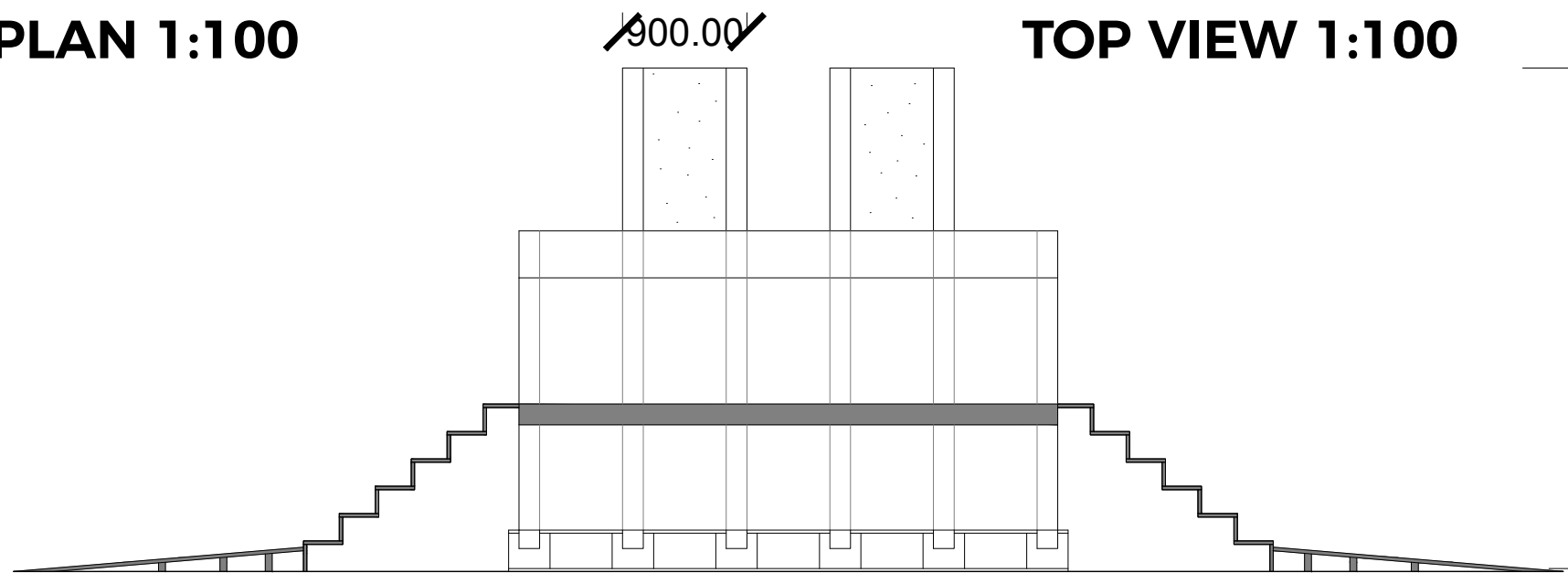
FRONT ELEVATION C-C 1:100



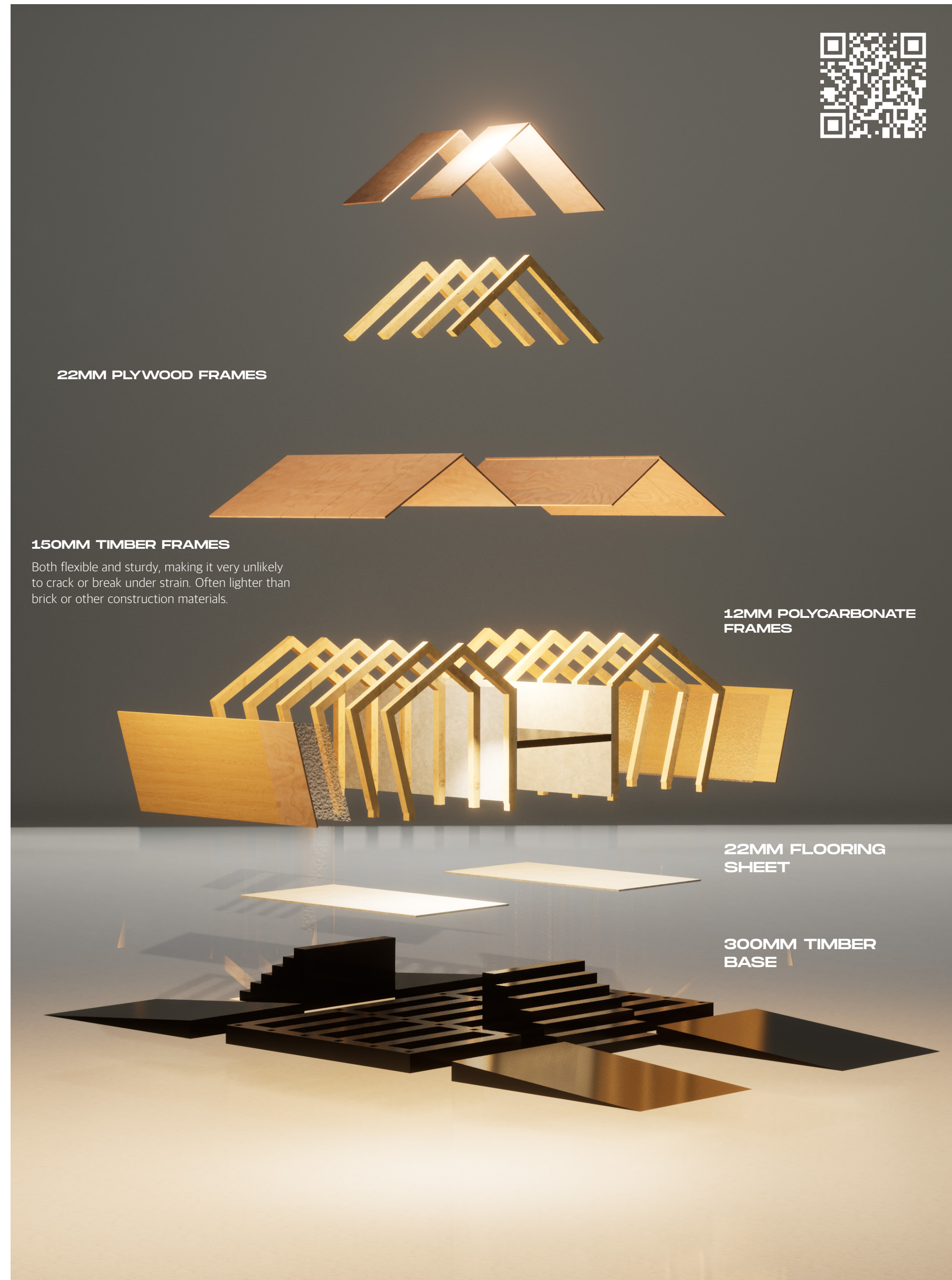
PLAN 1:100



TOP VIEW 1:100

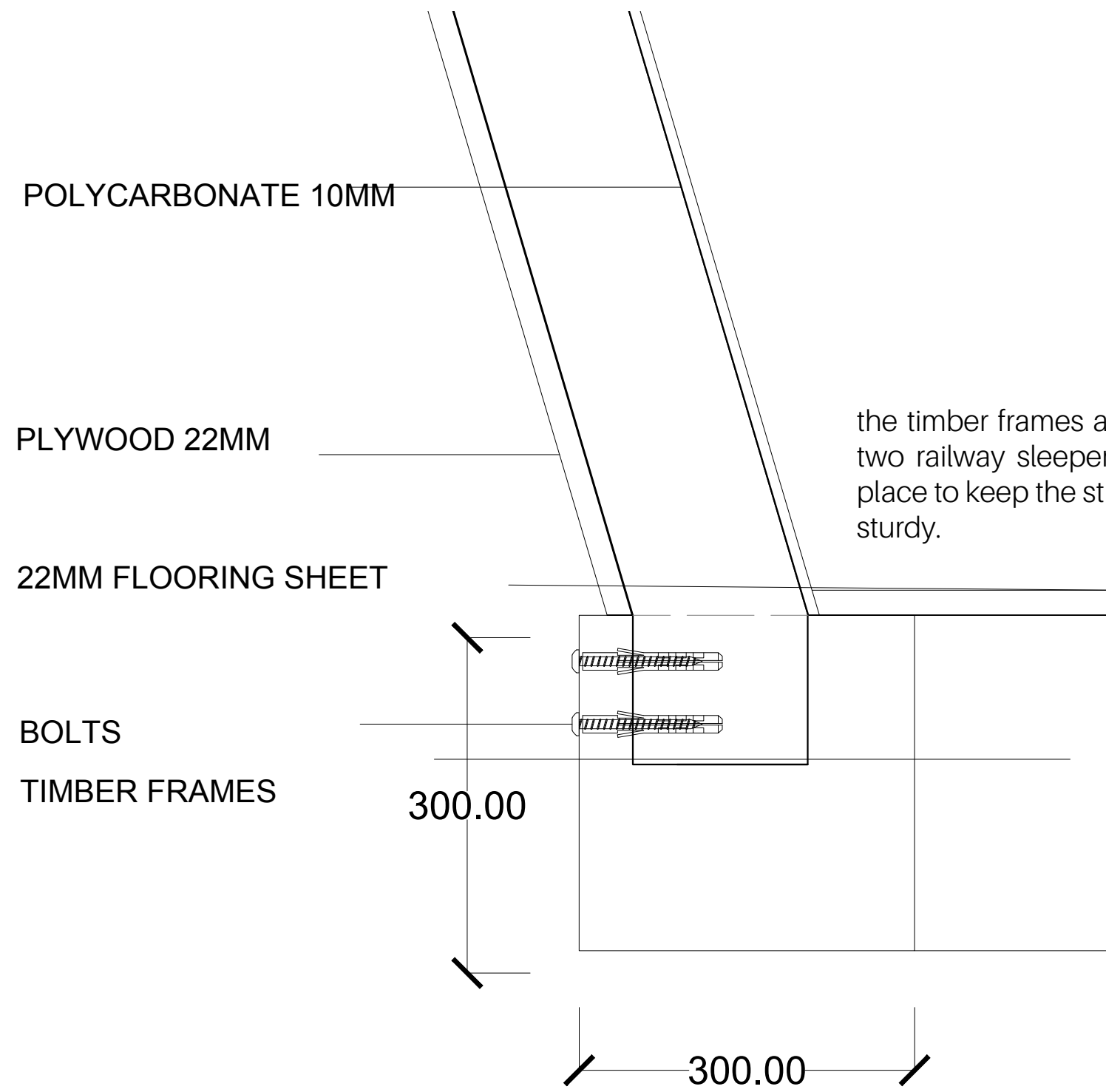


LONG SECTION 1:100

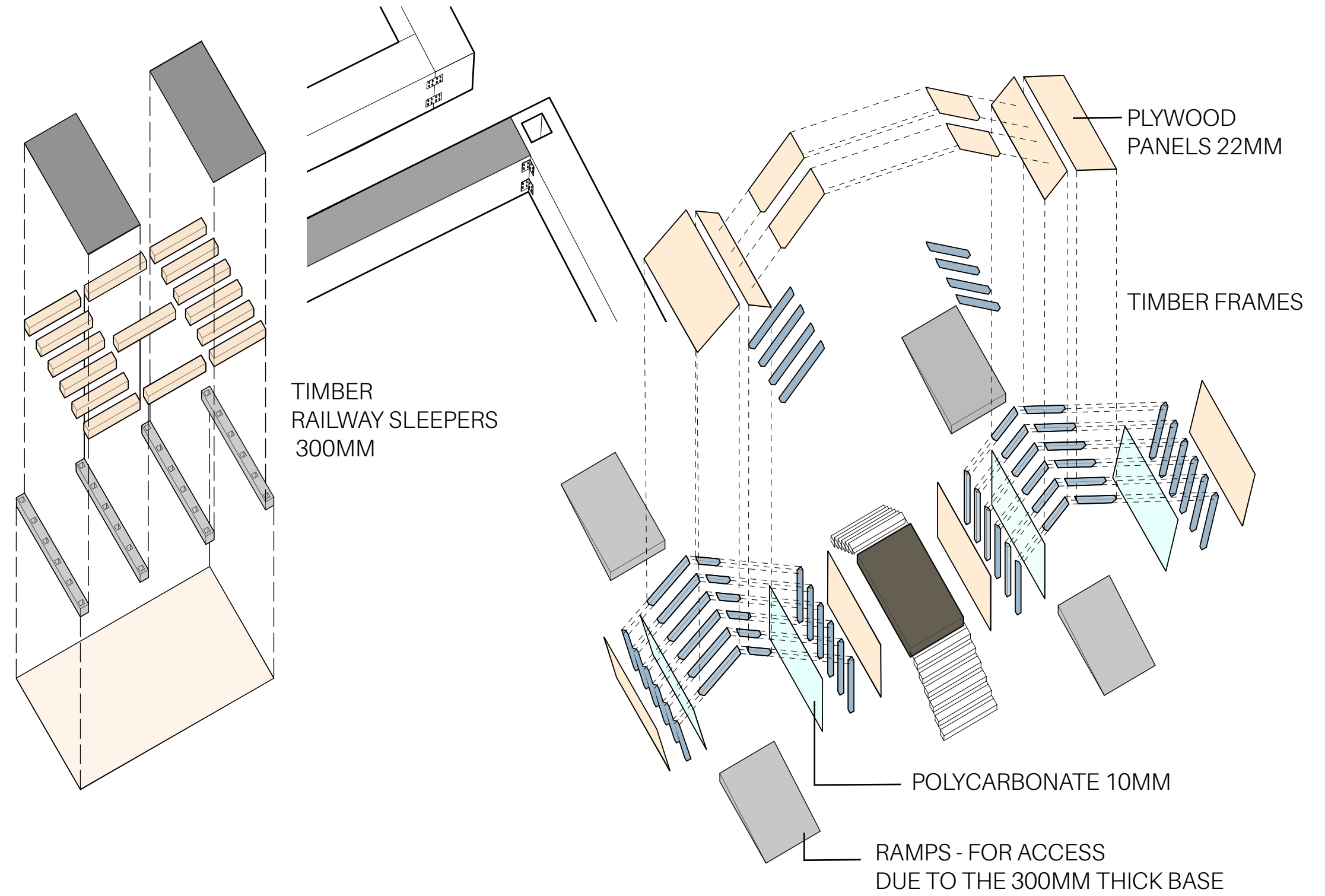


THROUGH + FOLD - TECHNICAL DETAILING

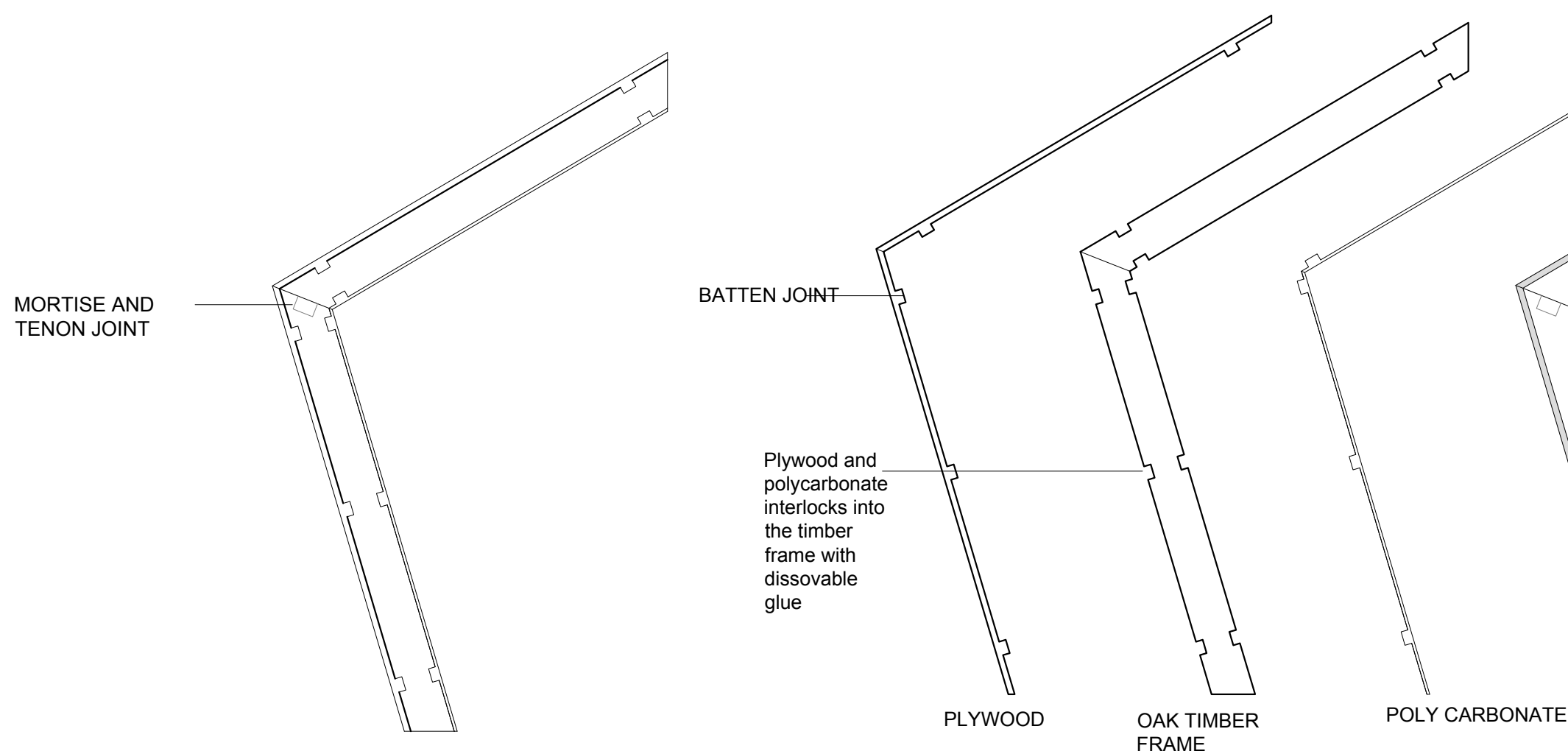
This is the assembly process for the entire lighting structure and it has been exploded based on each individual structure, timber frames and plywood panels



the timber frames are fitted into the two railway sleepers and bolted in place to keep the structure rigid and sturdy.

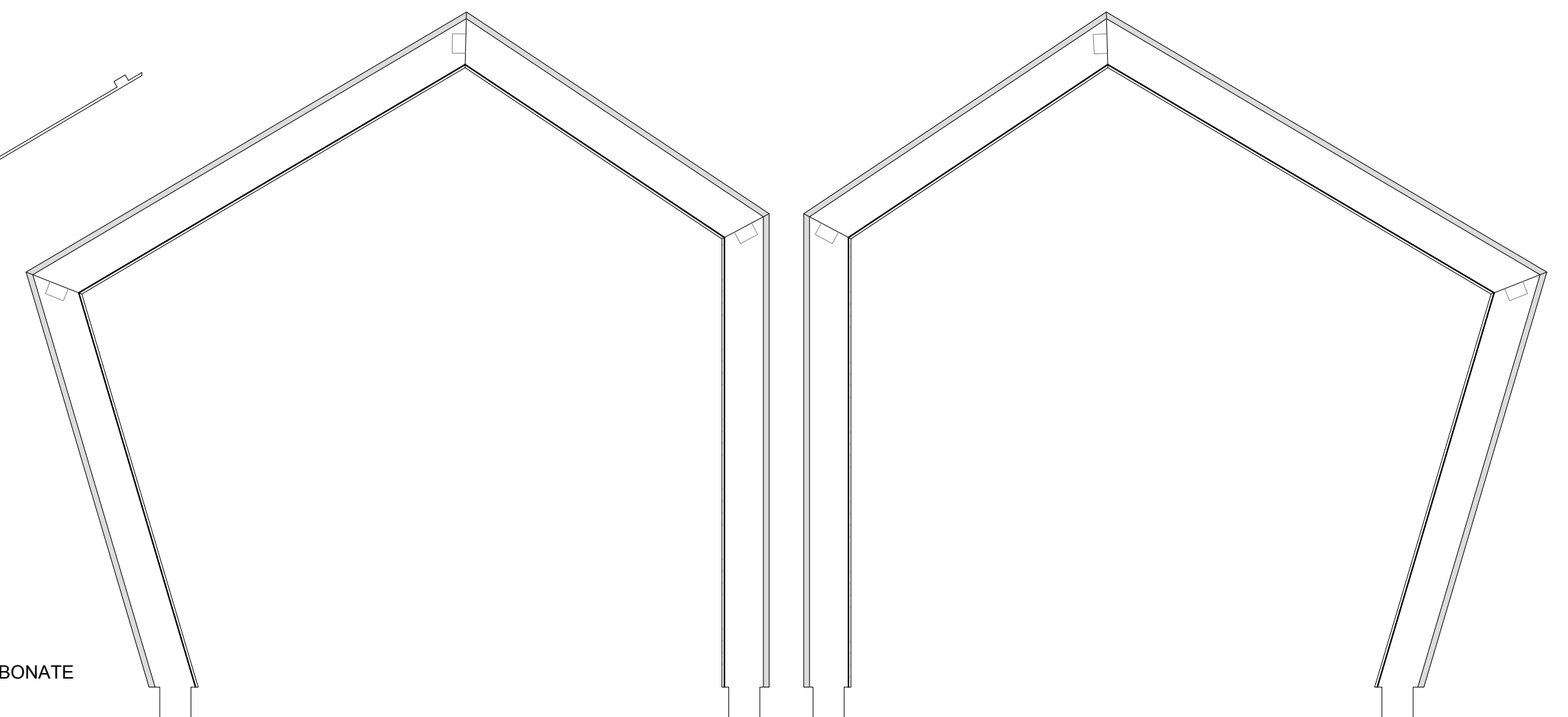


MORTISE AND TENON JOINERY 1:5



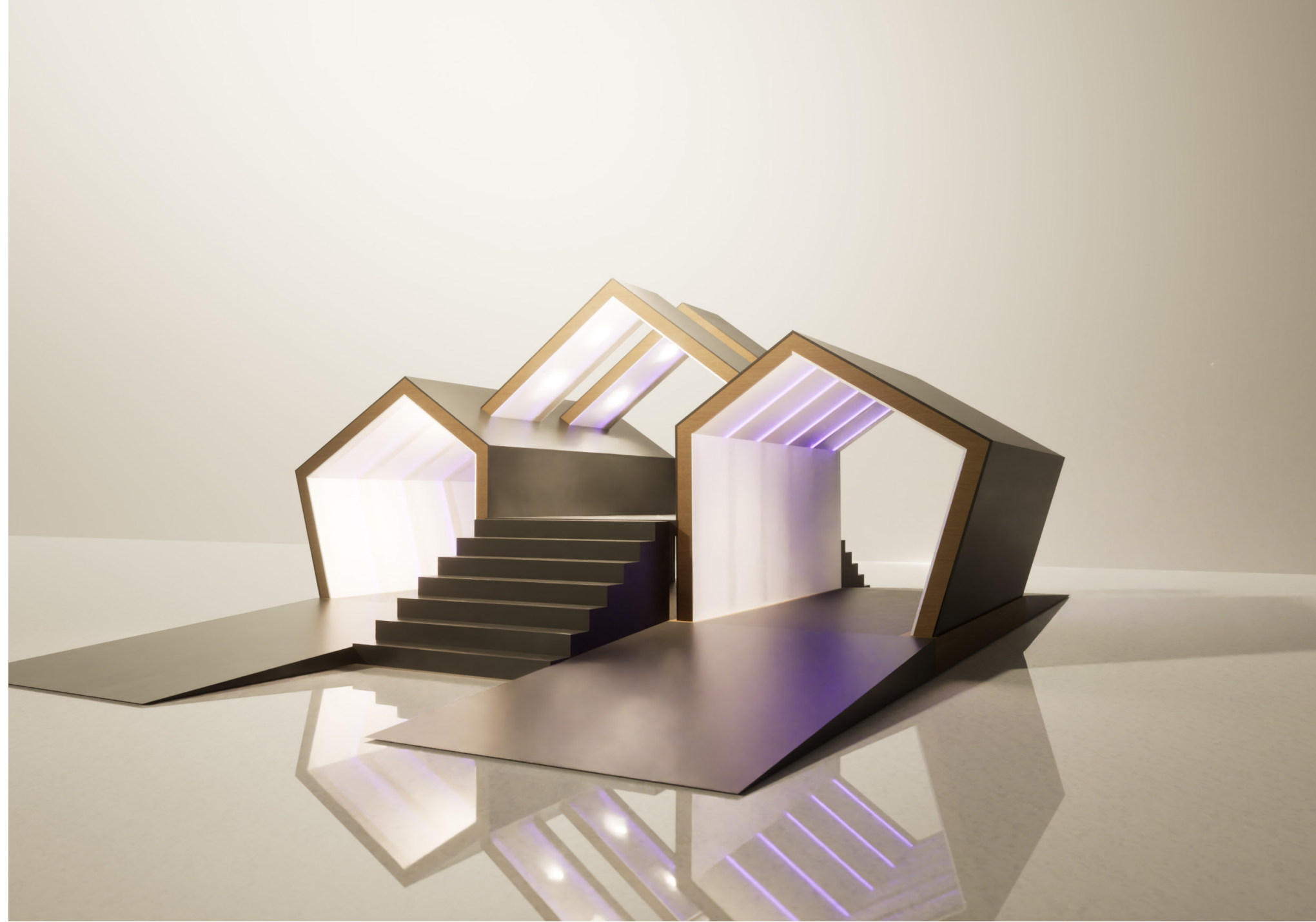
SECTION DETAIL OF MATERIAL JOINERY 1:20

AXO ASSEMBLY PROCESS



JOINERY OF TIMBER FRAMES 1:20

THROUGH + FOLD - PERSPECTIVE VISUALS



TECHNICAL DETAIL MODEL 1:20

IMMERSIVE VIDEO [HTTPS://YOUTU.BE/FJMEQZK8-5W](https://youtu.be/FJMEQZK8-5W)

AXONOMETRIC DIAGRAM

