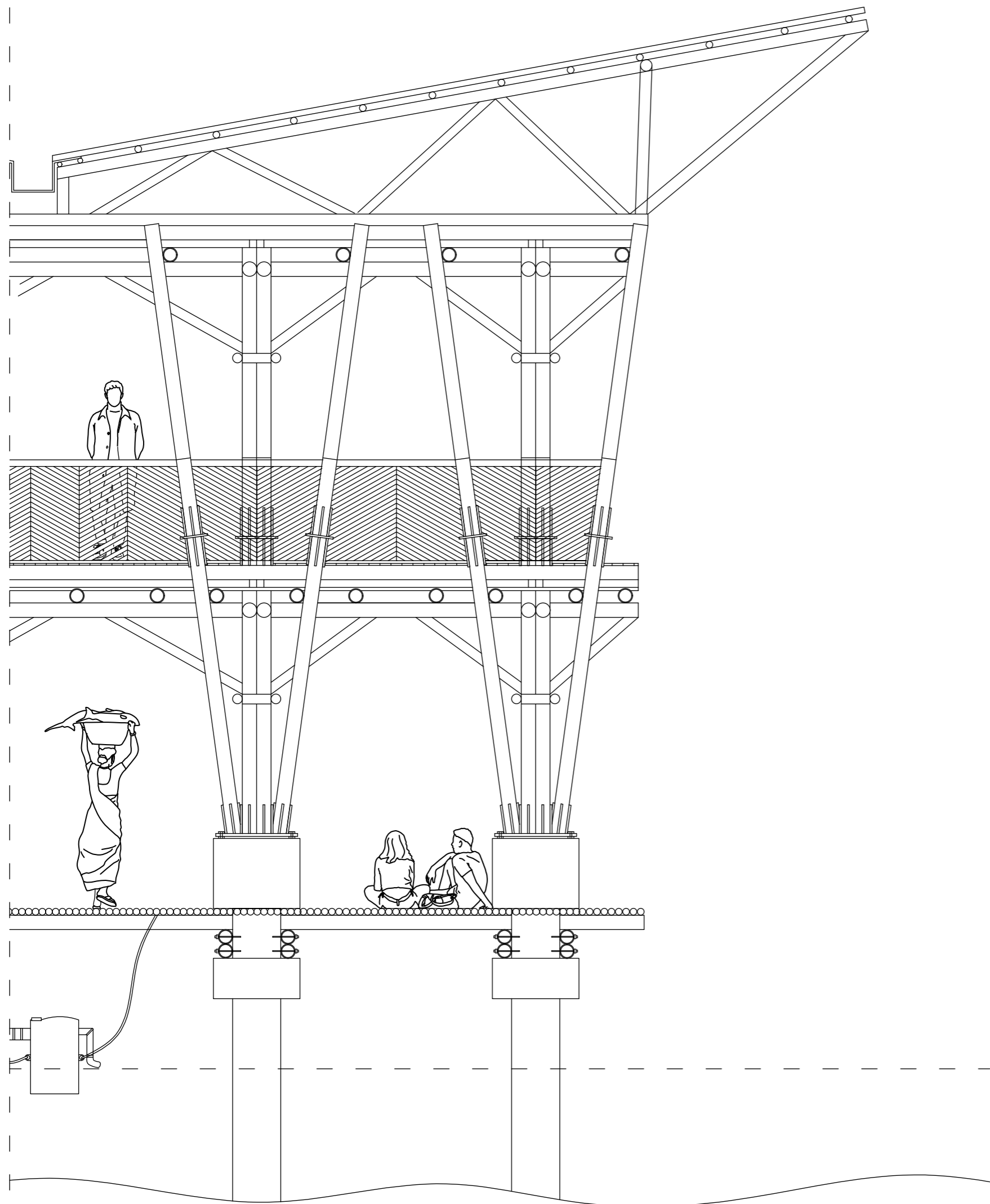
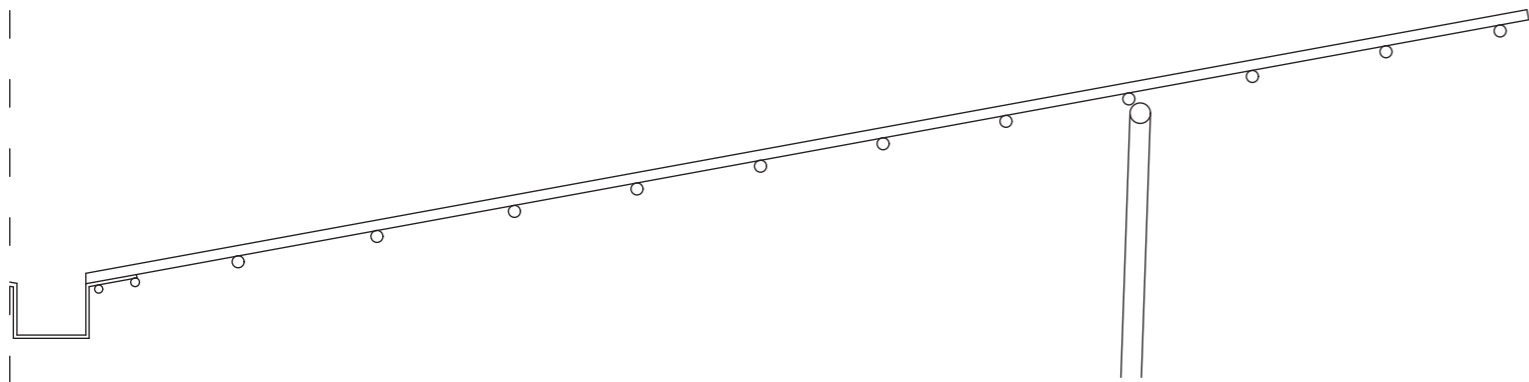


CONSTRUCTION MANUAL



Add the final fixtures such as railings, bamboo curtains, bookcases and tables, carpets and lights. Let the children fill the lime walls with beautiful drawings. You are the place maker of this building!



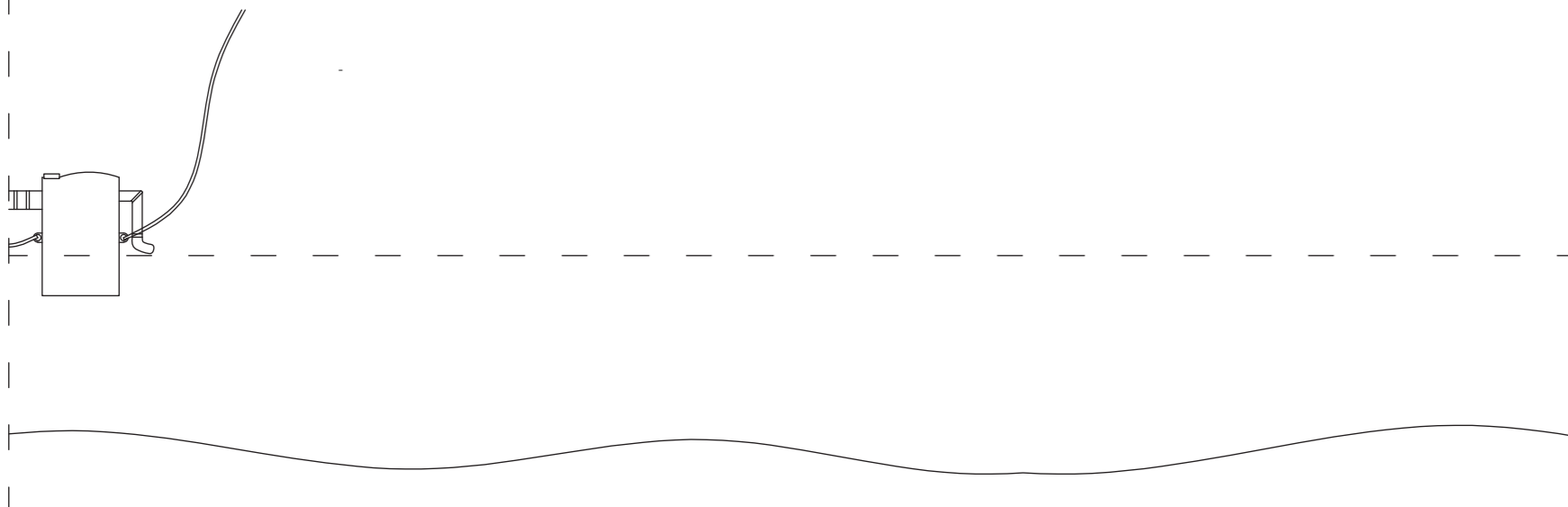
Installing a floating 40L rainwater catchment tank under the main platform means less chances for debris and bacteria forming inside the tank due to high temperatures. The water is suitable for consumption, laundry, toilet flushing, fire safety and irrigation.

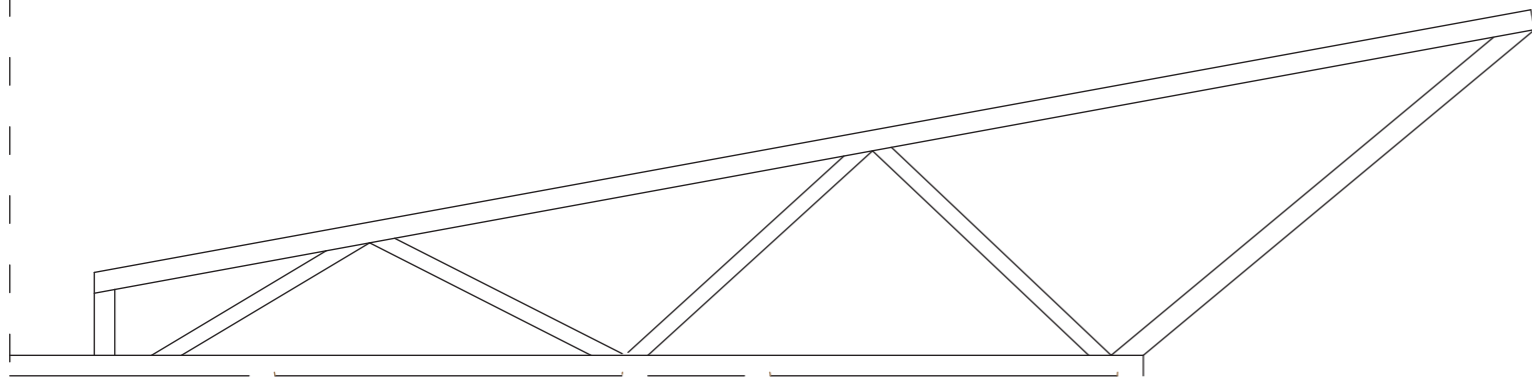
MAINTENANCE TIPS

Step 1: Change the filtration system every year

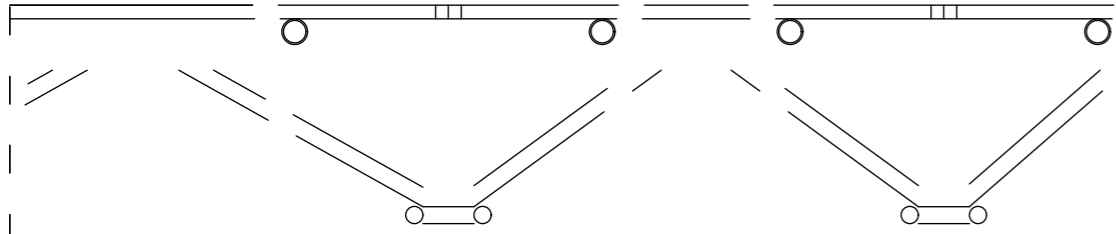
Step 2: Check that there are no leaks and debris build-up and that the tank is stable

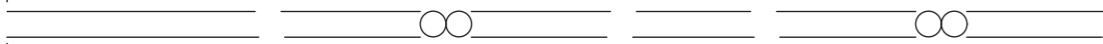
Step 3: Check that the pipes are watertight



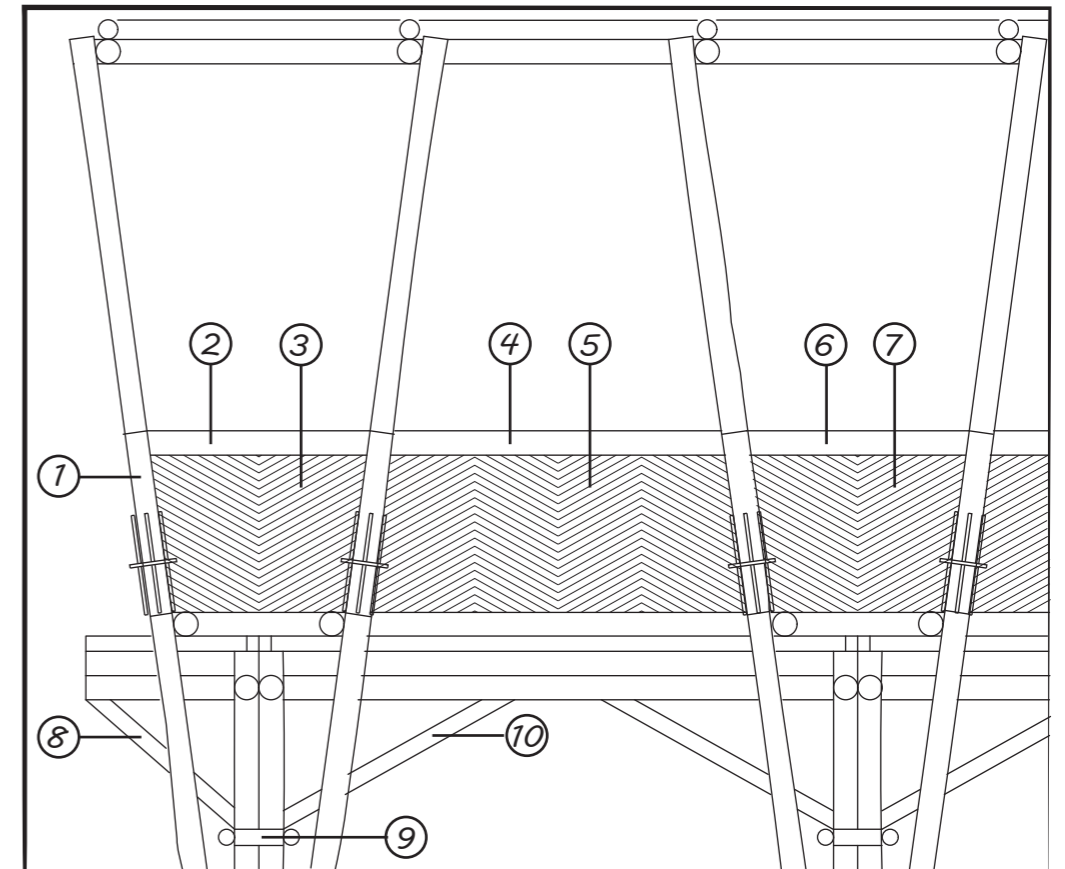


The overhangs of the roof mitigate the weathering of bamboo poles from rain and sun. However, exterior bamboo elements that are exposed to sun and rain should be maintained every 2 years. But fear not! This can be done by infusing them in a borax solution for 5-6 days and letting them dry completely before reassembling them.

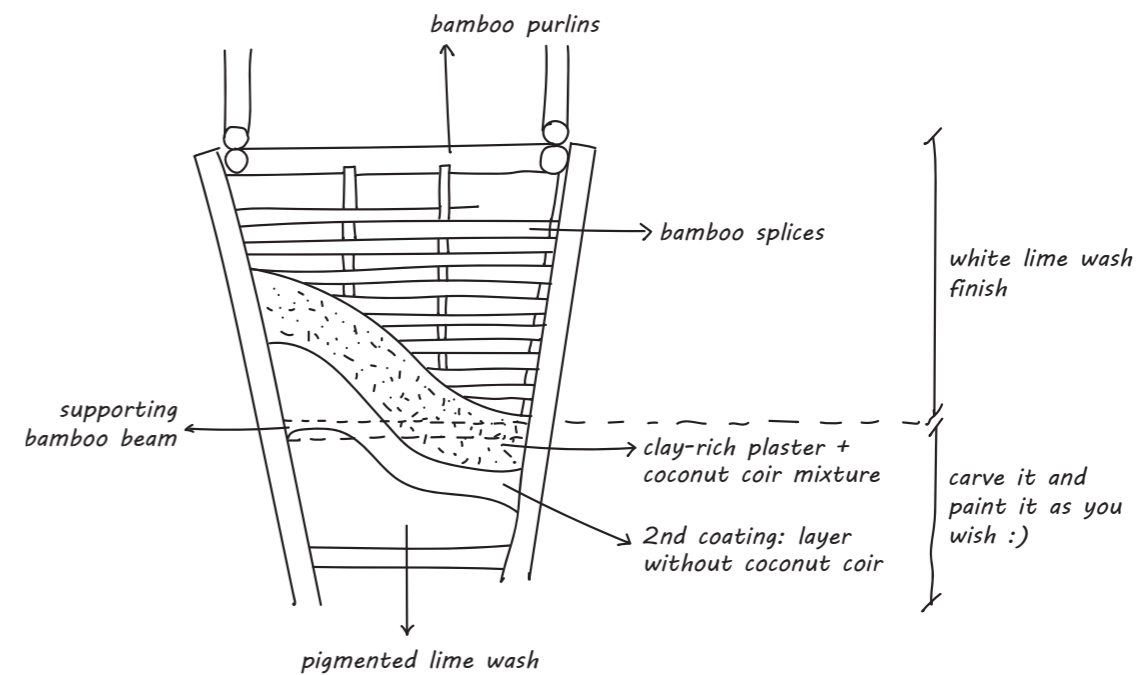
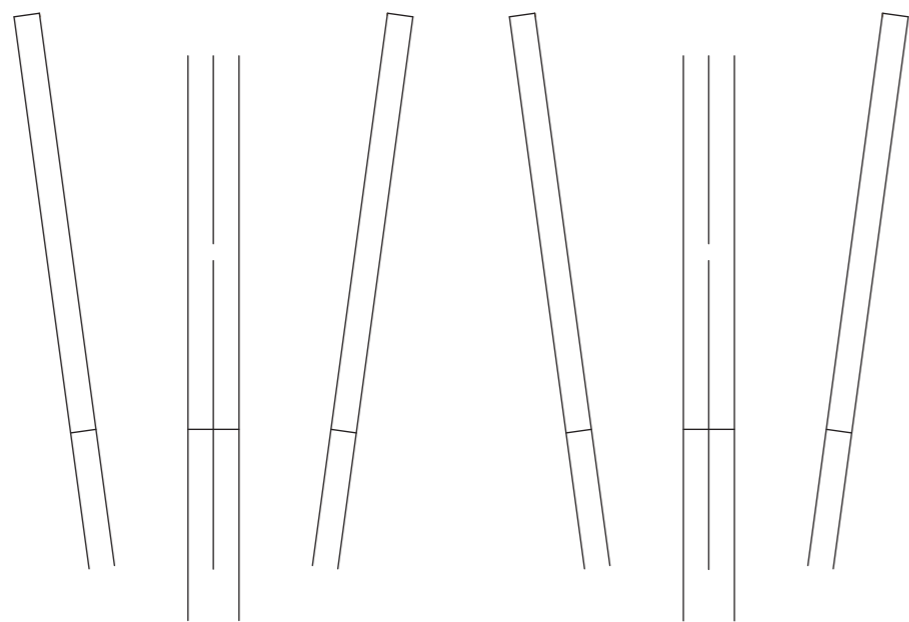




COLOUR THE NUMBERS!



↪ The thick plaster layers protect bamboo lath panels from humidity, fire and pests. However, if you need to replace them, give the old panels a second chance! By washing away the plaster, you can reuse the panels as a permeable surface to dry seaweed or fish.



PRO TIP: Refresh the lime wash every 4-5 years!

Step 1: A single thickness of bamboo purlins are attached to the bamboo frame

Step 2: Strips are plaited horizontally between the purlins

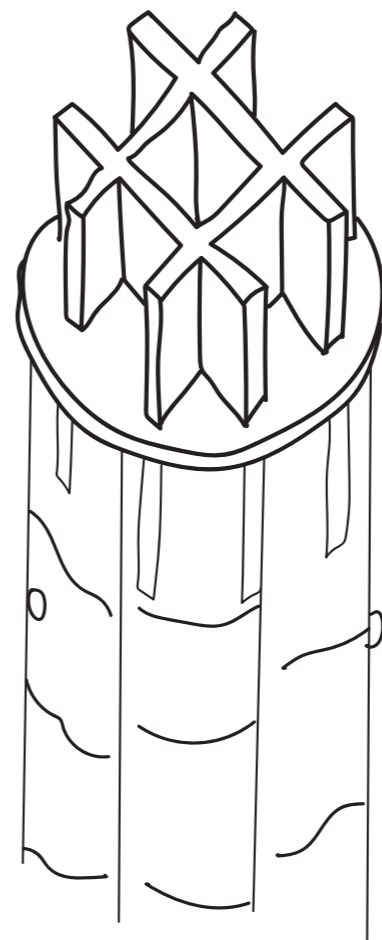
Step 3: The first coating consists of a clay-rich plaster and coconut coir mixture. Coconut fiber acts as a reinforcement for the plaster. Both sides of the bamboo lath panels are coated.

Step 4: For a smoother finish, the second coating consists of a layer of plaster. At this stage, feel free to carve the surface in your preferred pattern.

Step 5: A final coating of lime wash paint is used. This layer protects the wattle and daub system from water.

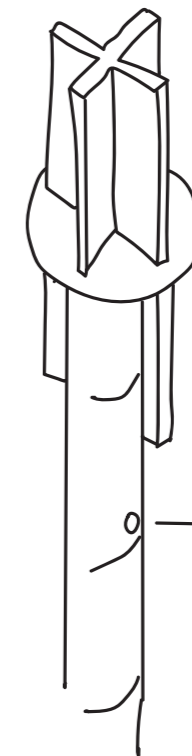


Thick plasters protect bamboo purlins and splices from humidity, fire and pests.



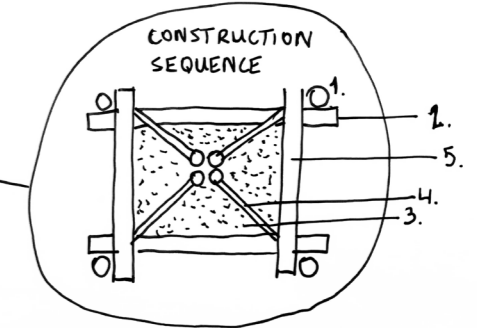
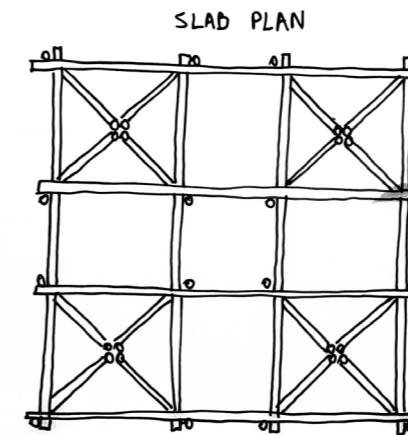
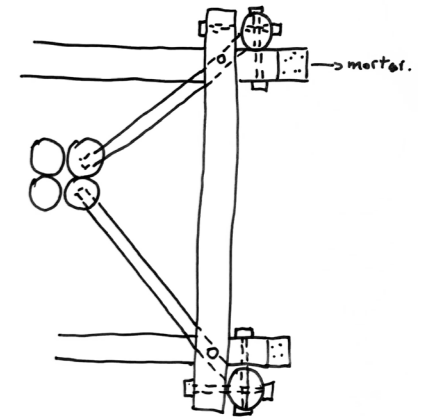
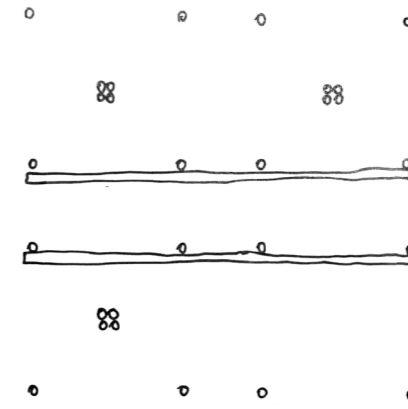
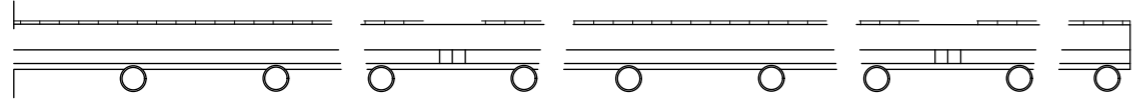
x4 columns

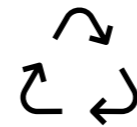
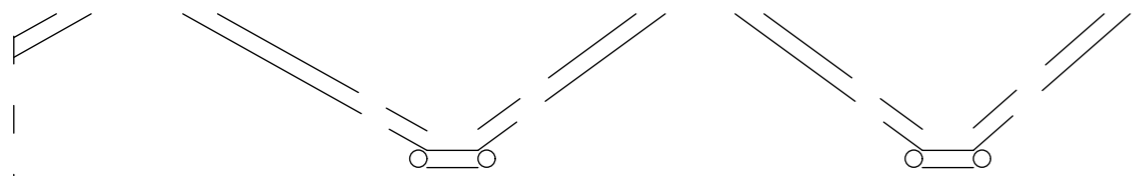
Modular footing fitting all bamboo diameters



singular column

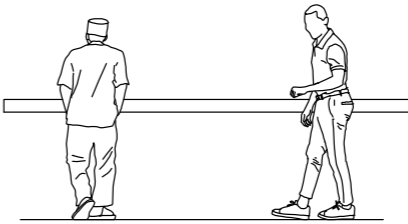
bolts to secure connections between columns and footings



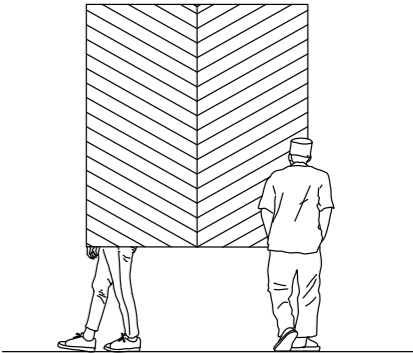


Don't discard bamboo elements! Leftover pieces and dust from the construction can be stored and used for making furniture or cooking. If you need to replace a part, keep the old part and use it for anything from boat building to flooring.

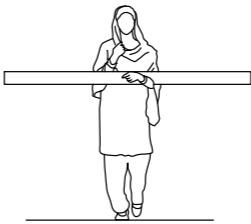
TEAMWORK MAKES THE DREAM WORK



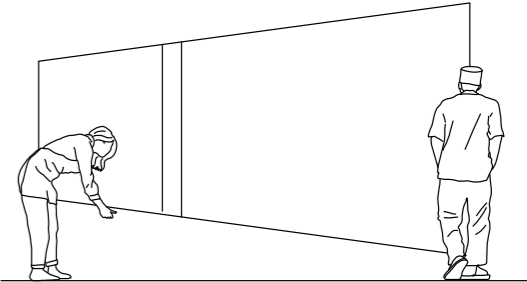
x2 people to carry a bamboo column



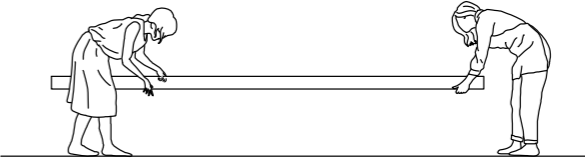
x2 people to carry a controlled ventilation panel



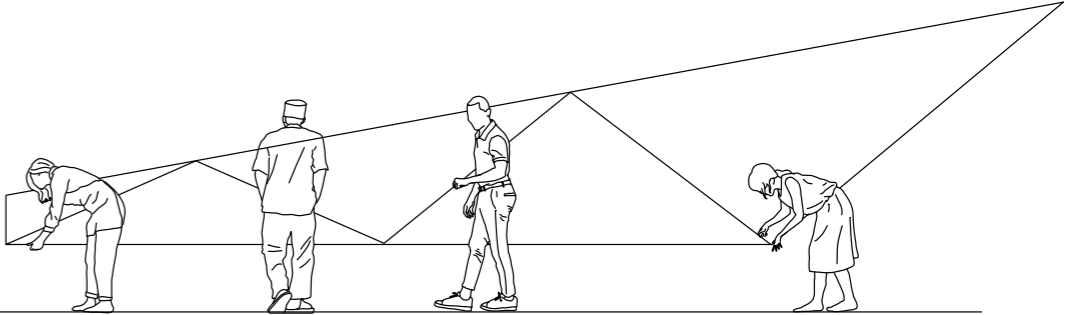
x1 person to carry a bracing element



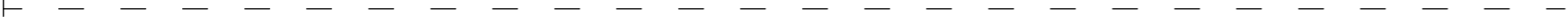
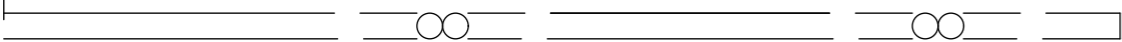
x2 people to carry a bamboo lath panel



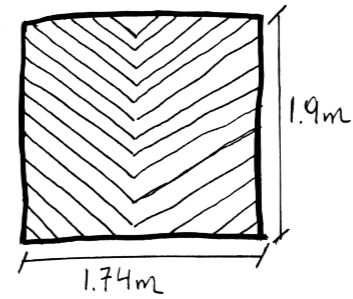
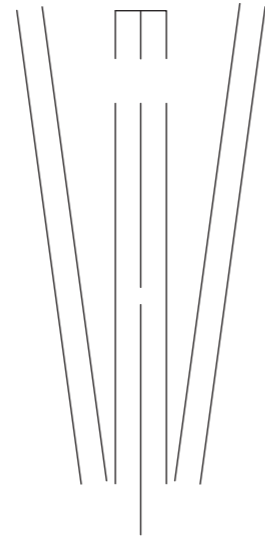
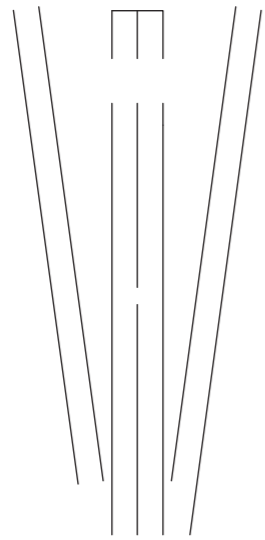
x2 people to carry a bamboo lath panel



x4 people to carry a bamboo truss



WHAT YOU WILL NEED



x 26 double controlled ventilation panels.

x 1476 Kapur wood sheets



coconut coir sheets

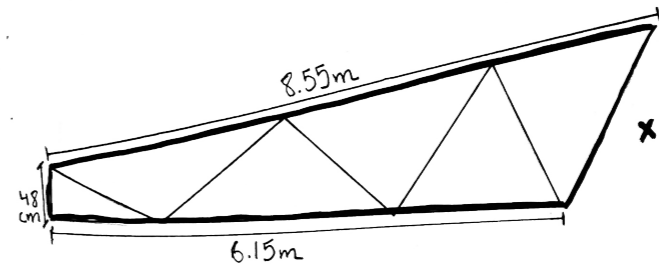


clay-rich plaster + coconut coir.



lime wash paint

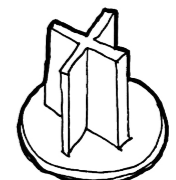
WHAT YOU WILL NEED



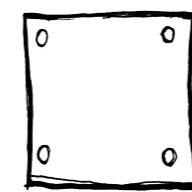
x 28 prefabricated bamboo trusses.



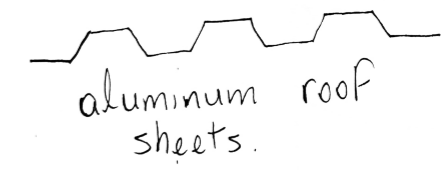
Bamboo purlins for roof supporting and flooring



prefabricated steel footings for bamboo columns



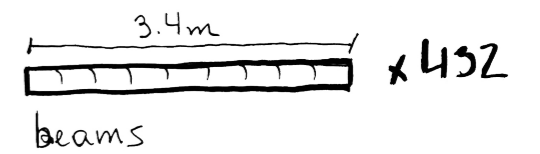
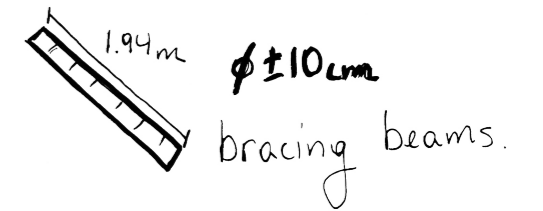
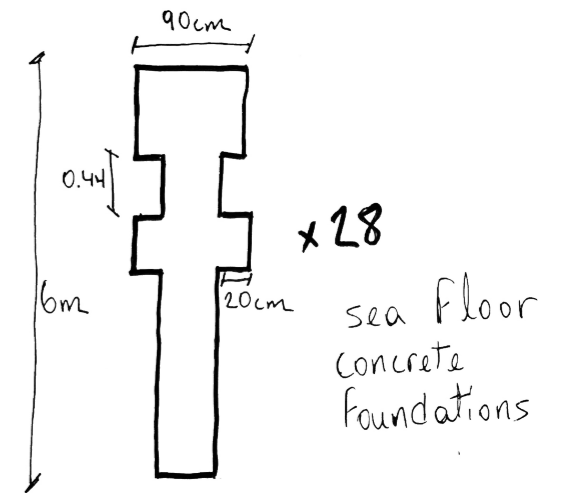
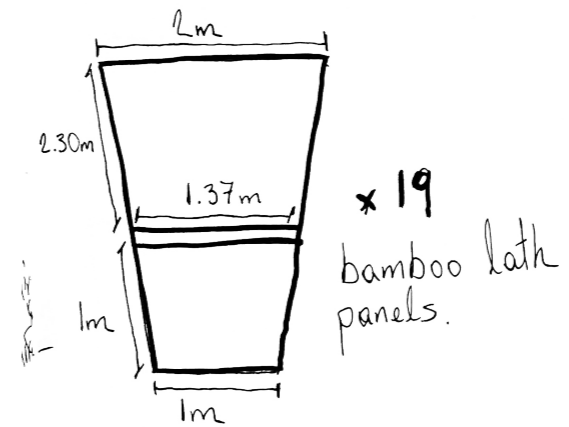
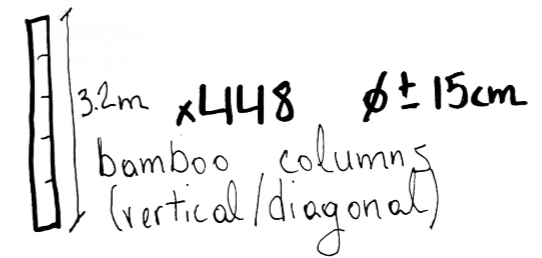
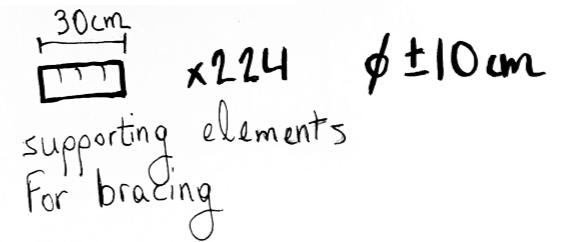
x 19 levelling steel plates



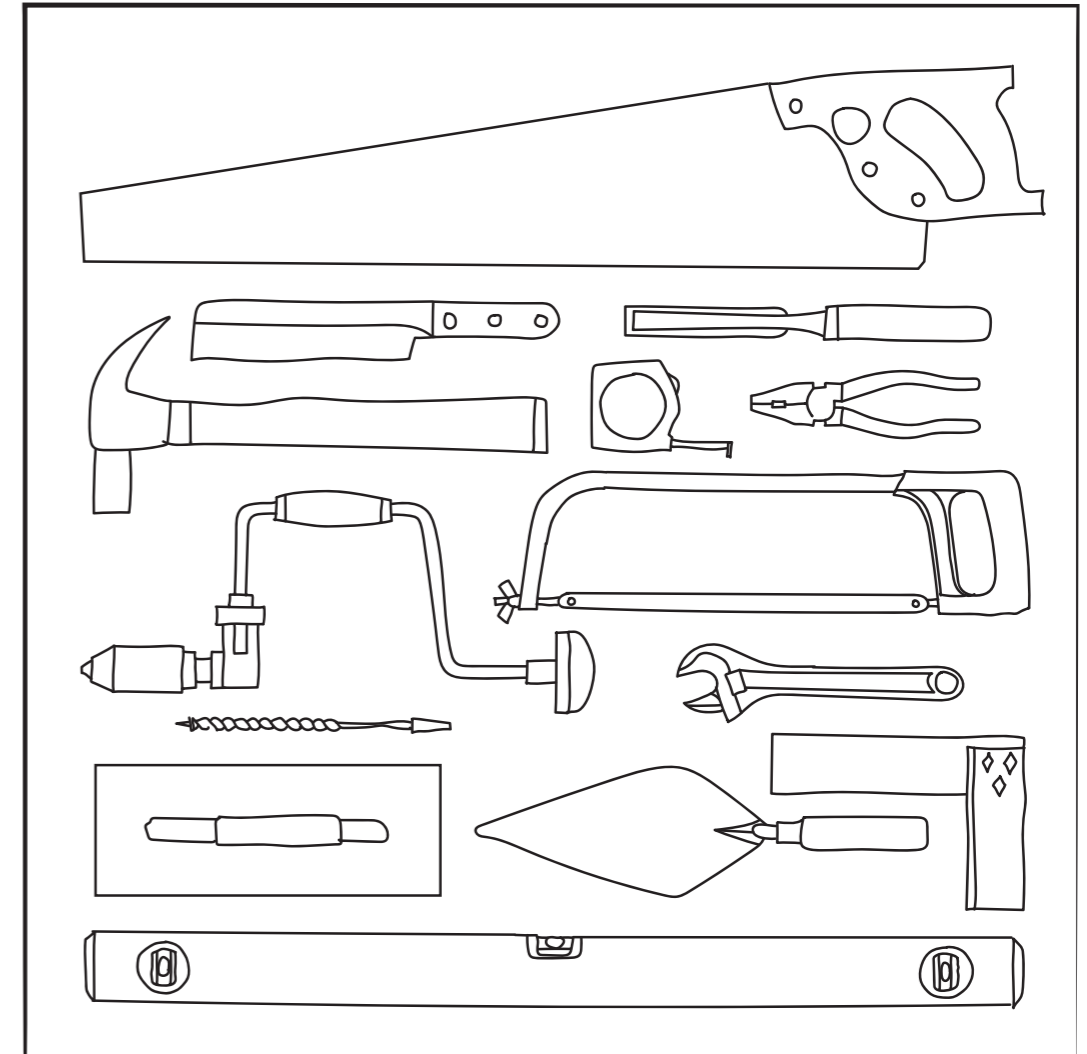
aluminum roof sheets.



WHAT YOU WILL NEED



THE TOOLBOX YOU WILL NEED..



Saw: to cut bamboo to size

Splitting knife: for cutting bamboo strips

Chisel: for detailed splitting, general carpentry

Hammer: for use with splitting knife and chisel + nailing

Tape measure: for general measurements

Hacksaw: for cutting steel dowels and bamboo purlins

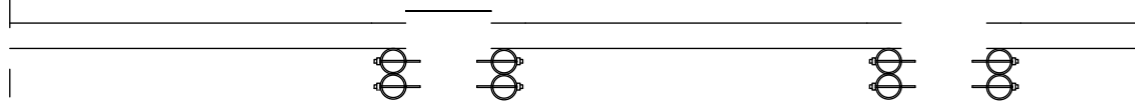
Drilling and drill bits: for drilling bamboo for bolts

Spanner: for tightening bolts

Plastering trowel: for floor and wall plastering

Square: for general use

Spirit level: for ensuring plumb and level



Dear Community,

After studying you, your built environment, customs and traditions, I came to the realisation that as a community, you highly value your freedom. Whether it's deriving sustenance from the sea for centuries or embarking on extended fishing expeditions without being tied to a specific location, your culture has prospered due to your adeptness in adapting to diverse conditions. As an architect, I feel compelled to design a seascape that not only celebrates but also concretizes your maritime heritage, passed down through generations. This community school aims to provide you with a place that serves as a hub for anyone that wishes to connect with the sea, to mingle, study, meet, teach or be taught.

With my assistance in anchoring foundations to the seabed, a secure and enduring framework is now in place, providing you with a stable canvas to construct upon. I trust in your do-it-yourself (DIY) skills, knowledge, and craftsmanship for the remainder of the project. Starting from this point, you'll find a comprehensive construction manual that you can retain and refer to throughout the building process. On the left side, there's a detailed, step-by-step construction guide. Embrace the process of self-building, learning, and personalizing the building's appearance to suit your preferences. And don't forget to have fun!

Best Regards,
Christina

