



"As you walk through the landscape, the O gently emerges as a floating circle that calms the senses and invites contemplation."



"The O is a place to gather, reflect, and connect. A place for everyday life and special events, where nature and sustainability intertwine, and everyone is welcomed to come and being together"

Merging Traditional Materials & Modern Technology in a Poetic Geometry

While timber suggests tradition and craftsmanship, the solar canopy evokes innovation

Key Architectural Elements

Solar Panels

336 black monocrystalline solar panels are placed in modular group of three and cover the all canopy. They all tilt 19° following the two north-facing roof faces.

Roof System

The roof system is composed by modular rigid panels to support the rails and the PV system. The all surface is covered with rainproof membrane to ensure an efficient water collection.

Rooms

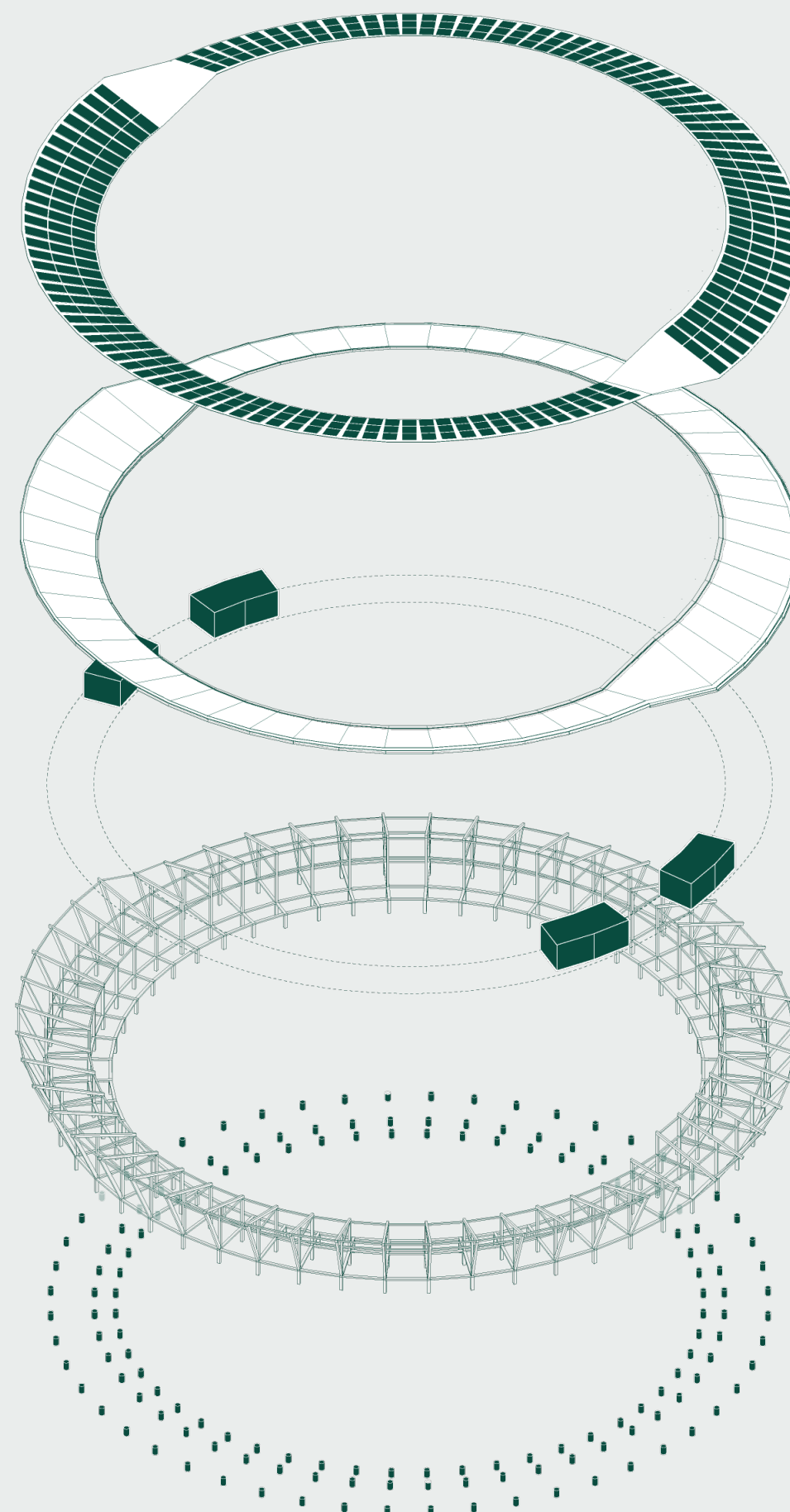
Enclosed spaces made of wooden planks are integrated into the structure according to the modular rhythm. The room for battery storage is insulated. Additional rooms can easily be added if required.

Structure

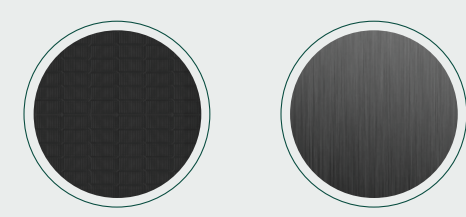
The circular structure is made up of modular timber elements that are easy to assemble and transport, with good strength, flexibility and a reduced carbon footprint.

Foundations

Screw pile foundations are used to minimise the impact on the ground and allow vegetation to grow across.



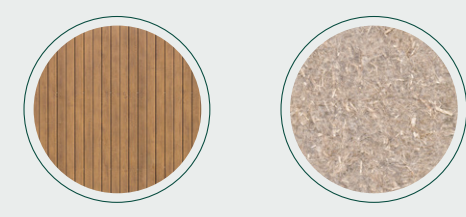
Sustainable and Low Carbon Materials



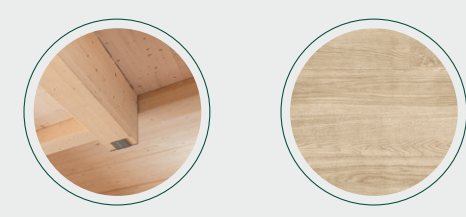
Highly Durable Monocrystalline Panels (full black cells and reinforced frame design)



Timber Panels (compressed bamboo or plywood) + dark Rainproof Membrane (ETFE or recycled rubber)



Timber Planks (regionally or locally sourced) + Insulation Panels (hemp or wool)



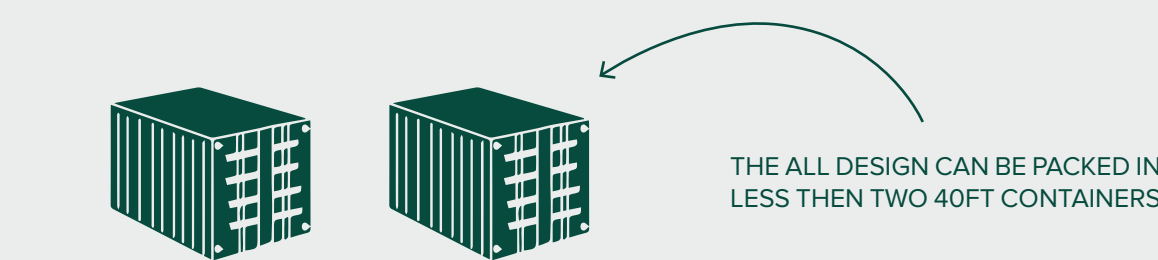
Naturally Durable Hardwoods (teak, kwila/merbau, ironbark, vitex)



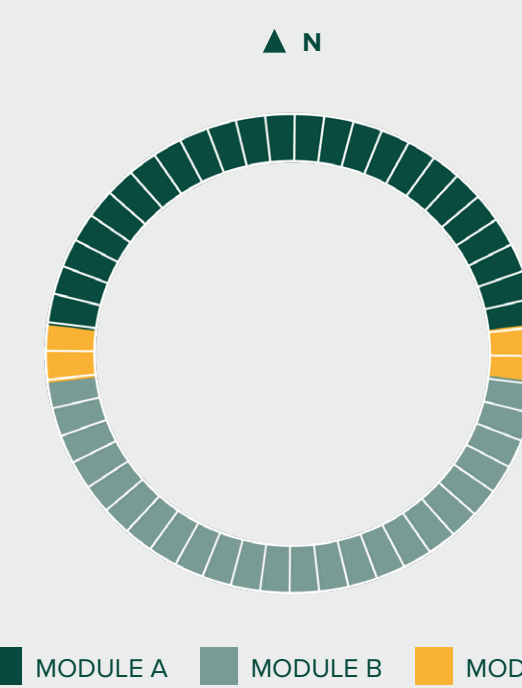
Steel Screw Pile Foundation (punctual concrete can be alternative depending on soil conditions)

A Simple & Modular System

Easy to manufacture, easy to transport, easy to assemble, easy to maintain

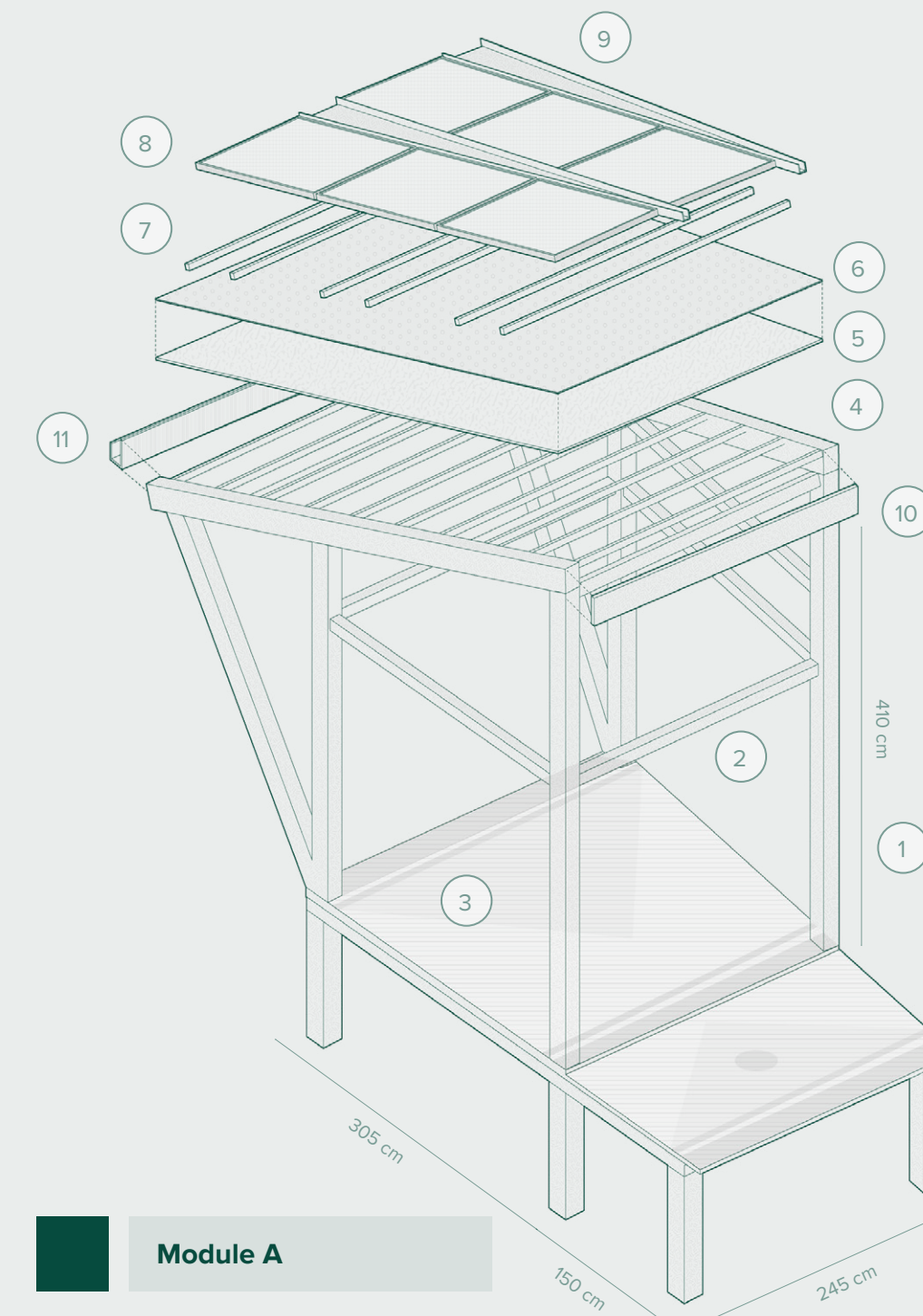


THE ALL DESIGN CAN BE PACKED IN LESS THEN TWO 40FT CONTAINERS

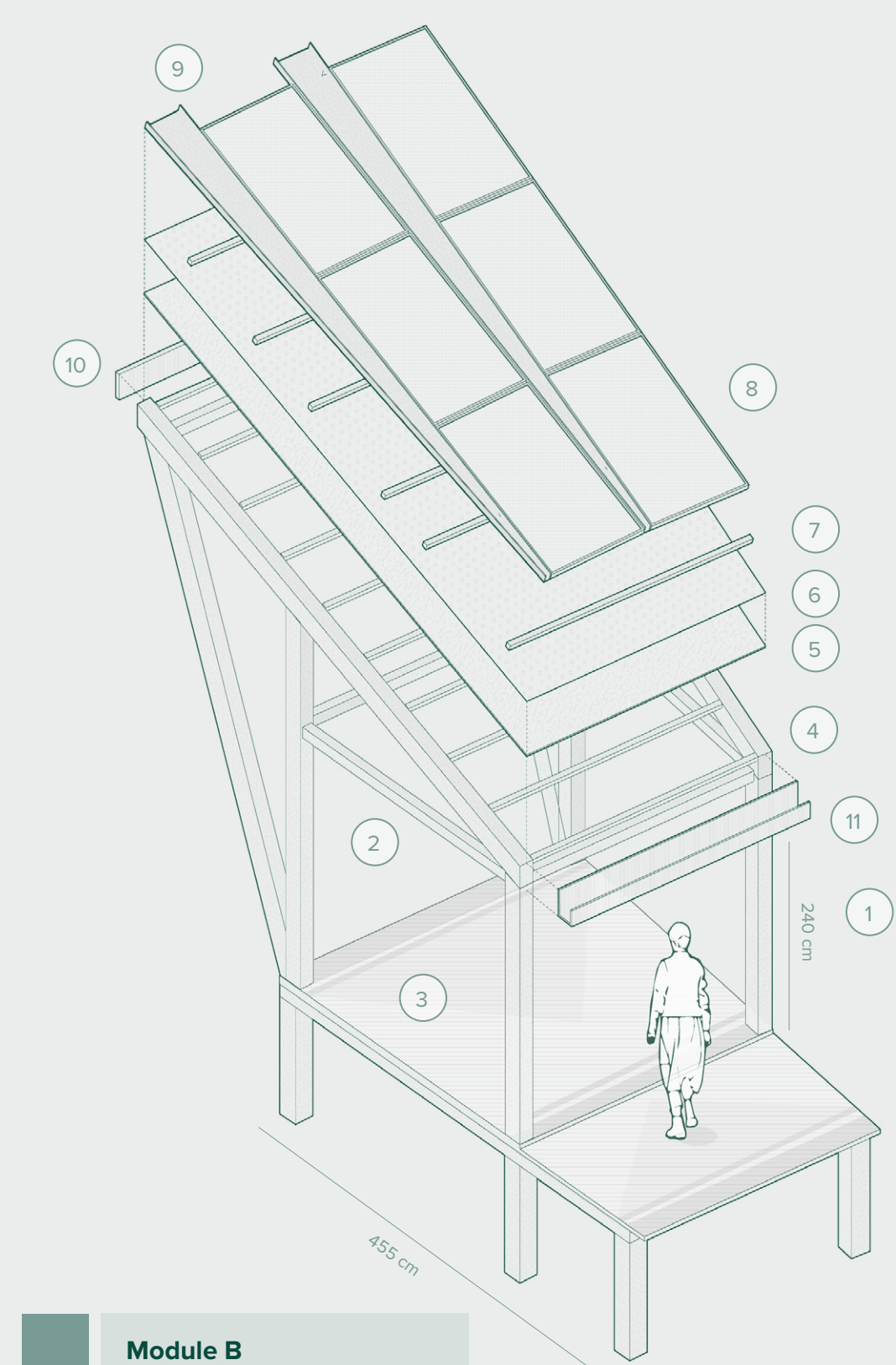


The design of the structure is based on simple, modular and small elements that can be easily manufactured, transported and assembled. The design is driven by two primary modules, which define the overall geometry, and a third module that connects them. There are 24 modules of type A, 24 modules of type B, and 4 modules of type C. The longest element measures 5.5 meters, while the average length is less than 2 meters.

1. Timber primary structure (20x15 cm)
2. Timber secondary structure (10x10 cm)
3. Timber flooring (with masi geometries potentially developed with the community)
4. Timber roof supports
5. Rigid panel
6. Rainproof membrane
7. Rails support for PV
8. Standard size monocrystalline PVs
9. Metal profile between PVs
10. Profile for protection & aesthetic
11. Gutter for efficient rain collection



Module A



Module B