



camping house

*foldable & adaptable
future of micro-housing*

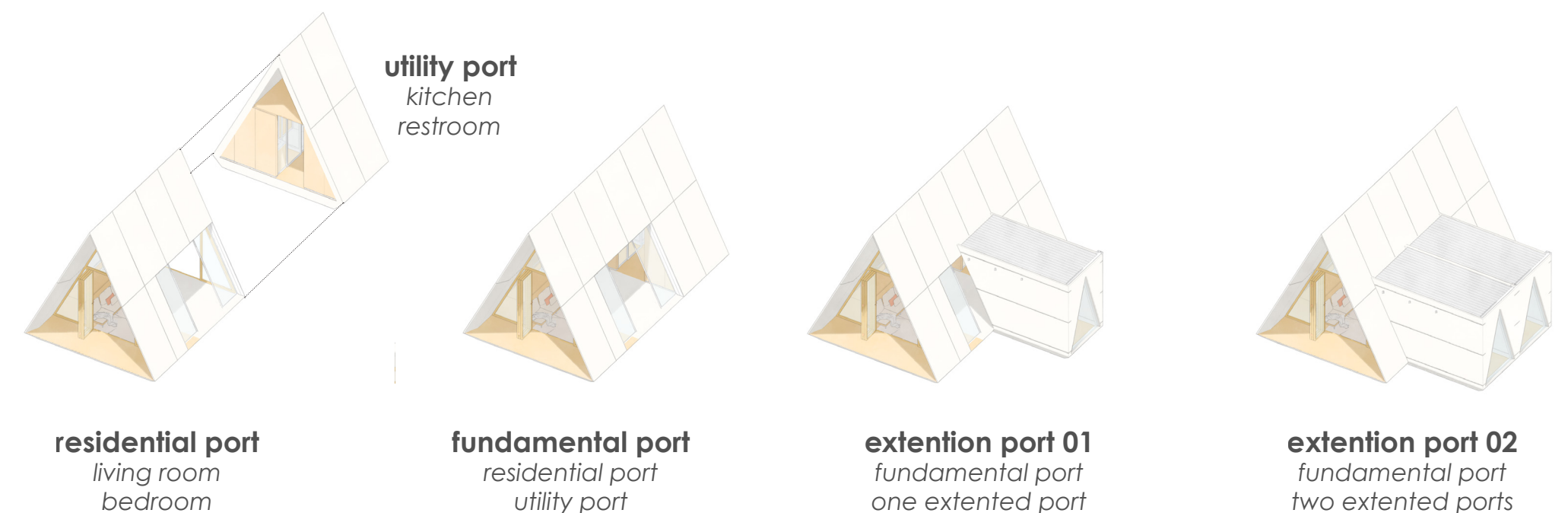


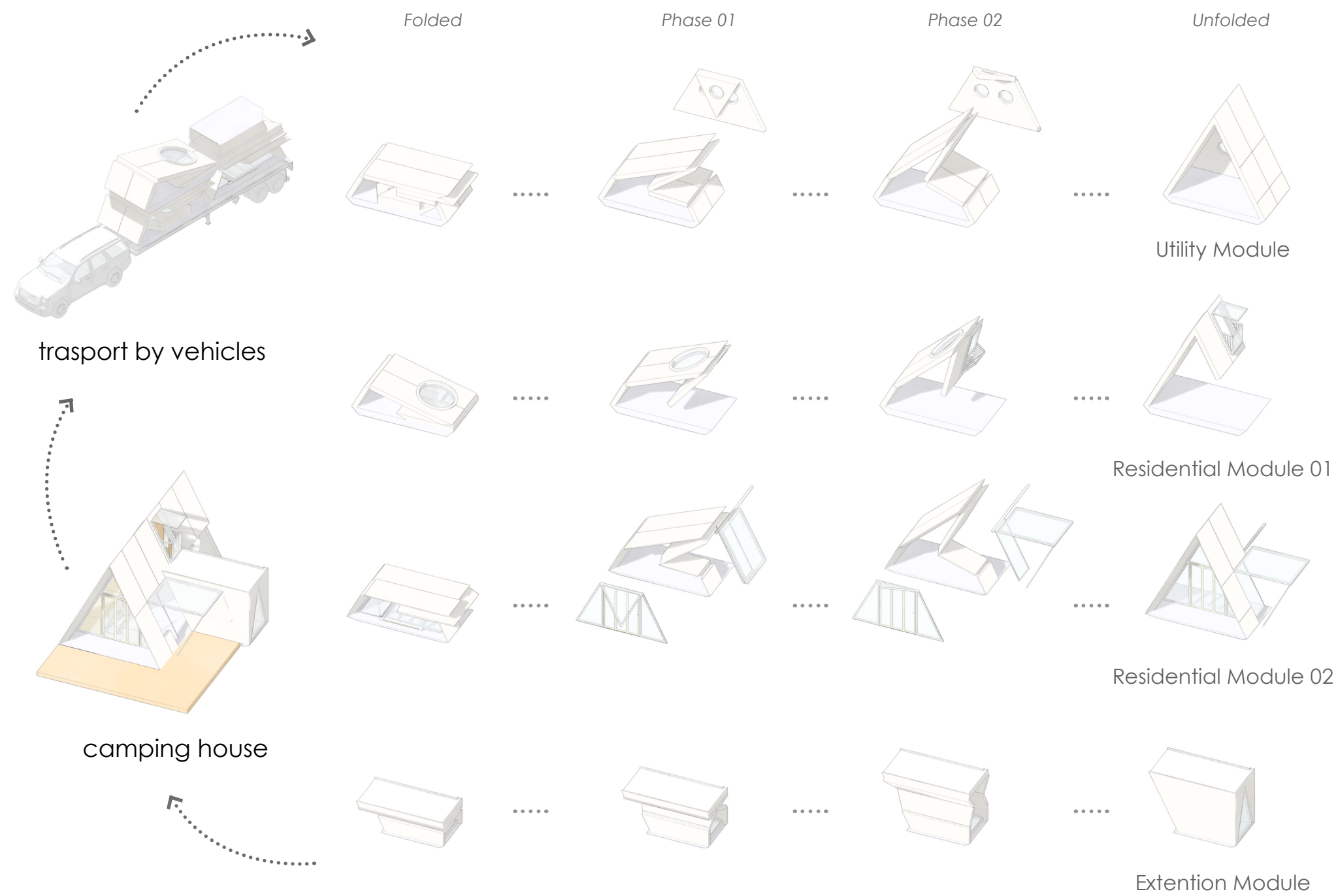
Camping House fuses two proven ideas—the tent (fast, foldable, portable) and the module (precise, attachable, upgradable)—to create a home that travels by car and deploys in hours. Instead of treating mobility as an afterthought, we design the entire building as a kit of Ports that click together and unfold with a calm, choreographed motion.

Camping House is a road-towable micro-home that unfolds like a tent and lives like architecture. Three attachable “Ports” make the system: (1) Residential Port with transformable living/sleeping, (2) Utility Port with kitchen and restroom, and (3) Extended Port that clips on for workspace, gear, or guests. Arrive by car, stabilize, release the hinges, and the shell fans open; furniture flips from day to night in seconds. Designed for year-round forests, deserts, or coasts, Camping House leaves a light footprint, runs off-grid, and folds back up when you go—enabling remote work, seasonal migration, disaster relief, and low-impact eco-tourism.

Why it matters. People increasingly work remotely, travel seasonally, and seek nature without scarring it. Camping House enables low-impact dwelling: no permanent foundations, minimized site grading, and reversible anchoring. It supports climate-smart living with roof-integrated PV, battery storage, rainwater capture, and cross-ventilation aided by a solar chimney flap. Materials emphasize durability and circularity: recyclable aluminum frame, bio-based insulation, replaceable claddings, and repairable fabric membranes. When a community faces wildfire, flood, or housing shortages, fleets of Camping Houses can serve as rapid shelters that feel dignified—private rooms, real kitchens, real restrooms—then relocate as recovery progresses.

Season-agnostic comfort. In summer, deep eaves and the membrane awning create shade and outdoor rooms; in winter, high-R panels, thermal-break frames, and airtight gaskets retain heat. Glazing sits where views are maximal and losses minimal; night blinds and insulated floor panels boost performance after dark. Above all, folding and unfolding are intuitive and fast: stabilize, unlock, swing, click. The house performs like equipment and lives like a home—giving future nomads the freedom to go anywhere responsibly and to leave no trace but good stories.





Construction Phases

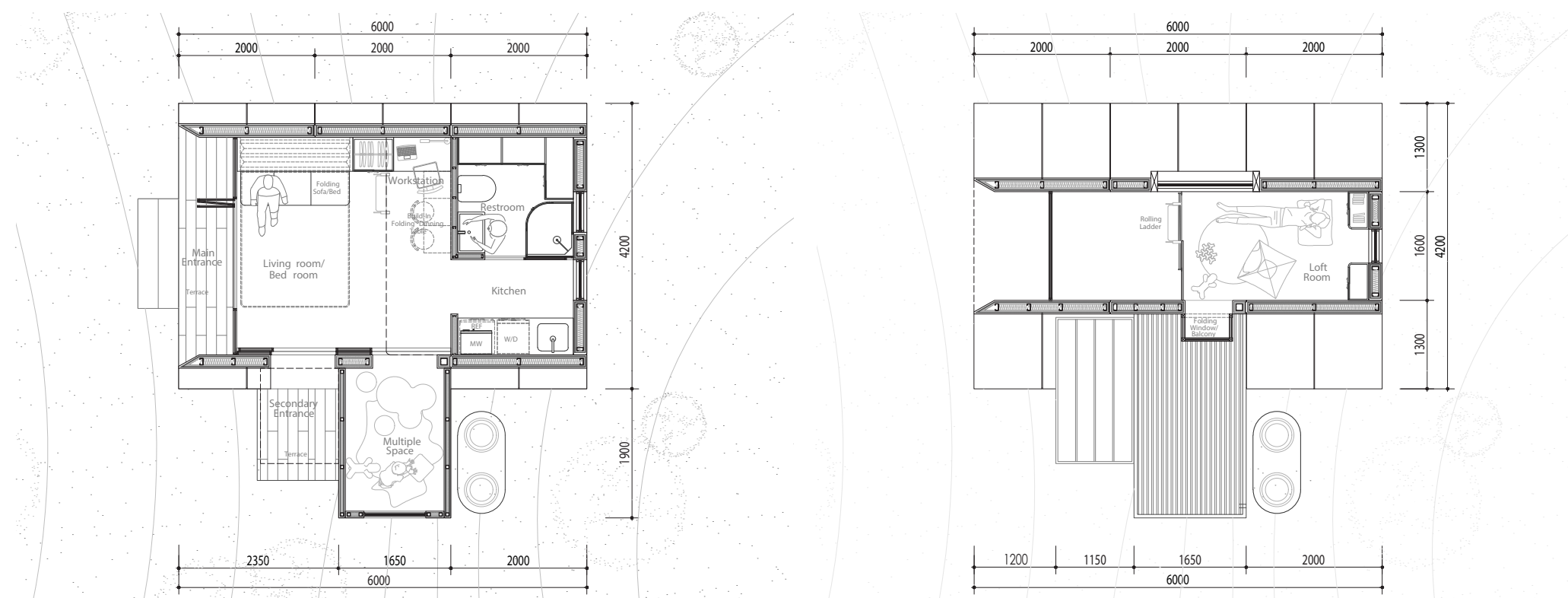
The Residential Port is the heart. By day, it's a compact lounge with a folding sofa, drop-leaf table, and integrated storage. By night, the sofa slides and locks flat to become a full bed; privacy screens pivot out; soft task lights dim for circadian comfort. Floor rails and quick-latch hardware make each piece effortless—no wrestling, no tool kits.

The Utility Port concentrates the “heavy” functions—galley kitchen + wet core—to simplify plumbing, maintenance, and heat/moisture control. A cassette toilet or composting unit, greywater filtration, and a high-efficiency induction cook-top keep systems clean and flexible. A heat-pump unit (heating/cooling) paired with a tight envelope supports four-season use—from summer forests to winter trailheads.

The Extended Port is pure adaptability: workspace, gear bay, bunk room, or screened porch. It docks to the Residential Port via a weather-sealed hinge and expands under a rigid-soft hybrid canopy: insulated panels where you need performance, fabric membranes where you want breeze, views, or stargazing.

Camping House is a car-towable micro-home that unfolds like a tent and lives like architecture. Three attachable Ports—Residential, Utility, and Extended—click together, seal tight, and adapt to place, season, and use. The envelope pairs high-R insulated panels (e.g., King-span QuadCore™ Karrier with ventilated cassette façade) and gasketed fold lines; an optional PV-integrated roof panel provides power off-grid.

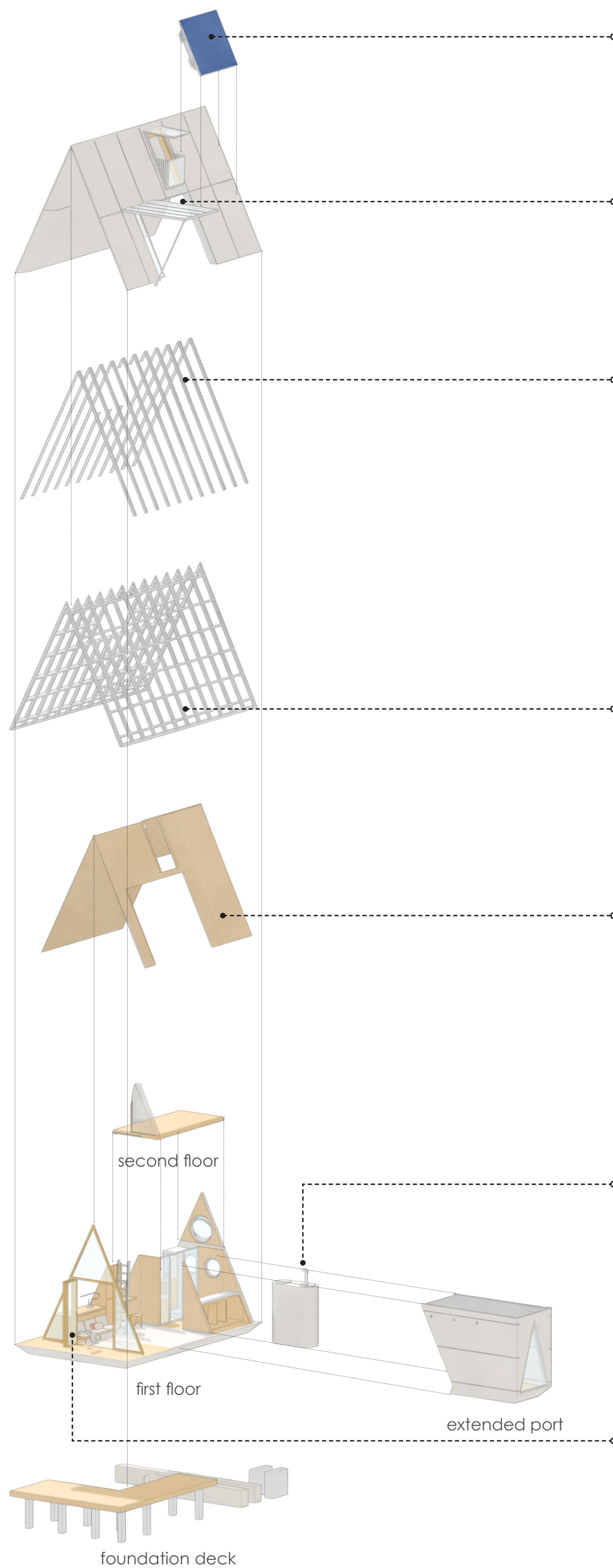
Unfolding is simple: stabilize feet, release color-coded latches, and swing the shells on gas-assist hinges. In the Residential Port, day mode is lounge + table; by night, the sofa slides into a full bed, privacy screens pivot, and insulated blinds drop. The Utility Port opens to a compact service spine: galley folds down, shower panel swings, and water/power connect via quick couplers; a heat-pump and high/low vents keep comfort steady, with diffuse daylight from a translucent panel (e.g., UniQuad®). The Extended Port docks as a studio, bunk room, or gear bay under a rigid-soft hybrid canopy.



First Floor Plan

Second Floor Plan





1. QuadCore PowerPanel

Combines structure, insulation, waterproofing, and electricity generation in one layer—ideal for off-grid micro-homes.

2. Briteway Canopy

Diffused daylight where privacy matters (bath/kitchen) and a quick, bright entry canopy. "Glare-free light by day, insulated by night; canopy extends living outdoors."

3. Kingspan facade system - cassette with Karrier panel

This rapid-build aluminum cassette system offers stunning aesthetic flexibility and is mounted on Kingspan's Karrier insulated wall panel system.

4. Facade support system

Use Karrier as the insulated, structural panel; hang an aluminum cassette as the rain-screen. QuadCore foam = high thermal performance, light weight, fast install.

5. Kingspan steel frame system

Paired with leveling feet/quick anchors for minimal ground disturbance. "Precision light-gauge frame with reversible anchors—no permanent foundations."

6. Troldtekt Acoustic Ceiling Tile

Warm texture + sound control in tiny volumes; runs seamlessly across folding lines. "Natural, sound-absorbing lining: quiet days, calmer nights."

7. Rainwater Harvesting Water Tank

Simple greywater filter. Slim tanks hug the frame; great for off-grid stays. "Slimline rain capture + greywater reuse—lighter footprint, longer stays."

8. UniQuad Window

A range of steel slimline water tanks suitable for urban dwellings, helping homeowners reduce water usage and conserve this precious natural resource.



