 $\sqrt{2}$ 

1-1 SECTION

2-2 SECTION

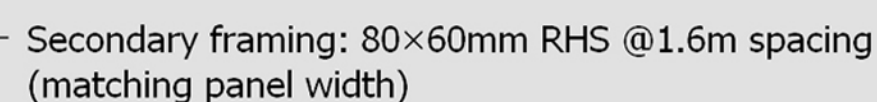
The interior of local residences in Fiji

1. Form-Based Wind Resistance

- Aerodynamic form disrupts vortex shedding

Eight prefabricated petal units (including a complete photovoltaic system),
with on-site hoisting time no more than 3 days per module

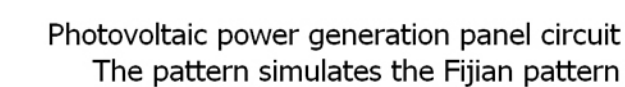
- The lower space can be used as an emergency shelter (self-powered for 72 hours)



- Secondary framing: 80×60mm RHS @1.6m spacing (matching panel width)

Foundation Reinforcement concrete Isolated footings + grade beams
(C30 with anchor bolts)
Octagonal floor beams (500×800mm) with 8Φ20 longitudinal bars
Embedded anchor bolt assembly (4M24 per column, burial depth 600mm)

—Reinforcement concrete floor beam(foundation)



The surface of the photovoltaic panel:
Custom matte blue-black, simulating
the gradient effect of the deep sea in Fiji,
with a reflectivity of less than 15%.

Roof garden and roof skylight

The doors and Windows adopt the local bamboo weaving style

- The profiled steel sheet keel is covered with thatch skin