VIEW OF THE GALLERY ON THE SECOND FLOOR. NOTICE STEEL GRID FLOOR, VISUALLY CONNECTING THE FIRST FLOOR AND SECOND FLOOR GALLERY.

VIEW ON STAIRCASE AND SECOND FLOOR GALLERY. BAMBOO GROWING BETWEEN THE HOUSES.

VIEW FROM THE FRONT DOOR PORCH ON OUTDOOR LIVING ROOM AND FIRST FLOOR GALLERY.
1. **Bamboo Beam, Gigantochloa Apus** - Diameter +/- 12 cm

2. **Bamboo Column, Gigantochloa Apus** - Diameter +/- 14 cm

3. **Aluminium Column Clamps**, preventing the Bamboo Column from kinking

4. **12mm Aluminium Disk** incl. 4 rubber padding to carry the Bamboo Columns

5. **Four layers of 4 adjacent 12mm Aluminium Spider-Disk** incl. rubber padding. Each Aluminium Spider-Disk is individually adjustable to clamp onto a Bamboo Beam, resolving its variances in sizes.

6. **Aluminium Beam Clamps** - Making sure the 2/4 Bamboo Beams function as one. These clamps are placed on the beam every 1.5 meter and some are also connected to a floor or ceiling panel.

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1. **Aluminium Screw-on Support Element**, carrying the prefab floor elements.

2. **Aluminium Beam Clamps** - Making sure the 2/4 Bamboo Beams function as one. These clamps are placed on the beam every 1.5 meter and some are also connected to a floor or ceiling panel.

3. **Aluminium Floor Structure**

4. **140 mm Acoustic Insulation**, 40% coconut fibres and 60% recycled rubber from car tires, pressed into a stiff element.

5. **21°C Tap Water System**, through 20 mm prefab FermaCell elements.

6. **9 mm Albesia Wood Flooring**.

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**West Elevation**

**East Elevation**

**North Facade, Perspective from the Park within the Neighborhood**

**South Elevation**

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**Structural Detail 1**

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**Structural Detail 2, Floor Attached on Structure**

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**Summer North-Sun**

**Winter South-Sun**

8º in Tropic of Cancer

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**Passive Climate Strategies + 38 Degrees Tap Water Floor System + A Fan as Single Active Cooling System**

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**Rain Water, Grey Water & Black Water Strategies**