



Plan view from above the project

(garden sta

image from

Amazon.com

About \$1/ one

5ft long piece)

Α

Parts

Unit

All drawings with 1:35 scale

0.5m

Rhombohedral

addredation

Module

Stacking from top to bottom (feeding units)

avoid using a ladder or mechanical lift)

from the bottom to

Plan cut at 45" (1143mm) from ground

Garden Stakes Pavilion: A Small Mistake On A Scale Of Structure, Plant, Use, And Human

Construction by animals (like ants, bees, and beavers) repurposes materials like twigs, mud, and leaves, while humans rely on manufactured products for building. Building process in nature is simple without tools, contrasting with heterogenous processes by humans. This highlights the collective intelligence and carbon-neutral ethos inherent in nature.

The Garden Stakes Pavilion showcases the ecology of construction in gardens through the simplicity of stacking, demonstrating novel reconfigurability and recyclability. Each unit comprises three sticks (garden stakes) and interlocking 3D-printed centerpieces. The rhombohedral module of eight units allows limited geometric freedom. All parts will be prefabricated and assembled off-site before delivery. The geometric stacking provides support for climbing plants (runner beans). These plants flower beautifully, offering food for insects and visiting humans.

A small mistake happened to this design. The blocks stack too tall for plants to reach the top in a single season, nevertheless, it offers habitable space for humans and becomes a monument of reversible structure. This system can be easily disassembled for another shape in the next life. Reconfigurability and recyclability is our mode of sustainability and social responsibility.



A suggested plant: Emerite pole beans (a specific type of fast growing and climbing vines can be also suggested by the Garden team)

Site: The proposed project can function effectively in any area of the garden.



Elevation A

Elevation B



A perspectiv rendering showing the garden in its entirety. (Unlisted secure animation LINK)

1:5 scale physical model (PETG with no glue. About 1.2m tall. This is a part of the project, which does not show the entirety of the project.)

1:1 Full scale prototype test (using 16 units)