

# Designing kinship with orchids

ORCHID PAVILLION fundación casa wabi

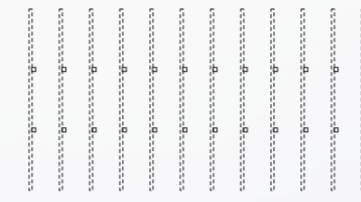
*“To interrogate plants means to understand what it means to be in the world”*  
(Emanuele Coccia, *The life of plants*)

What should we ask the orchids? The condition of the epiphytes plants, like most orchids, is their interdependence, that is, their capacity to live together with other species, not as a parasite, but as companions species. That's what we learn from them: to establish kinship between species.

Our goal is no longer to domesticate plants, but rather cultivate them, which implicates mutual growth. That's why the contemporary condition of design should exercise openings to the plurality of knowledge in a way that architecture can be affected by the intelligence of plants. Understanding how orchids establish kinship relations with other species as a technique to create alliances, makes us wonder

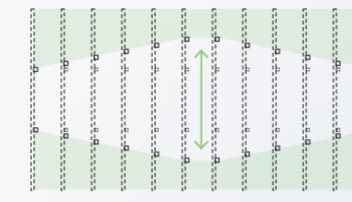
what should be the one used for the Orchid Pavilion in Casa Wabi.

To simulate the tropical atmosphere, we need to create an open shadow. For that, like trees in the forest, we imagine a wooden structural system that consists in twelve frames that support vertical shade cloth tensioned with sand. These frames are stabilized by transverse beams that hang dynamic sticks where orchids should be fixed the way they used to embrace trees. Under the shadow, the position of the pillars creates a clearing in the space to allow educational activities that, among others, stimulate cultivation as a process of making kin with other species.



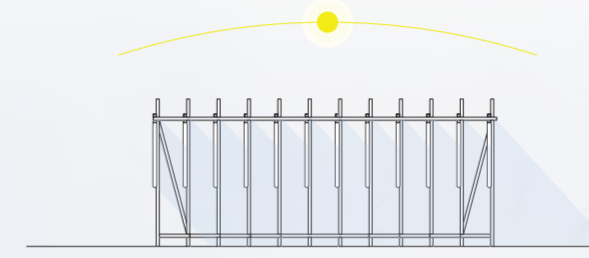
## Wood system

*To make the construction efficient, we propose twelve interlocking wooden frames*



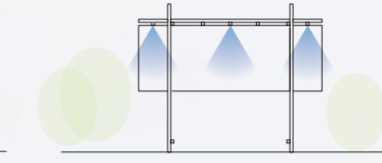
## Clearing

*Pilars are positioned as a clearing to provide space for educational activities*



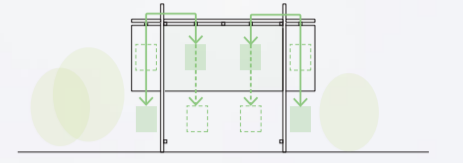
## Open shadow

*To provide shadow to the pavilion 12 parallel 1.5m high shade cloths will be tensioned with sand*



## Tropical atmosphere

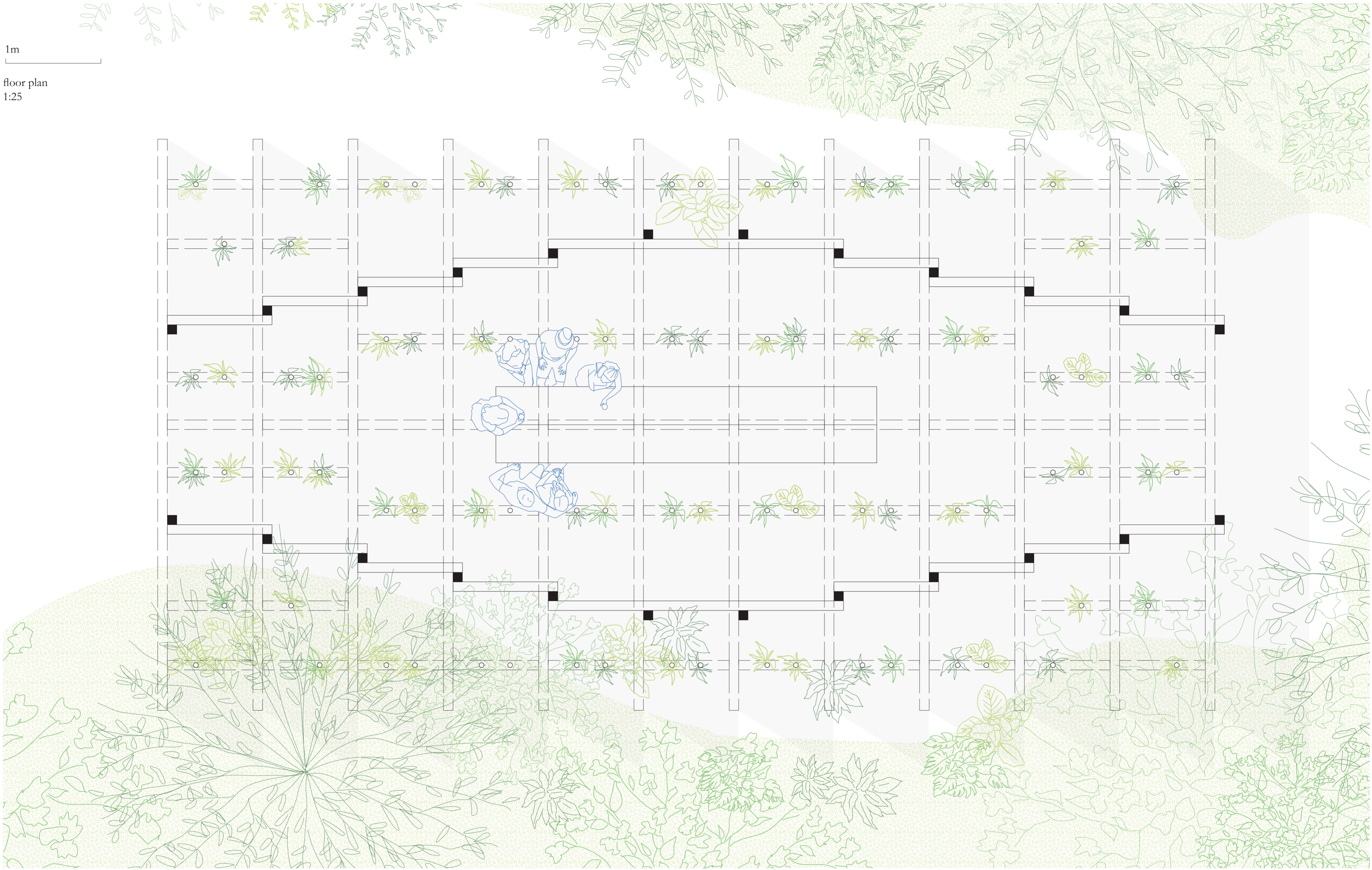
*To provide humidity for orchids its necessary to allow sprinkler system with simple spray nozzle*



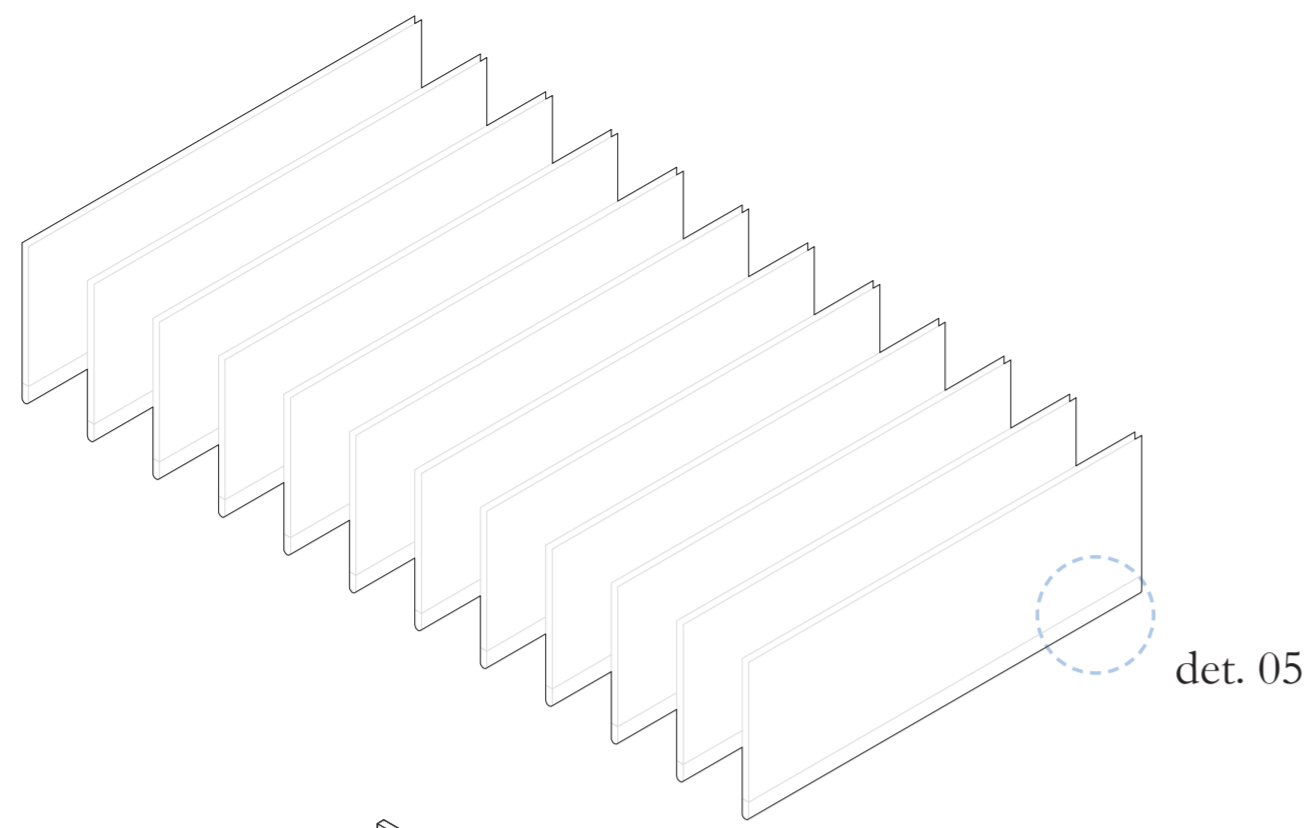
## Dynamic space

*To allow a dynamic space the orchids will be hung by a steel cable that can be adjusted to different heights*

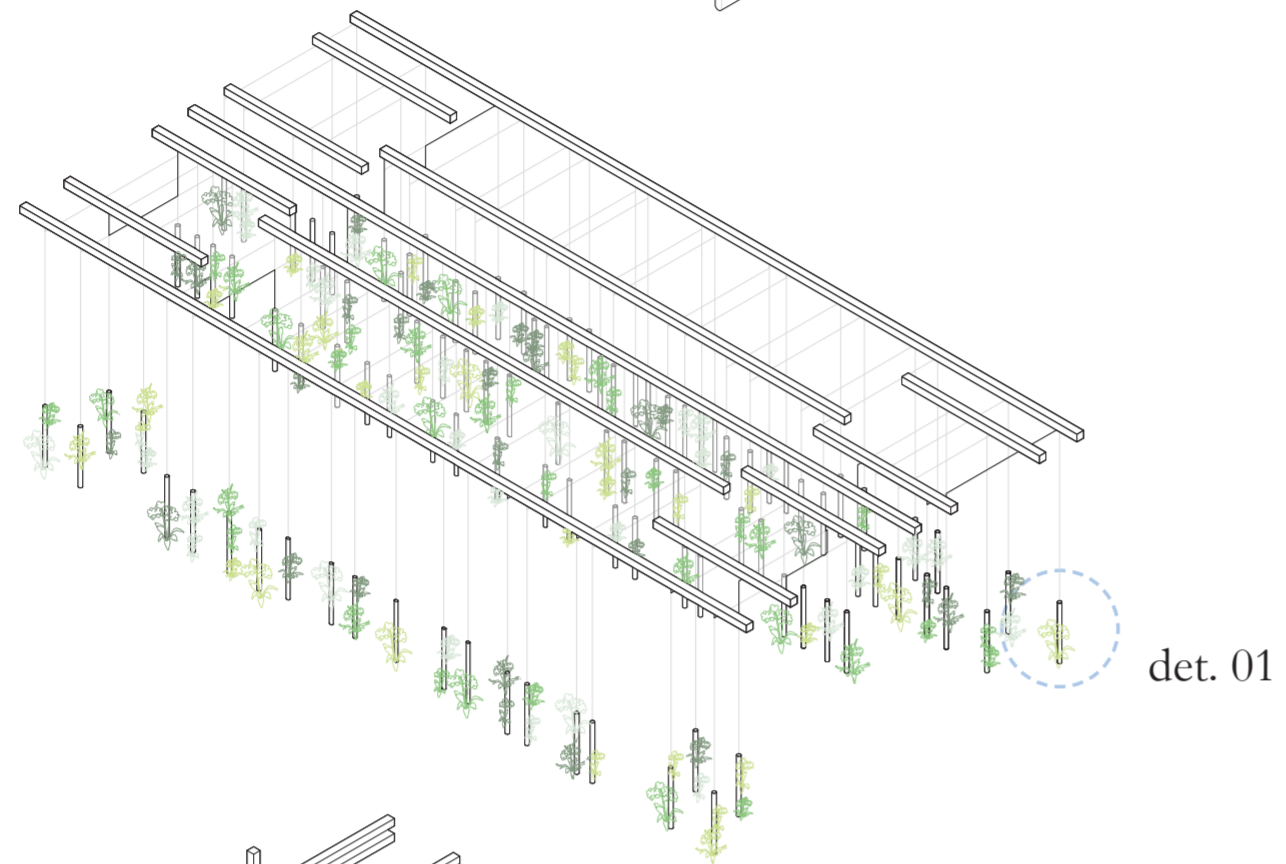




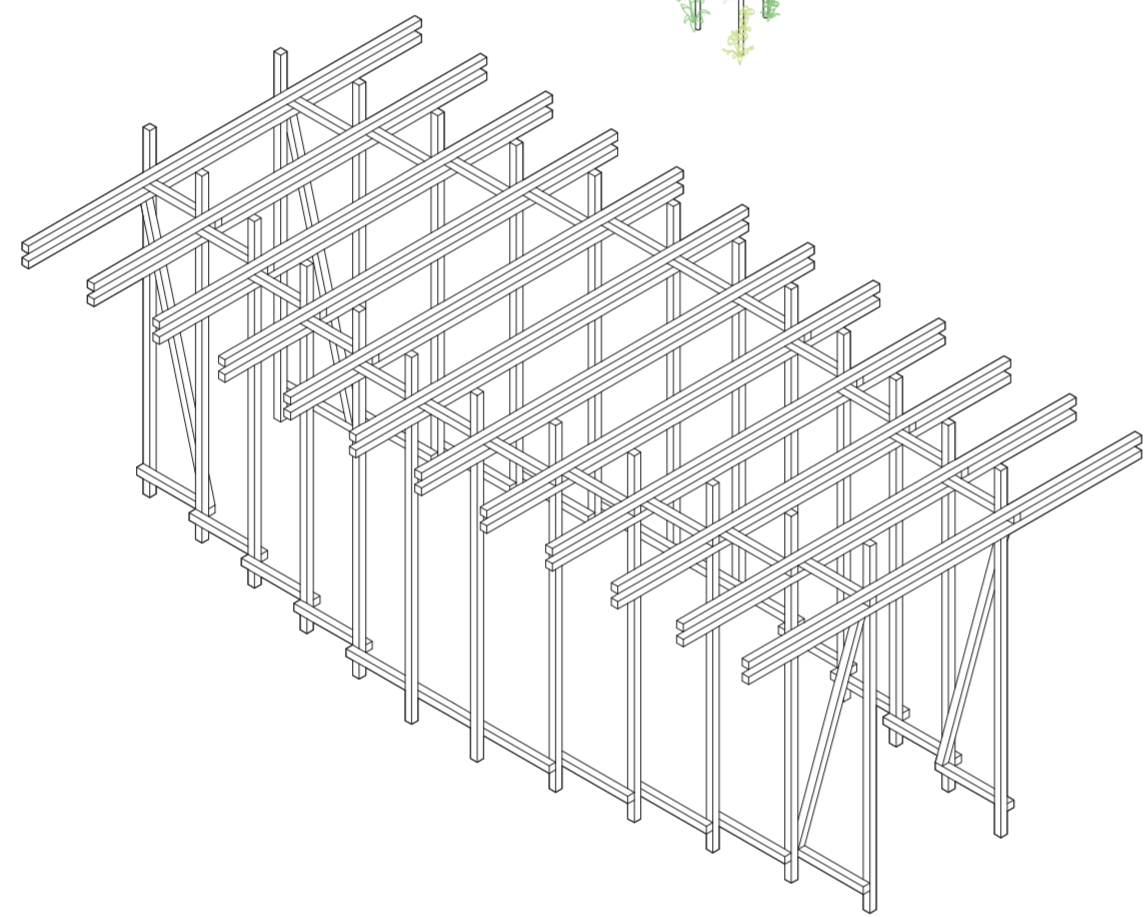
shade cloth



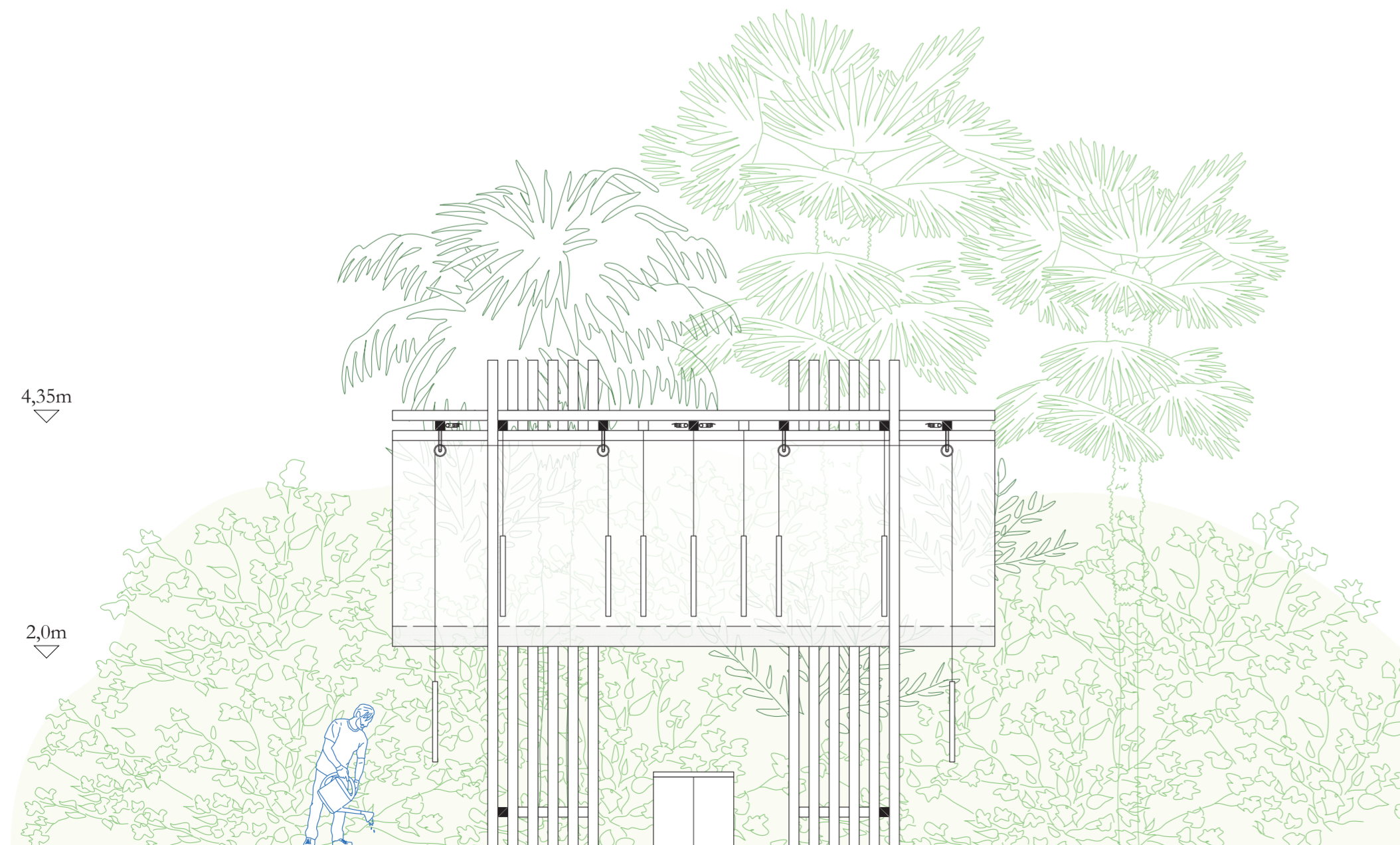
orchids fixation



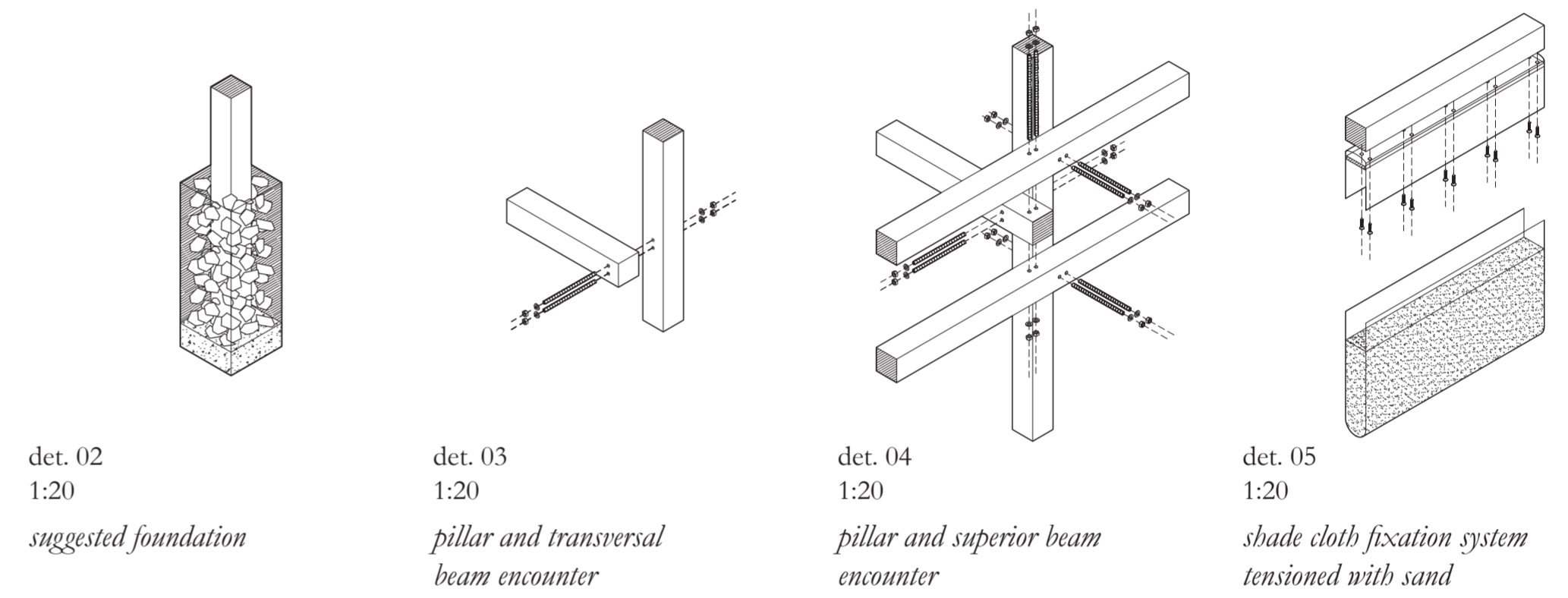
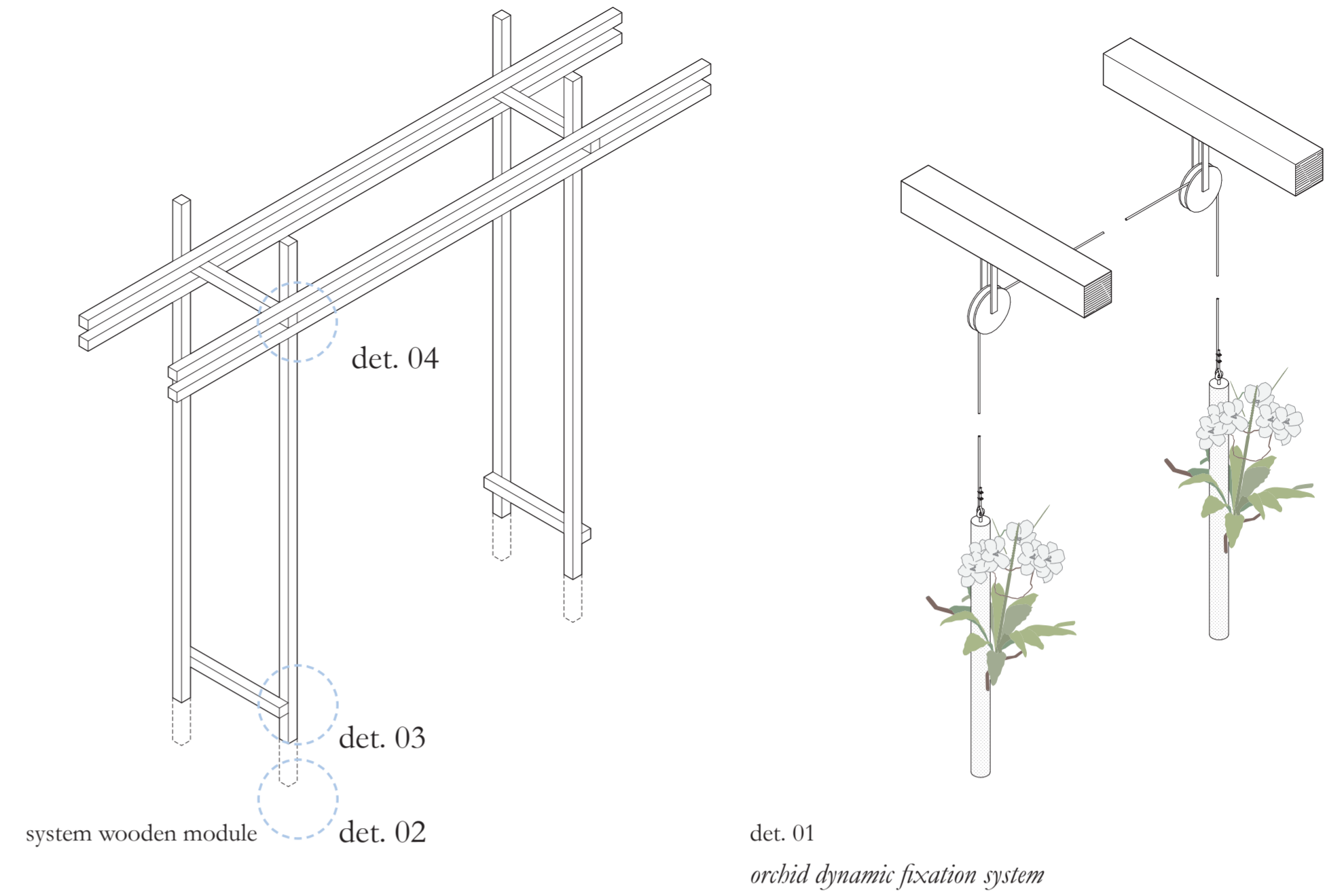
wooden structure



perspective  
1:100



1m  
transversal section  
1:50



<b>wood frames</b>	12	Wood frames		<b>threaded metallic bar</b>	94	30cm	<b>sticks</b>	44	Pair of wood cylinder (80cmx Ø 2cm)
	2	Beams	(10x10x600cm)		72	20cm		88	Pulley (suggested)
	2	Pillars	(10x10x600cm)		16	30cm		44	Steel cable (suggested)
	4	Diagonal pillars	(10x10x390cm)		10	20cm		384	Metallic threads
	6	Principal	(10x10x555cm)	<b>shade cloth</b>	12	Unit (415x600)	<b>sprinkle</b>	1	Hose (40m)
	44	Secondary	(10x10x110cm)		16	Secondary bench (10x10x110cm)			

longitudinal section  
1:50

