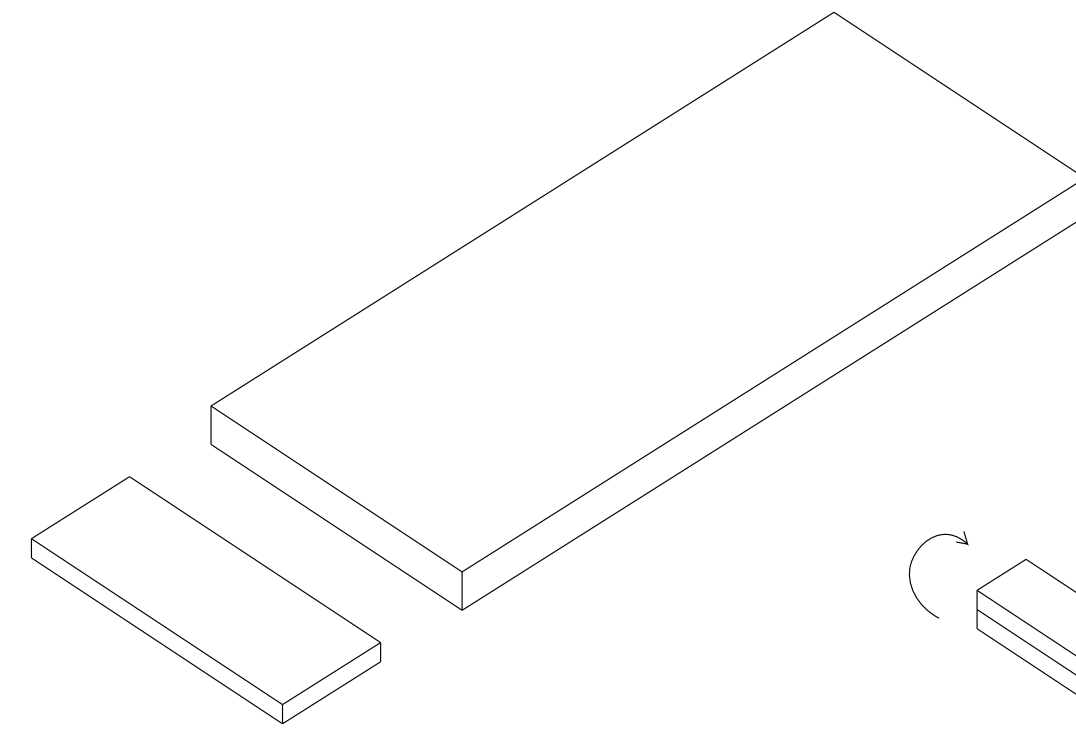
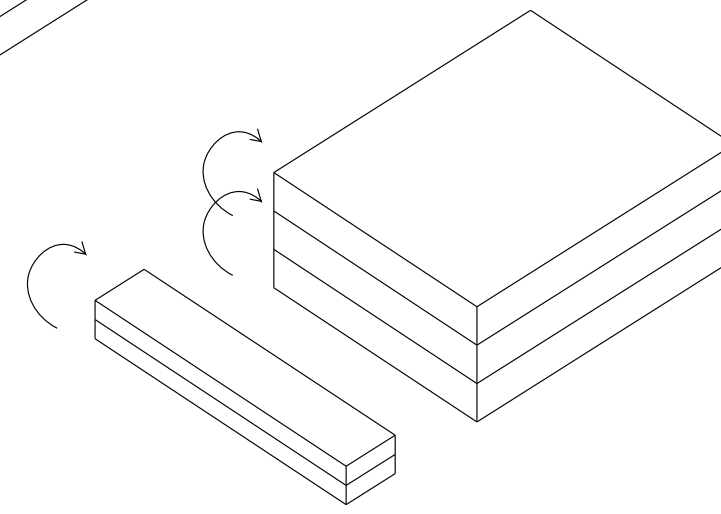


SOY

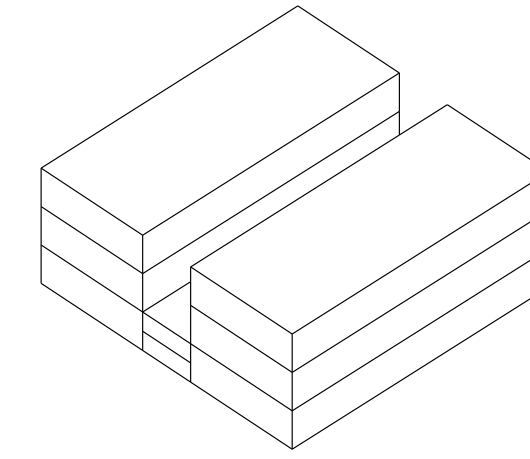
CLENDABOONMAN



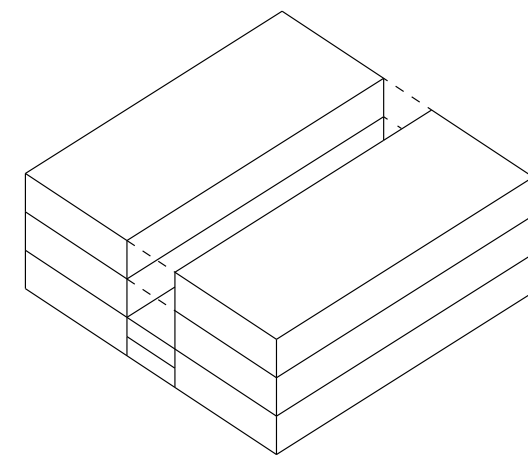
program



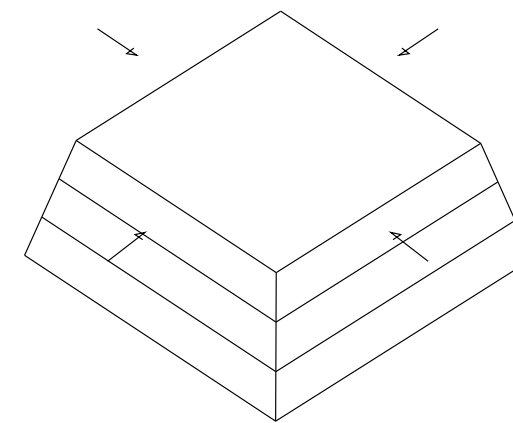
stacking



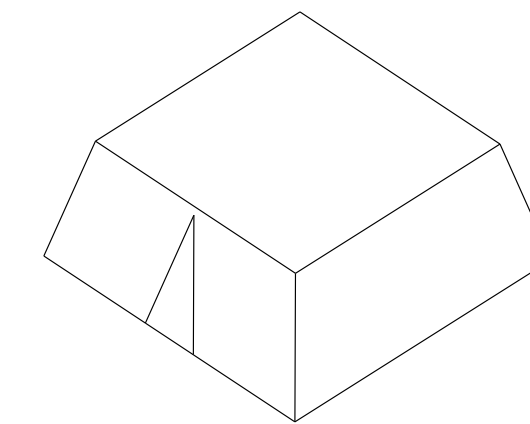
split



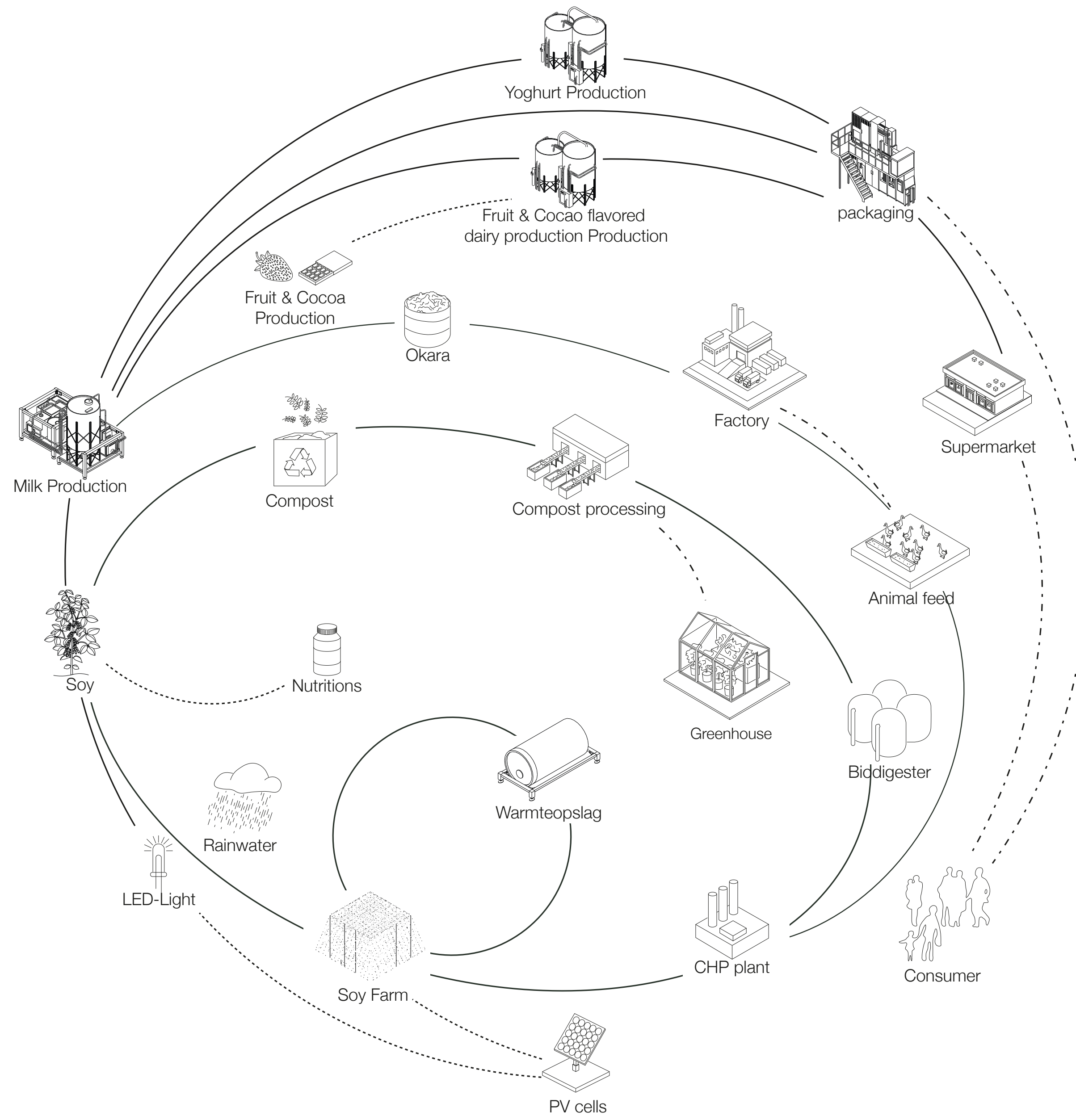
fill up



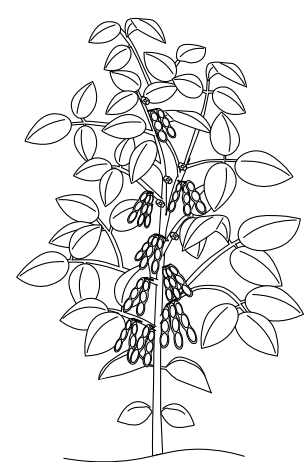
tapering



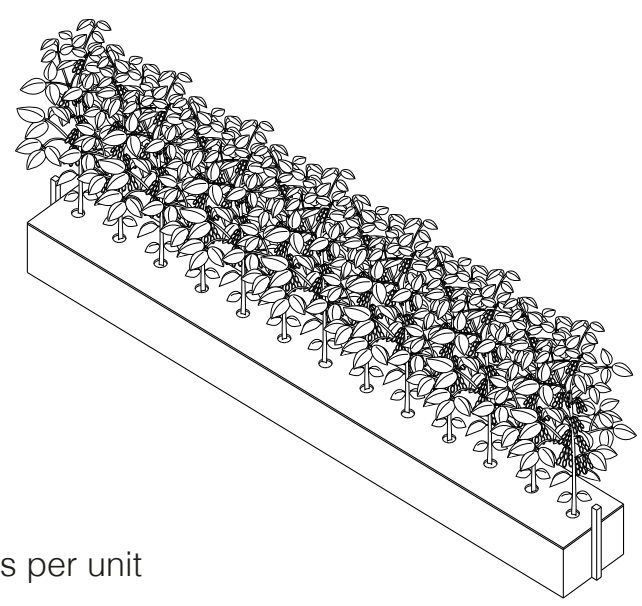
facade



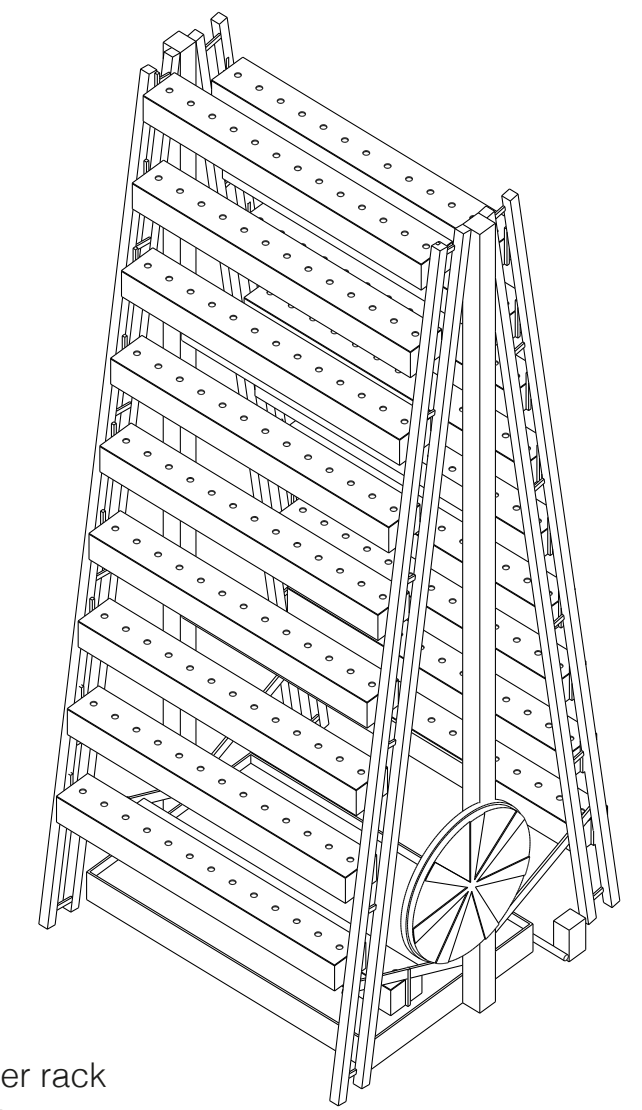
CIRCULARITY



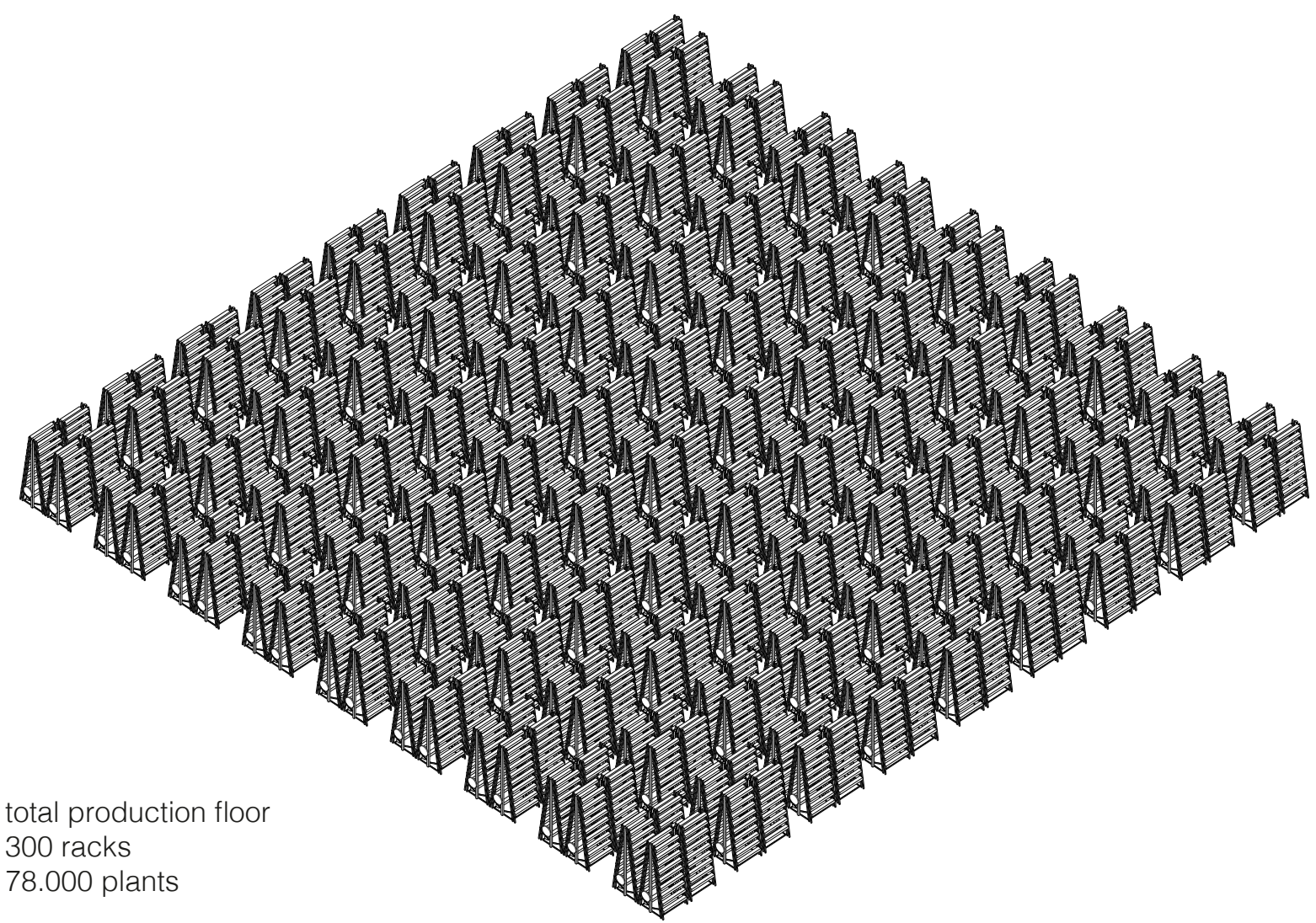
soyplant



13 plants per unit

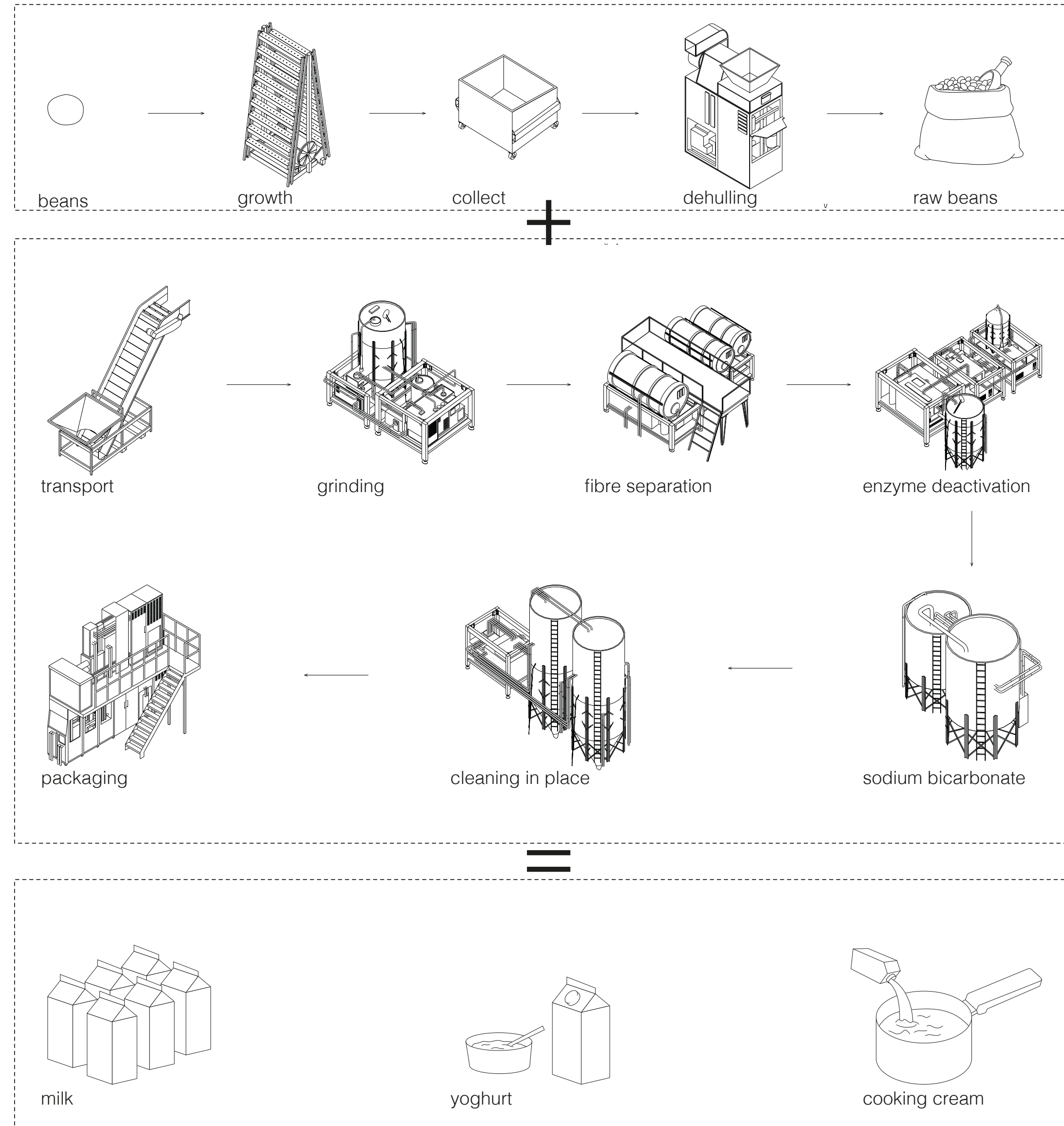


20 units per rack
260 plants

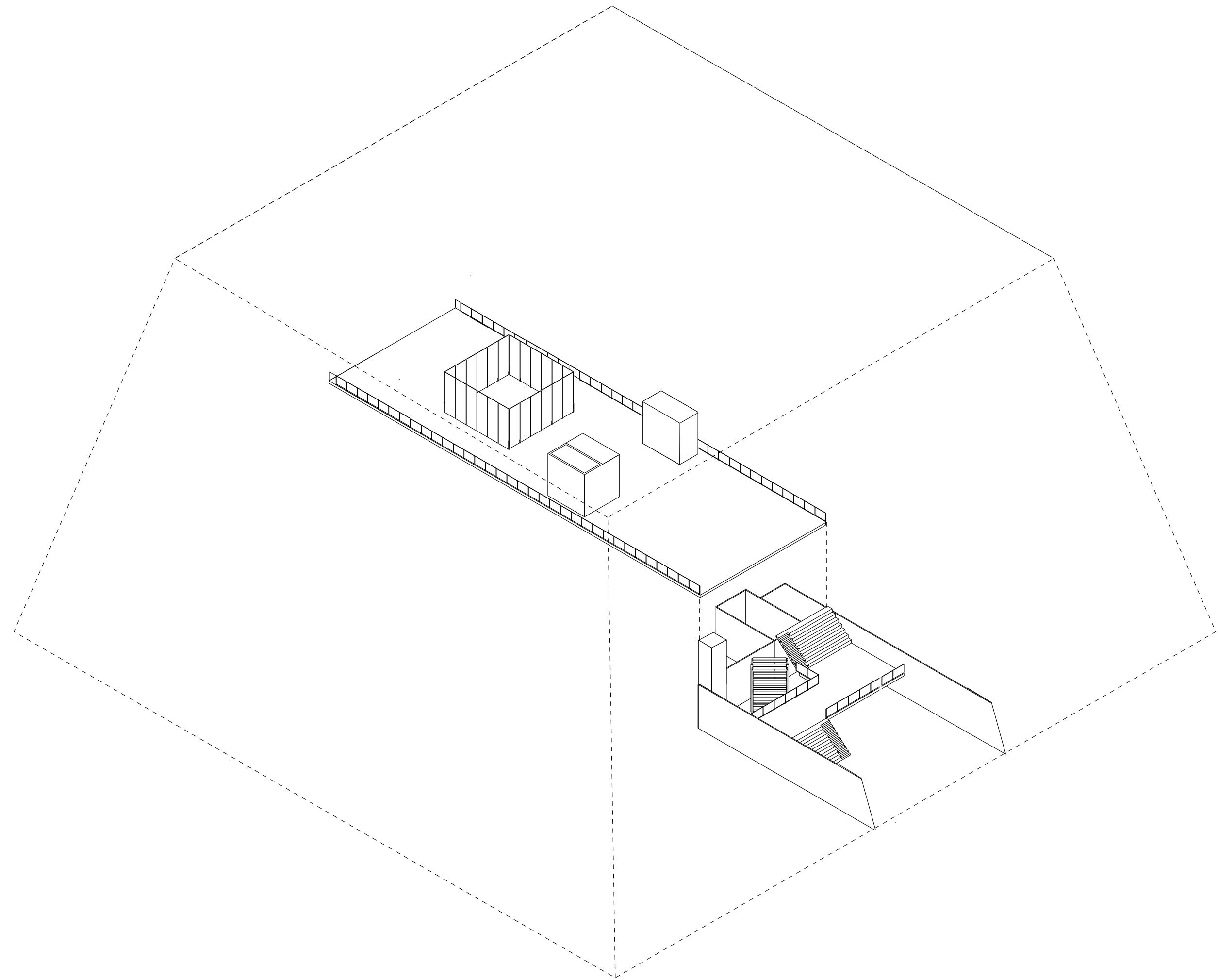


total production floor
300 racks
78.000 plants

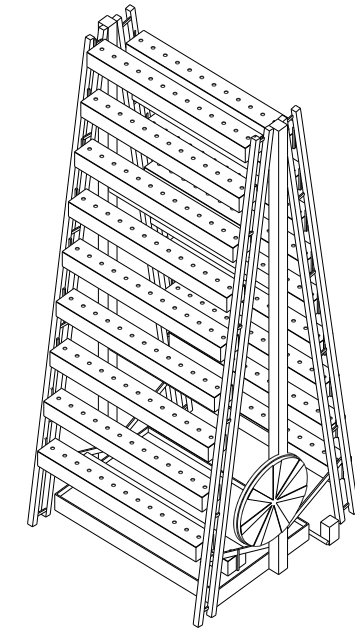
PRODUCTION FLOOR



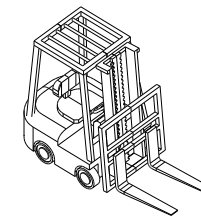
PRODUCTION FLOOR



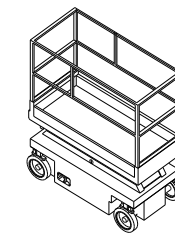
PUBLIC SPACE



plantrack



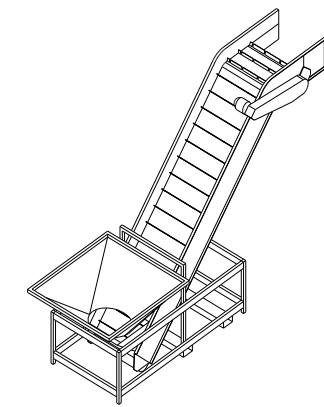
forklift



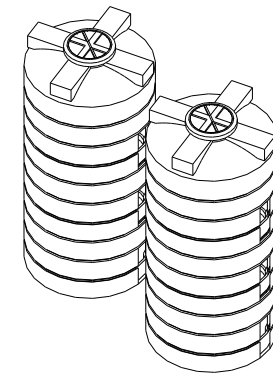
scissor lift



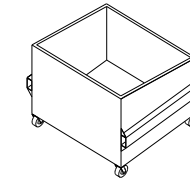
cart



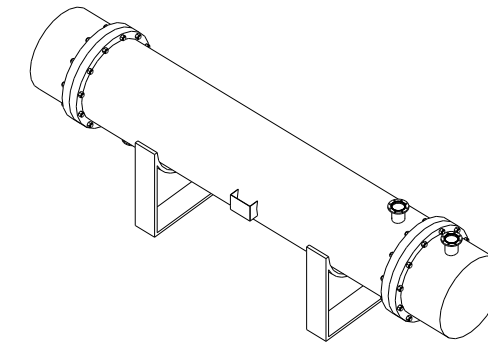
conveyor belt



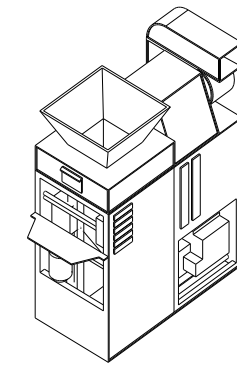
watertanks



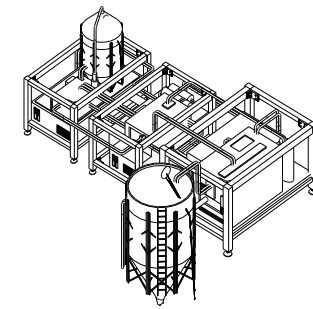
waste bin



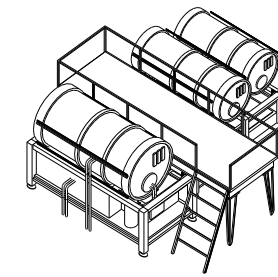
heat exchanger



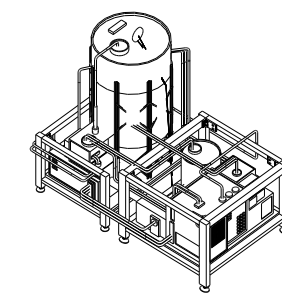
dehuller



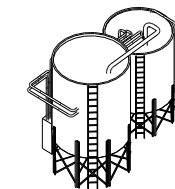
enzyme deactivation



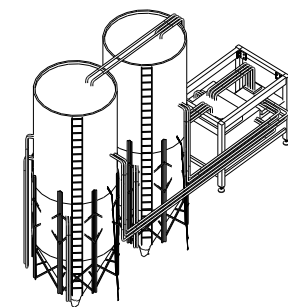
fibre separation



grinder

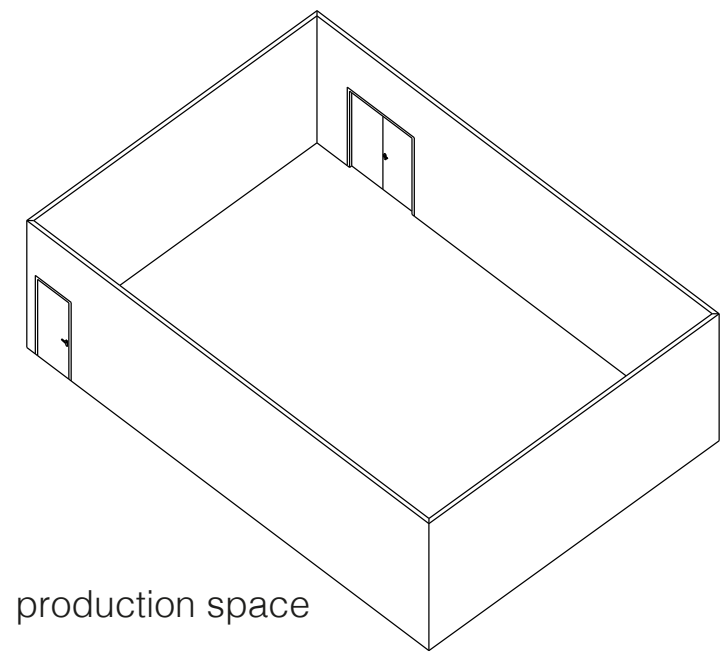


sodium bicarbonate

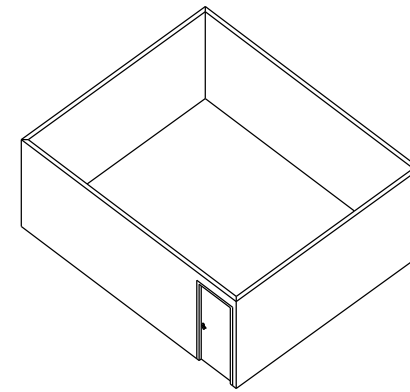


CIP

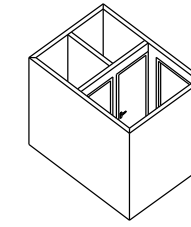
TECHNOLOGY



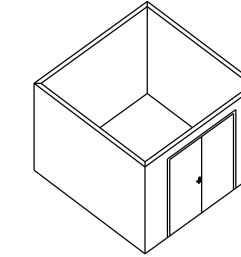
production space



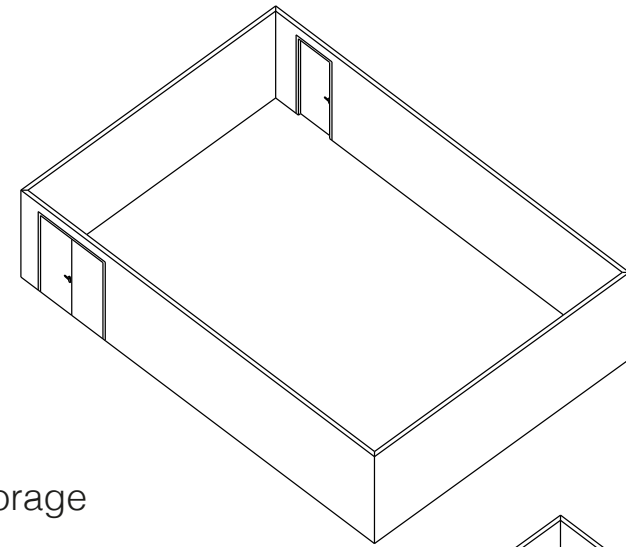
canteen



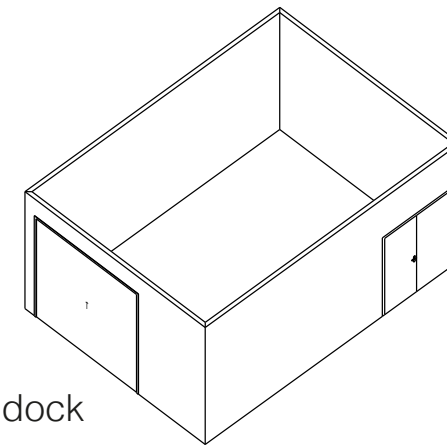
canteen



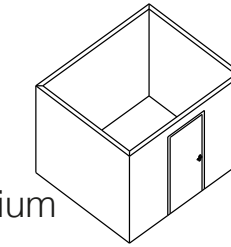
technical space



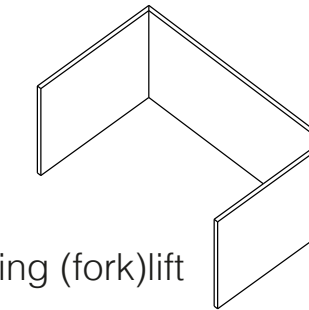
storage



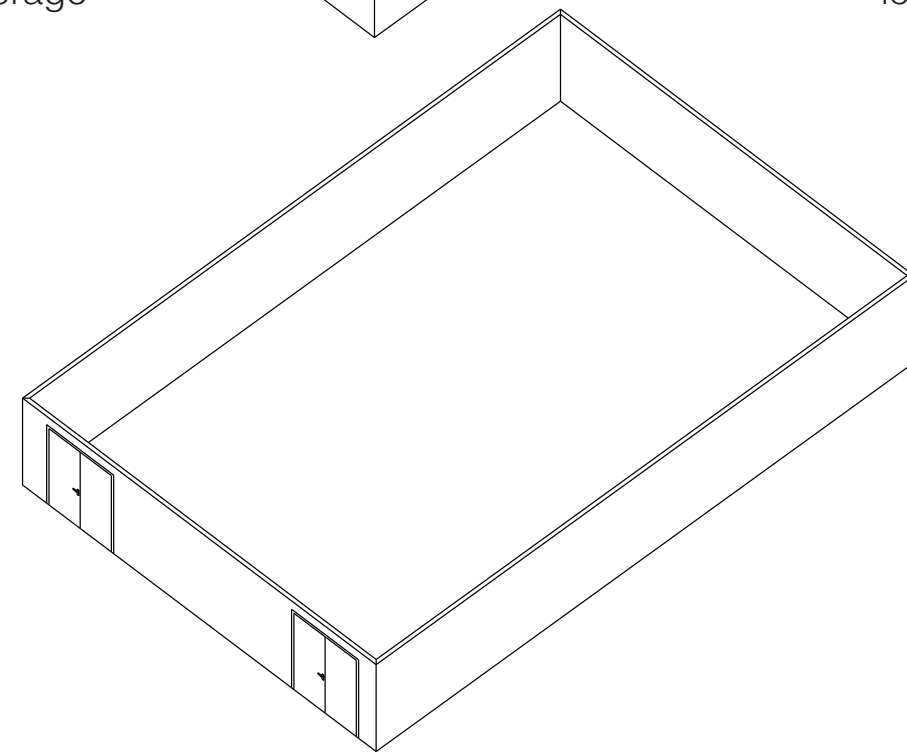
loading dock



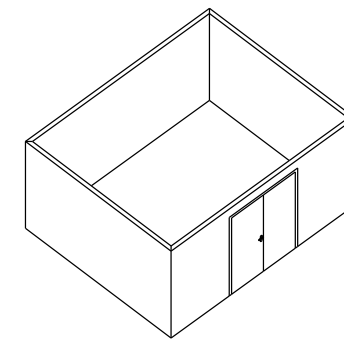
laboratorium



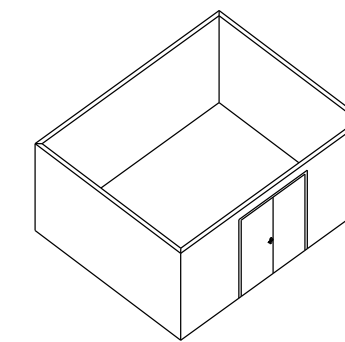
parking (fork)lift



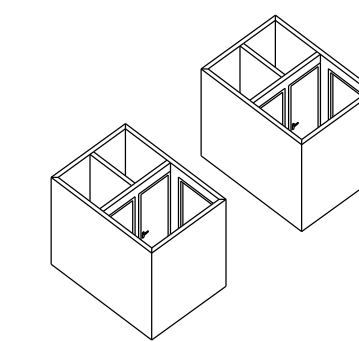
experience centre



heatstorage

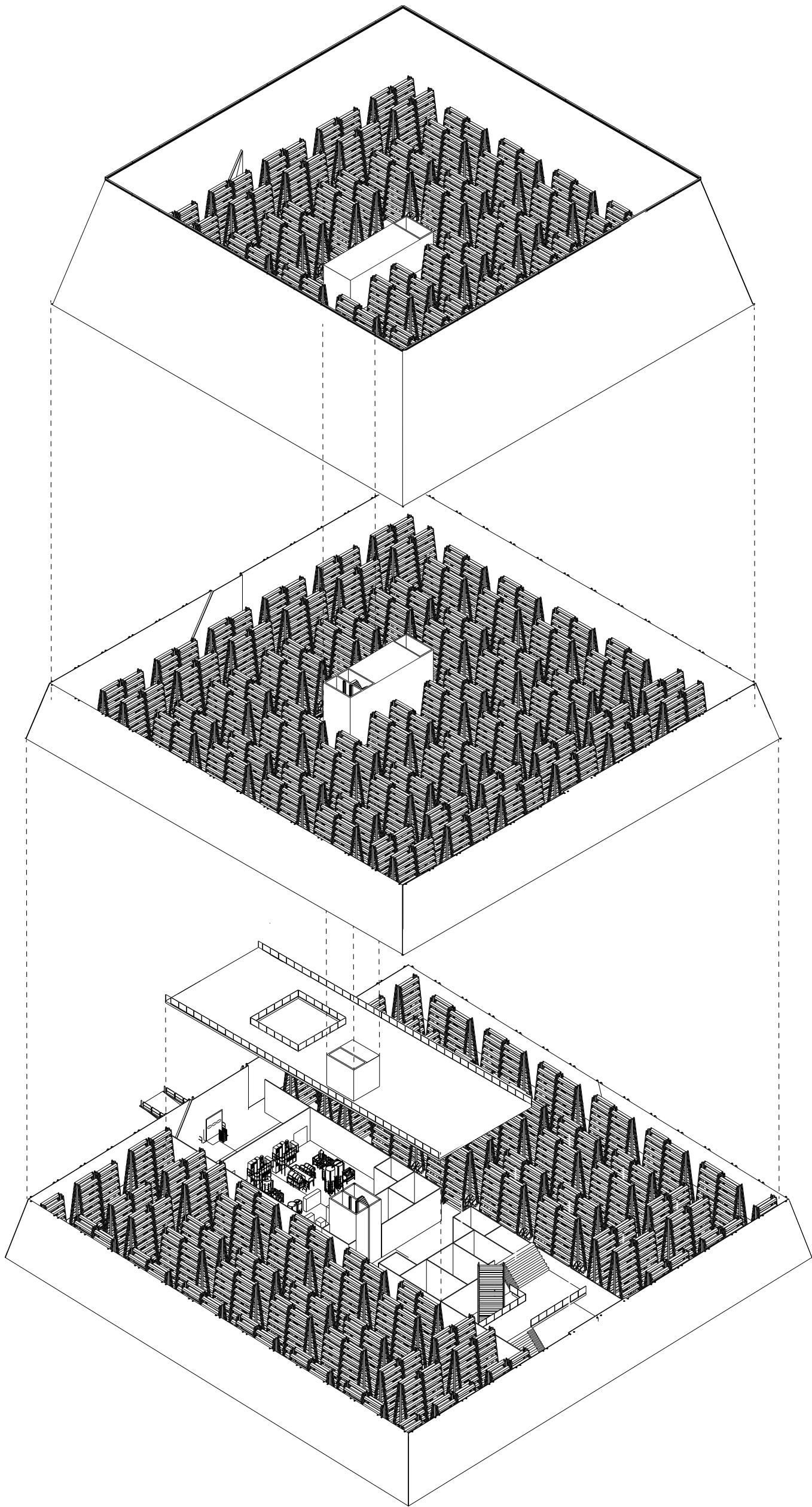


waterstorage

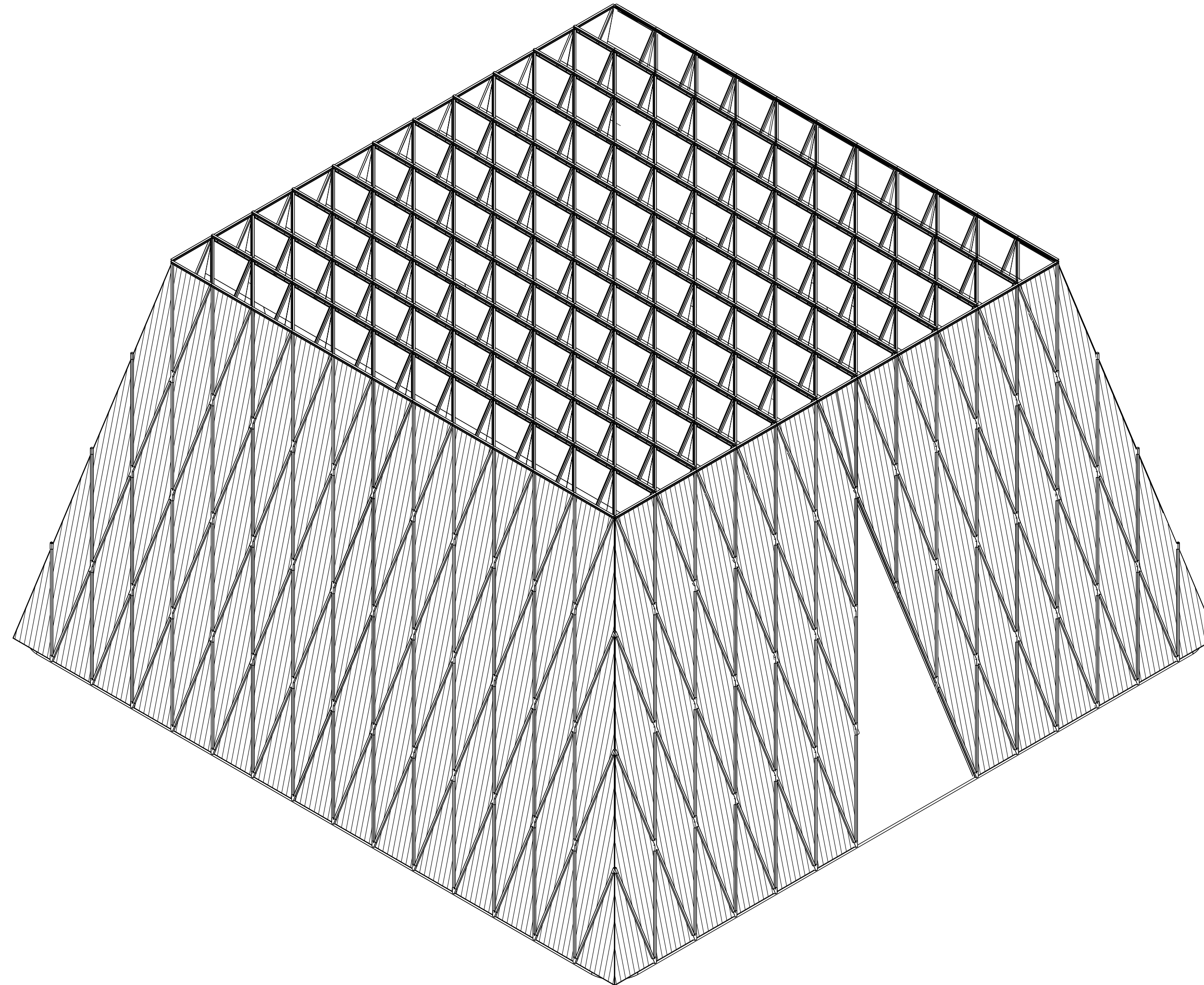


visitors toilet

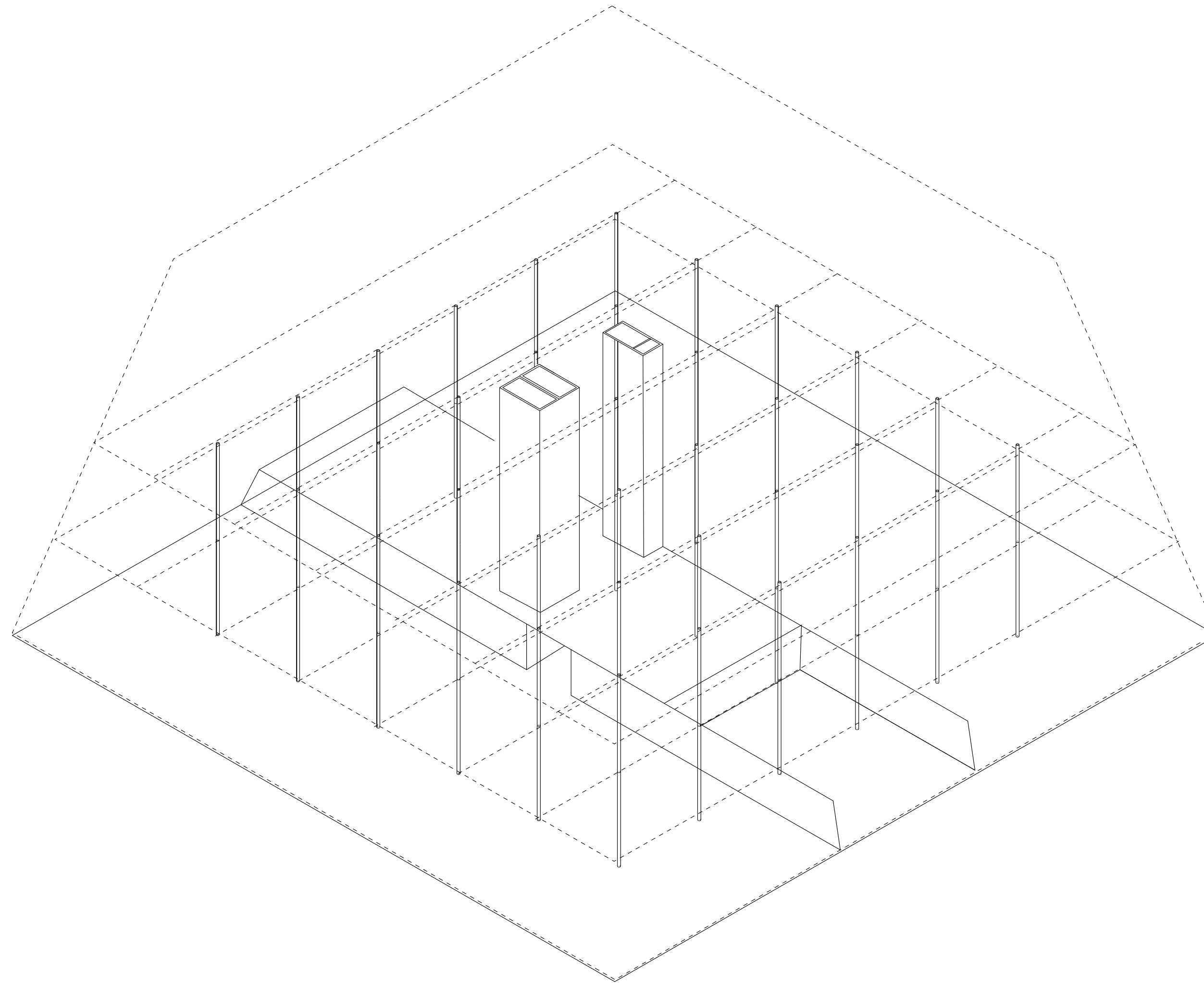
PROCESSING & PACKAGING



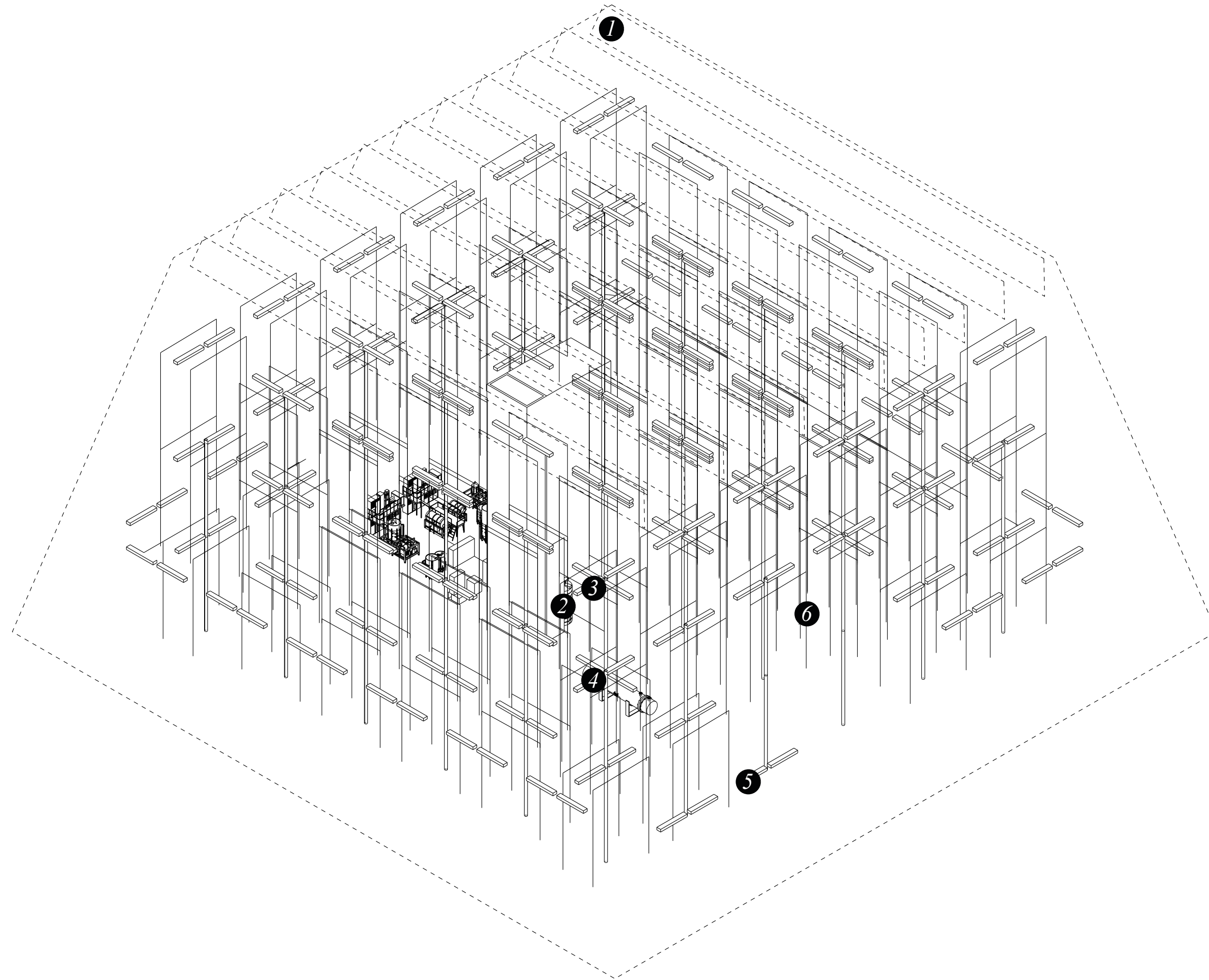
COMPACT MODEL



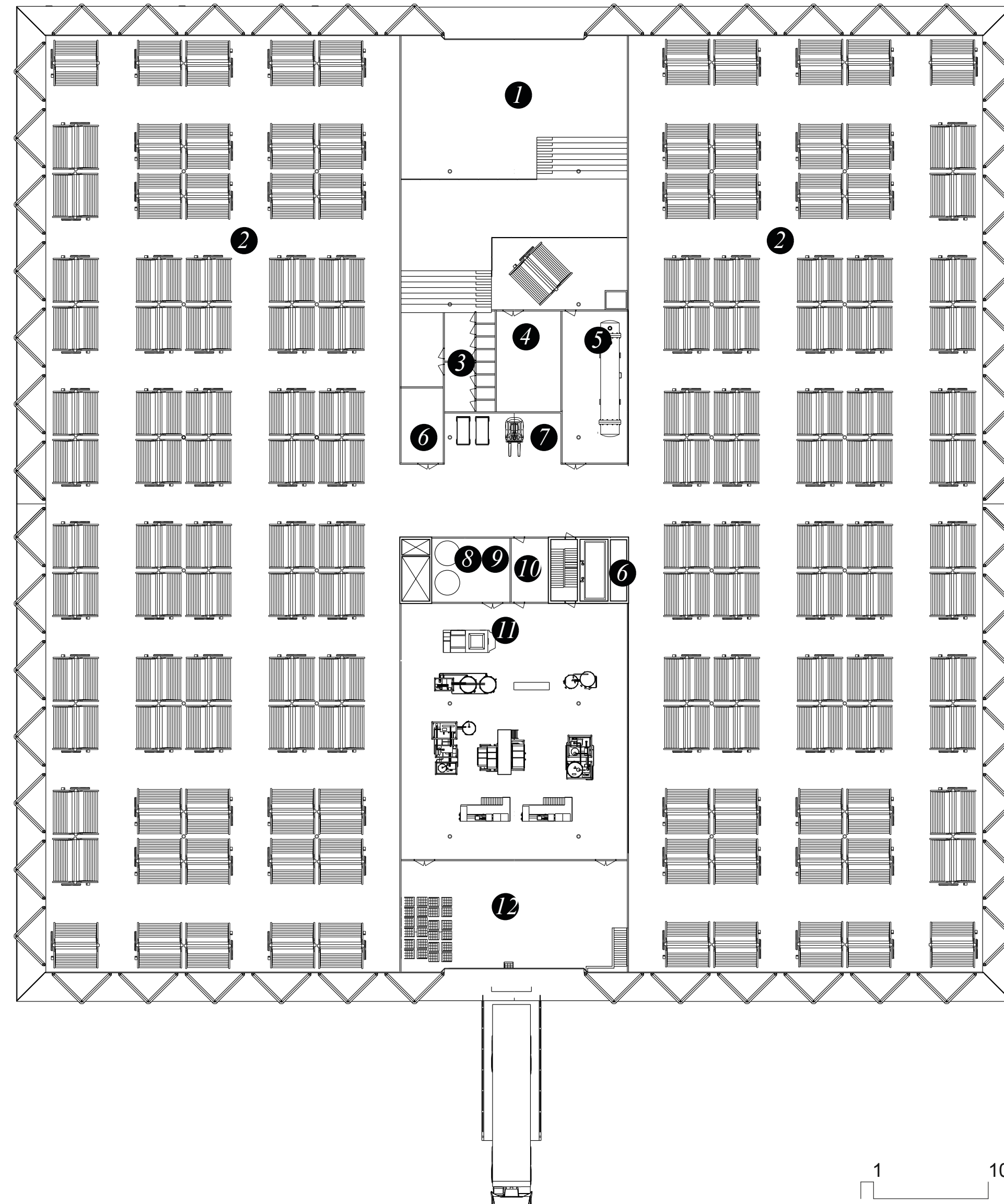
ACHITECTURE



STRUCTURE

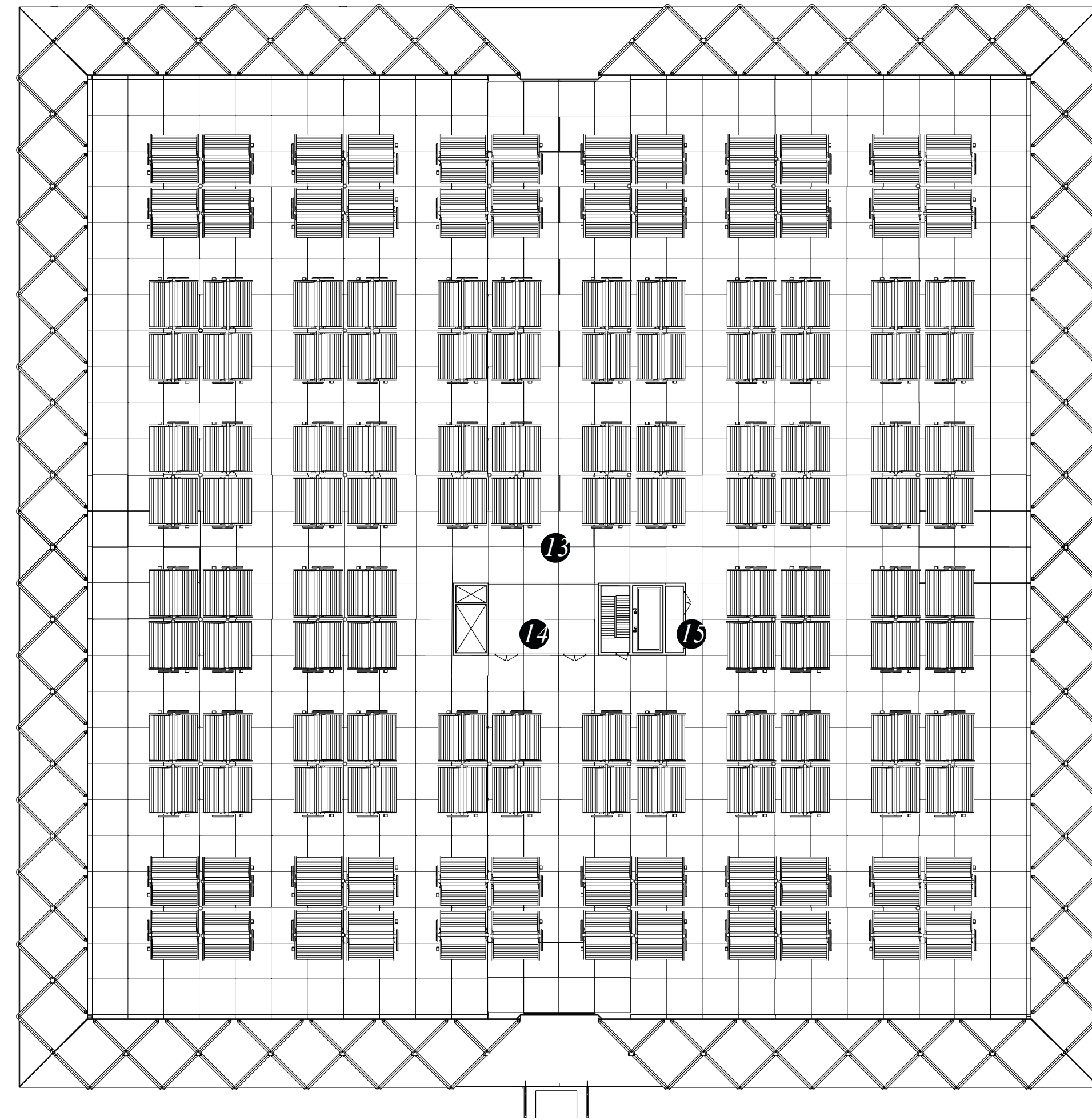


INFRASTRUCTURE



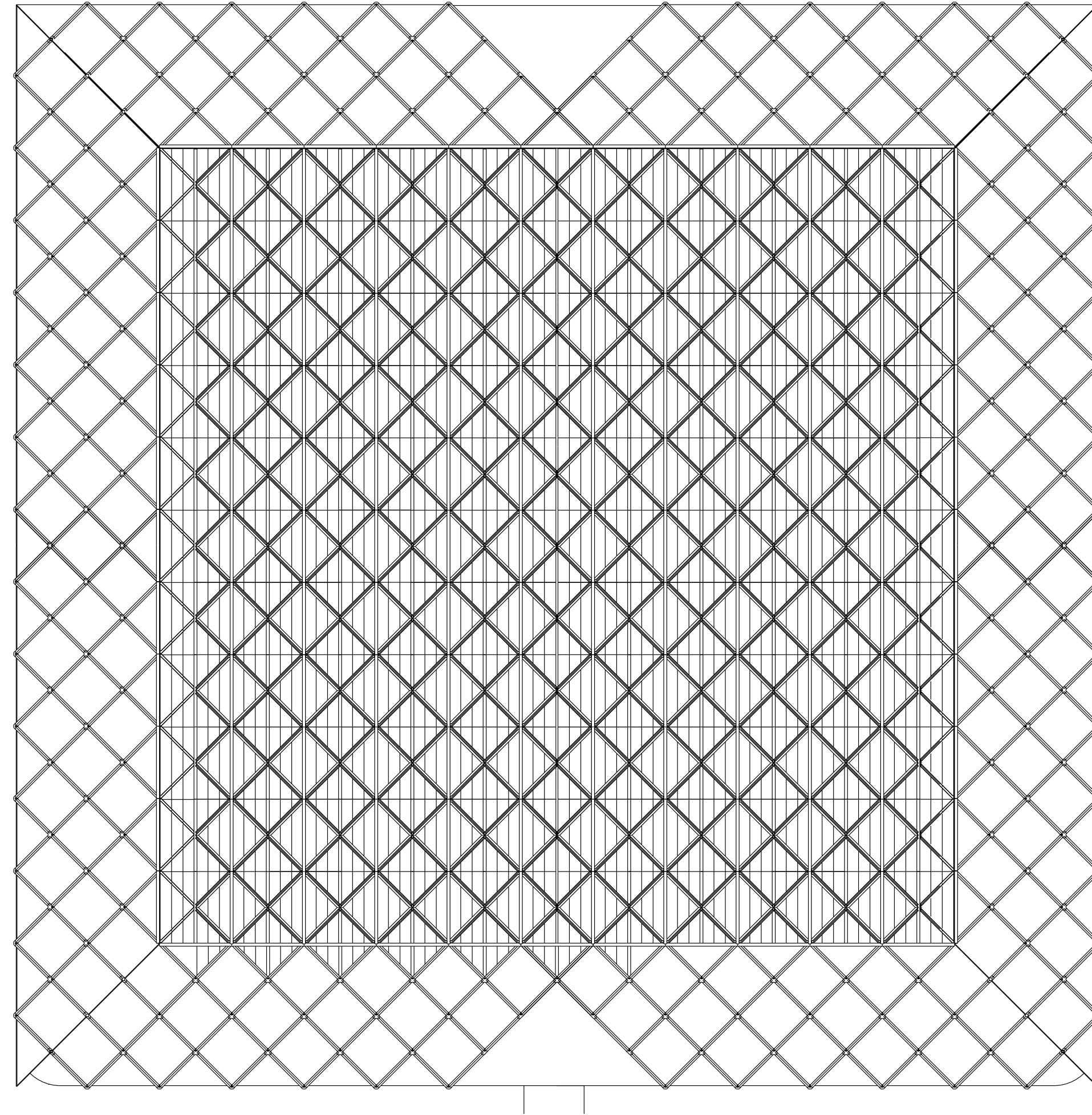
- 1** experience centre
- 2** plant production
- 3** toilets
- 4** canteen
- 5** heat storage
- 6** nutrition storage
- 7** forklift parking
- 8** technical space
- 9** water storage
- 10** laboratory
- 11** production and packaging
- 12** storage/transport

FLOORPLAN 00



- 13 plant production
- 14 cleaning unit
- 15 storage

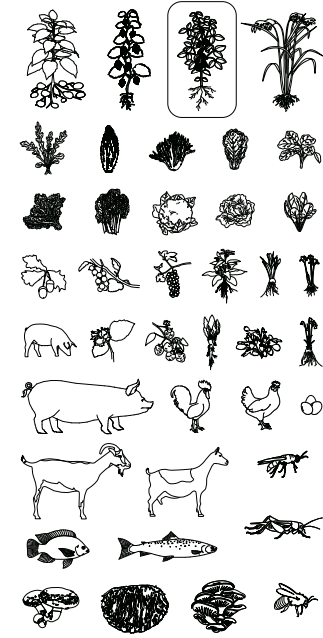
FLOORPLAN 02



ROOF

SOY

CLENDA BOONMAN

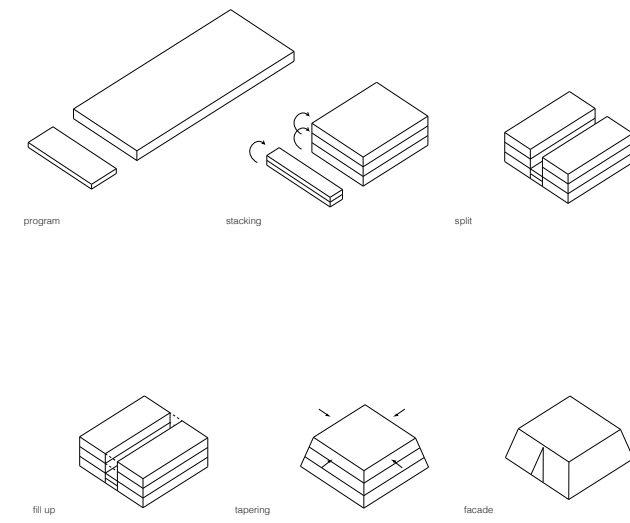


The Netherlands is one of the largest soybean importers. By cultivating it ourselves we can be more sustainable and profit economically. Due to the growing amount of consumers of plant based dairy, there has been an increase in demand for soy as well as a rising demand for more awareness of the origin of our food. SOY is a farm that encompasses the entire production from plant to dairy and produces enough soy based dairy to supply Rotterdam for a whole year. At the centre is the production where all the necessities are located to create real Rotterdam soy dairy.

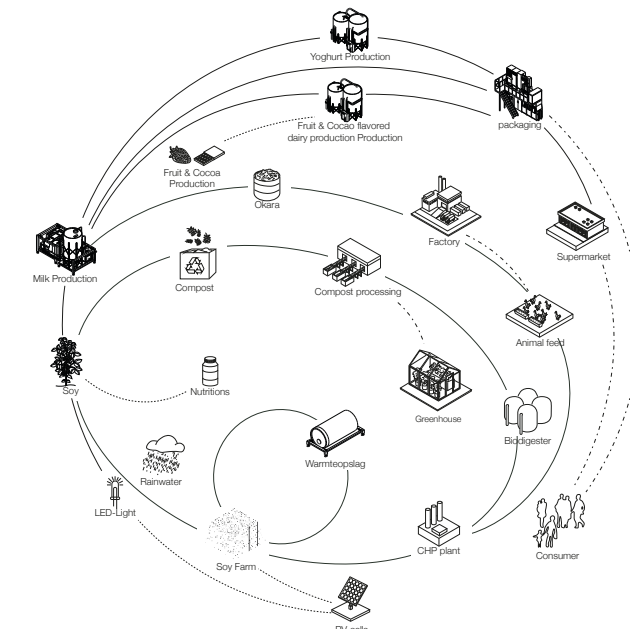
To create awareness of the origin of our dairy the consumer can visit the experience centre. Which is located at the centre of the building where they are surrounded by the many plants being cultivated. The architecture of the façade is also a part to create awareness. The semi-transparent façade is used as an invitation for the people to come and experience the process of soybean dairy for themselves. SOY is a unique example for other agricultural products to be cultivated in similar buildings.

Plant: soybeans
 Glycine max
 Product: soymilk & soyoghurt
 Growth: 88.750 kg
 Growth per period: 29.600 kg
 Production per year: 710.000 L

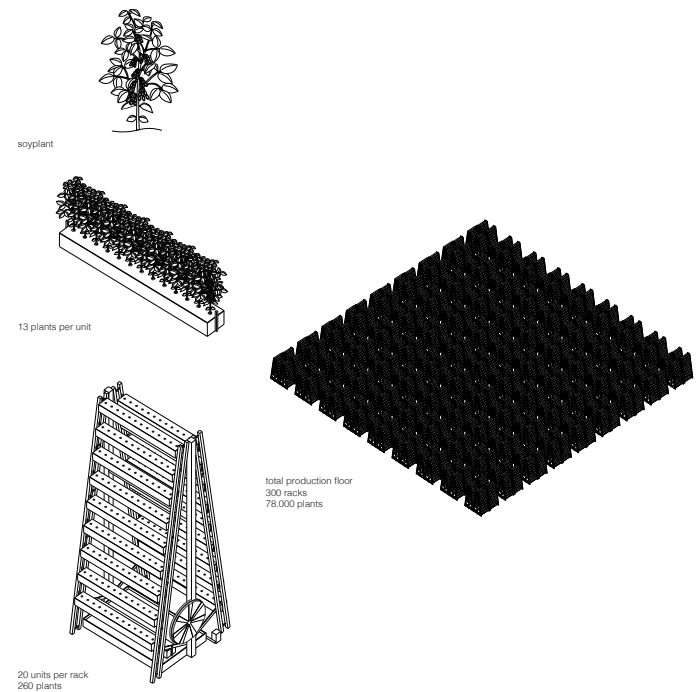
MENU



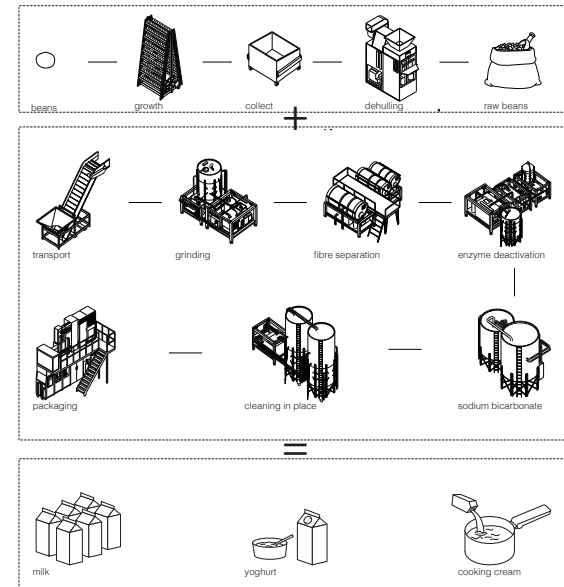
CONCEPT



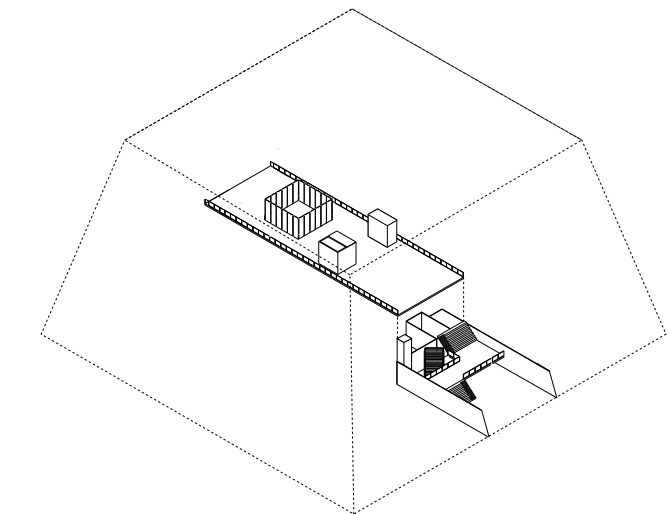
CIRCULARITY



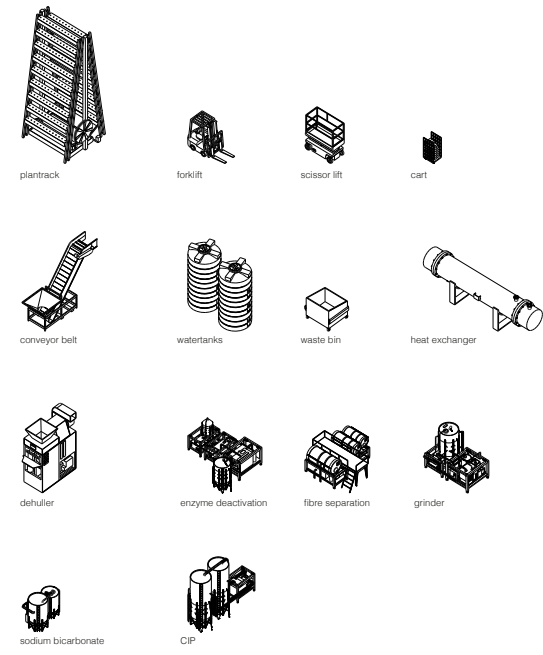
PRODUCTION FLOOR



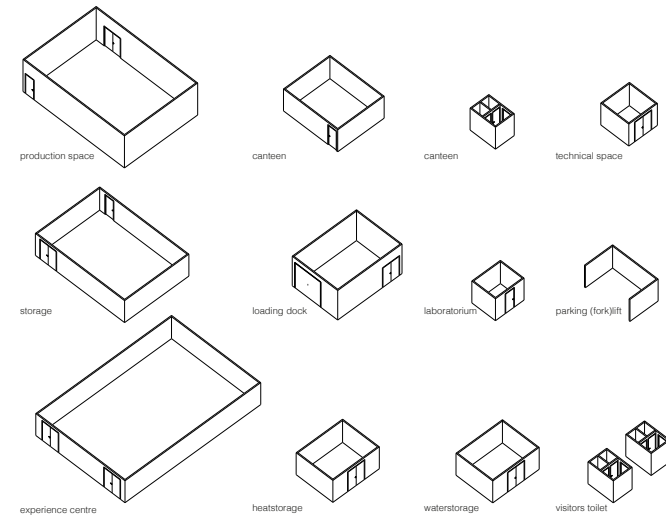
PRODUCT SYNERGY



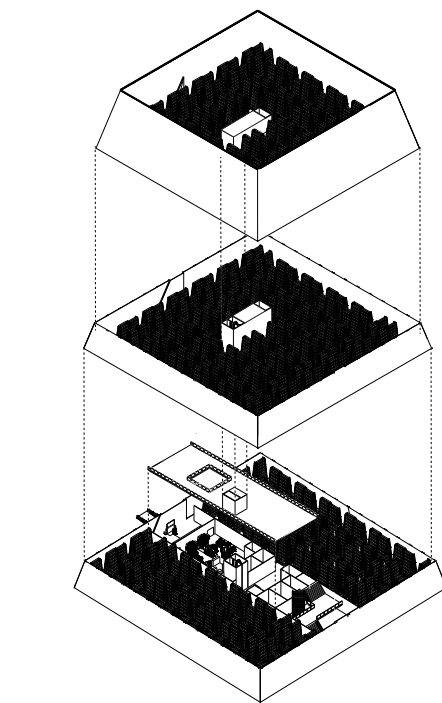
AGRI-CULTURE



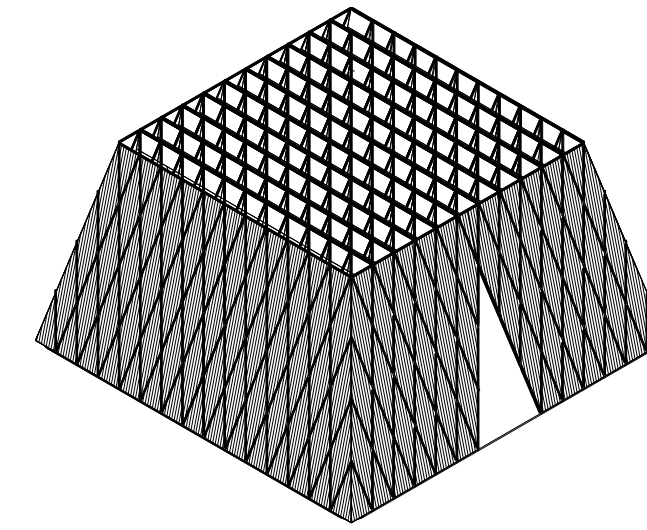
TECHNOLOGY



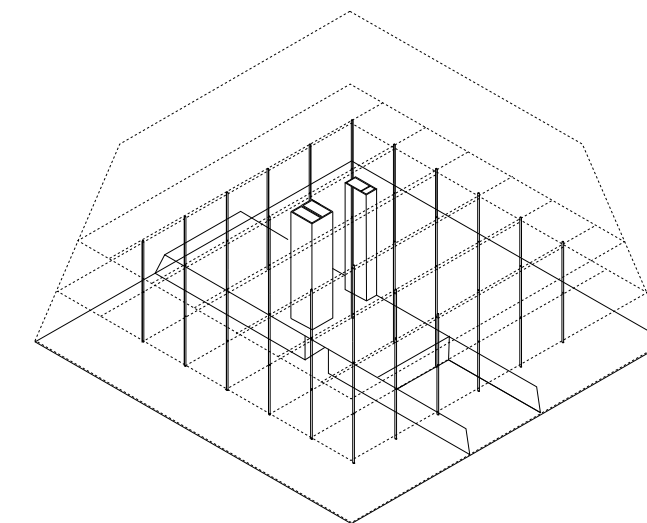
PROCESSING & PACKAGING



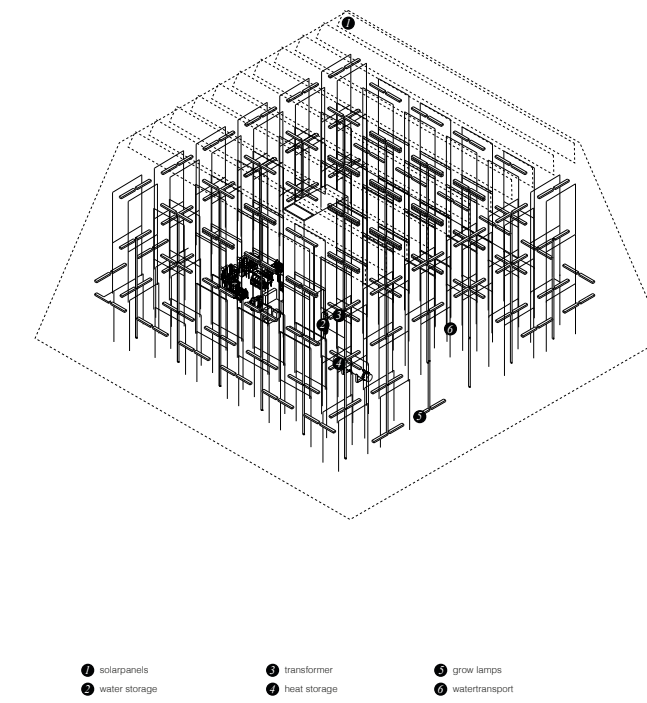
THE COMPACT MODEL



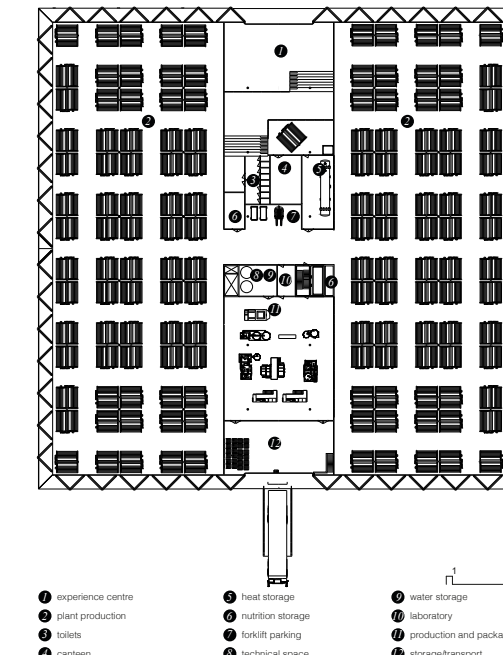
ARCHITECTURE



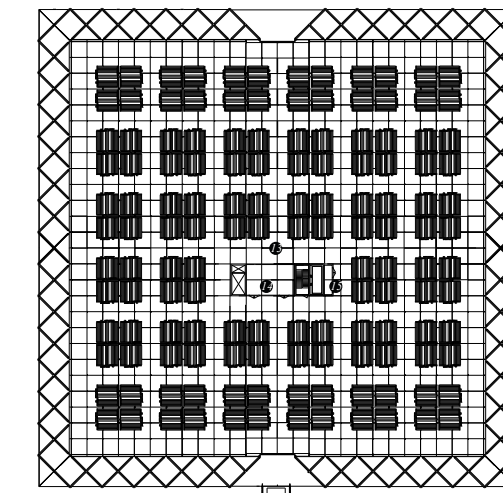
STRUCTURE



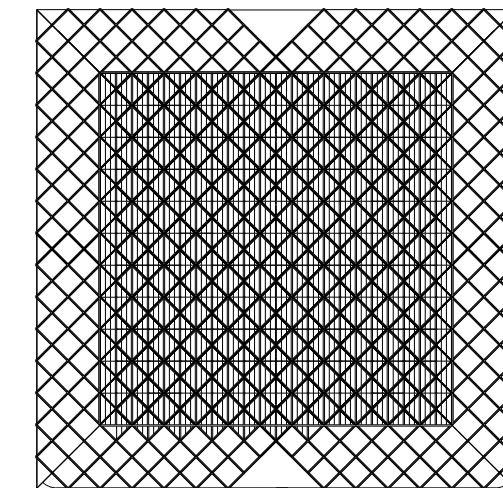
INFRASTRUCTURE



FLOOR PLAN 00



FLOOR PLAN 01



ROOF

