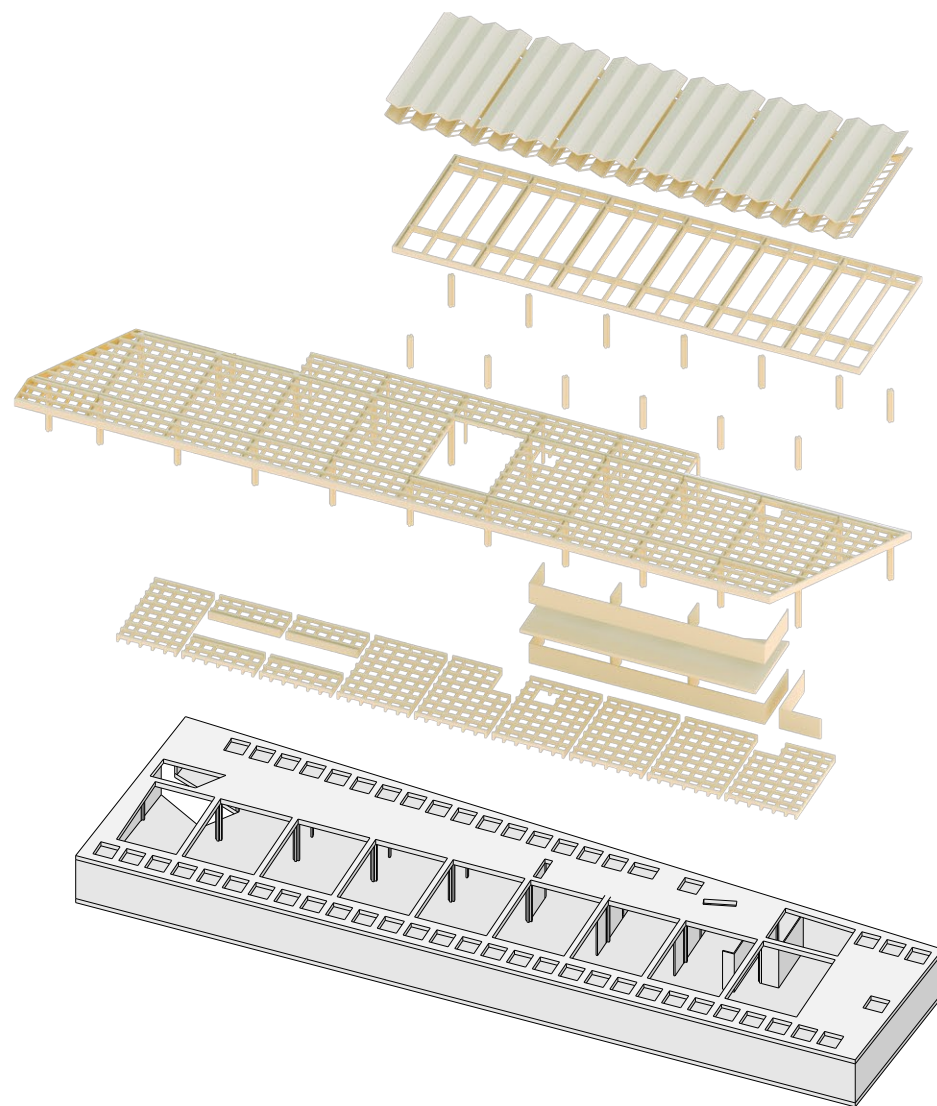
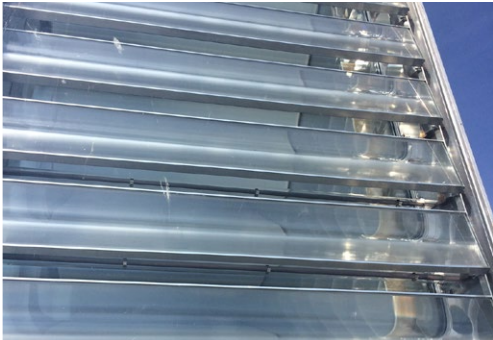












Fasolar ; an innovation from De Groot Visser



Directional current



Reused jeans



Urban Mining



BUILDING SERVICES:
building is self-sufficient;
direct current (innovation)

Water, production

W1: reuse of rain water

W2: natural filtering with halophytes

Water, buffer

W4: water recycling

W5: irrigation of the roof garden and greenhouse

Water, usage

W7: waterless urinals, water saving faucets

W8: plants, green facades (inside and outside)

W9: (dishwasher) kitchen

W10: vacuum toilets

W11: water playground on the square (cooling) possible extras:

- Air purifier
- Piezo-electrical floor tiles
- Sun mirrors
- Energy generating glass

Electricity, production

E1: pv-cells

E3: wind turbines by fall wind

Electricity, buffer

E4: electrical cars and bikes as electricity buffer

Electricity, usage

E5: heat pump

E6: Absorption refrigeration machine

E7: LED lighting

E8: ventilation

E9: a lot of day light (which reduces the energy consumption)

Warmth/cold, production

WK1: warmth exchange with the soil

WK2: heat pump

WK3: bio-cogenerator

Warmth/cold, buffer

WK4: PCM (Phase Changing Material)

Warmth/cold, usage

WK5: ventilation air

WK6: heaters and coolers

WK7: high quality insulation reduces consumption

WK8: floor heating and cooling

