











- Heather (la
- Rowena (
- Dwarf willow - Armeria (lat. Armeria







Architecture is a problem-solving discipline. Considering pollution as one of the major problem lems in the world, as an architect, one has to be aware of the **pollution** and waste each project generates and think ofways to apply sustainability or natural alternatives to the **processes**.



With a small section of green roof around the perimeter of the entire building, I organize the space for rainwater suction and treat-

¹ Also the installation of a green roof reduces the need to manage any stormwater that accumulates, as well as the stress put on local sewer systems.

Since your roof is covered by plants, the amount of it exposed to the elements is limited, enabling the roof membrane to last much longer than if unprotected.

- SOIL DEPT 50mm

- SEMPERGREEN SEDUM - MIX MAT 20mm - FILTER LAYER DRAINPLATE 6mm - PROTECTION SHEET MEMBRANE ARCHITEC TURAL SUBSTRUCTURE

Aeroponic tower system

An aeroponic tower collects rainwater in its funnel, the roof. The water enters the filter where nutrients from the nutrient extraction system are added. The flow of water is controlled by a drip nozzle that distributes the water to the suspended roots inside the aeroponic tower, spraying the nutrient-rich water. The water then flows back into the ground so it is not wasted.

building

ing syst

Water, heat and electricity are supplied to the building through the treatment and further use of thermal water.

Green roof









Information



Digitalization



Eco-friendliness



