The Groasis waterboxx functionalities and applications

The *Groasis* waterboxx is an instrument which supports seeds, plants and trees to survive under harsh circumstances without using electricity. It collects water through capture of rain and produces water through production of condensation, it stimulates capillary and prevents evaporation caused by the sun and prevents competition caused by competitive weeds. It provides its collected water to the seed or tree over a long period of time.

Through these capacities the *Groasis* waterboxx can play an important role in replanting burned woods, CO_2 capture, anti-erosion and anti-desertification programs, food- and wood production. The *Groasis* waterboxx also stimulates the growth of trees in moderate climate zones. Tests in Holland showed a 15% improvement of biomass production after 4 years while comparing trees planted with and without the *Groasis* waterboxx.

Functionality:

- With the *Groasis* waterboxx a seed or tree is planted in a way that the capillary is not destroyed when planting the tree.
- In the middle of the *Groasis* waterboxx there is space to put a seed, a plant or a tree.
- This plant can develop its roots under the *Groasis* waterboxx.
- The *Groasis* waterboxx produces water via artificial condensation.
- It collects rainwater.
- It distributes the collected water to the plant on a daily base.
- It stimulates the rise of the capillary water to the top of the soil under the *Groasis* waterboxx.
- It prevents evaporation of the capillary water.
- It prevents the development of weeds around the plant.
- It prevents grazing of the plants by a certain variety of animals.
- It prevents erosion of the soil around the plant.
- It prevents heating of the soil around the plant.
- It stimulates a balanced temperature in the root area.
- The advantage of planting without destroying the capillary is that the *Groasis* waterboxx can also be used for planting on rocks.

Application

- Fruit / food
- Medicine
- Wood
- Anti-erosion
- CO_2 capture