



Data Sheet of Groasis' 10 times re-usable Waterboxx[®] plant cocoon
Part of the Groasis Ecological Water Saving Technology

The Waterboxx[®] plant cocoon is an innovative, proven planting technology that enables you to plant trees, in combination with shrubs, bushes, flowers or vegetables, without the need for irrigation. It has successfully been applied in more than 40 countries around the world.

The Waterboxx[®] is a re-usable polypropylene 'intelligent bucket' with a cover which allows it to catch rainwater and produce and capture water from condensation/dew. One to four saplings (trees / shrubs / vegetables / flowers) can be planted in the central twin opening.

The water in the bucket moderates the temperature under the box and the specially shaped center opening creates a supportive micro-climate for the young plants / trees to grow.

A wick through the bottom drips approximately 50cc of water to the plant every day, which is enough for it to survive. Water loss through evaporation is minimized. The plant is incentivized to develop its taproot and find water by itself. The Waterboxx[®] helps a planted tree through the first year(s) by assisting the sapling to reach 3m+ depth with its roots within the first year(s). After this, the tree taps from the water that is available in the soil, and it can continue to grow without the Waterboxx[®] - so the Waterboxx[®] can be removed and used to plant another set of trees.

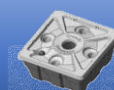
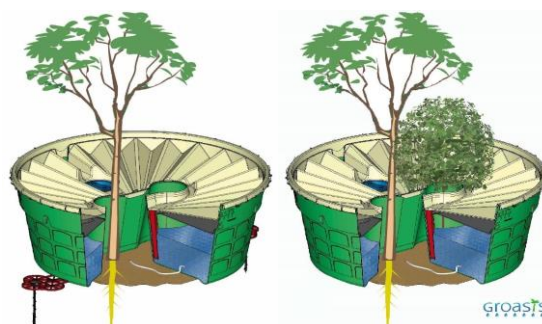
As the product is made from virgin polypropylene, it can be re-used approximately 10 times. You can thus plant 10-40 trees with each Waterboxx[®], thereby minimizing the cost-per-tree.

The Waterboxx[®] plant cocoon is by far the cheapest method to plant without irrigation in hot, dry or eroded areas. The fact that you can re-use the box for 10 years, planting new trees each year, makes the cost per tree incredibly low.

[Check the video how it works here](#)

We recommend using the Waterboxx[®] with [Growsafe plant protectors for even better results](#).

You can use the Waterboxx[®] for agroforestry (planting 1-2 productive trees / bushes to plant orchards, e.g. vines, olives, mangoes, berries etc., or planting 1 productive tree / bush with 1 vegetable (e.g. tomato, eggplant, pumpkin). It is also very suitable for ecosystem restoration, planting 2 trees and/or plants in combination with bushes and/or wildflowers – this offers the opportunity to create colonizing micro-ecosystems of pioneer plants to reforest the area. With only 250 Waterboxxes[®] you can plant 500 pioneer plants per hectare, unlocking significant savings compared to traditional ecosystem restoration methods.





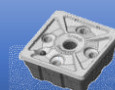
Data Sheet of Groasis' 10 times re-usable Waterboxx® plant cocoon

Groasis Waterboxx® plant cocoon	Model "Twinboxx" for 2 trees and/or bushes and/or vegetables
Standard parts	Box - lid – isolation lid - cap – 2 siphons - wick
Color of box	Green
Color of lid	Beige
Color of caps/siphons	Blue
Color of isolation lid	Black
Weight	1,400 grams (49.4 oz)
Material	Virgin polypropylene
Additives	UV protection – anti-oxidants
Quality standard	UV protection according to standards of BASF and CIBA
Temperature resistance	Between - 40°C to + 80°C (-40°F to +176°F)
Wick	Nylon
Diameter x height	49,5 x 22 cm (approx. 19.5 x 8.7")
Content	15 liters (4 gallons)
Complete sets per pallet	150 for air freight / 250 or 300 for sea freight
Complete sets 20Ft container	3,000 pieces on 12 pallets of L 100 x W 120 cm (39.3 x 47,2") x 250
Complete sets 40Ft HC container	7,200 pieces on 24 pallets of L 100 x W 120 cm (39.3 x 47,2") x 300
Water gift per day	Variable - between 700 to 18cc - on average 50 cc (50 millilitres)
Water gift influence	Depending on hygroscopic characteristics of soil
Lid characteristic	Ultra-low adhesion to water
Refill	Opening with cap in cover allows a quick refill if necessary
Expected lifetime wick	One year
Expected lifetime Waterboxx®	10 Times re-usable; depending on temperatures and UV: 5 to 15 years
Evaporation of water through lid	Zero
Development of algae in water	Zero
Website	www.groasis.com
YouTube channel tree planting	https://www.youtube.com/user/Groasiswaterboxx
You Tube channel vegetables planting	https://www.youtube.com/user/Groasisvegetables

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Planting manual
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रोपण के मैनुअल
種植手冊
Mwongozo wa kupanda
Dikim el kitabi
Manual de siembra
Manual de plantação
Manuel de plantation
Handleiding om te planten



Download the planting manual in our Groasis Waterboxx® app in Google Play or Apple App store.

