

Recycling Pioneers



ECOgreen[®] System

SOLAR.GRÜN.DACH.



Why is there a need for a new system?



Disadvantages:

- Heavy concrete weights, strain on workers
- Number of work steps
- No greening under the assembly point
- CO2 balance of concrete
- Transport volume to the construction site
- No useful function apart from ballast



We have the simple solution!



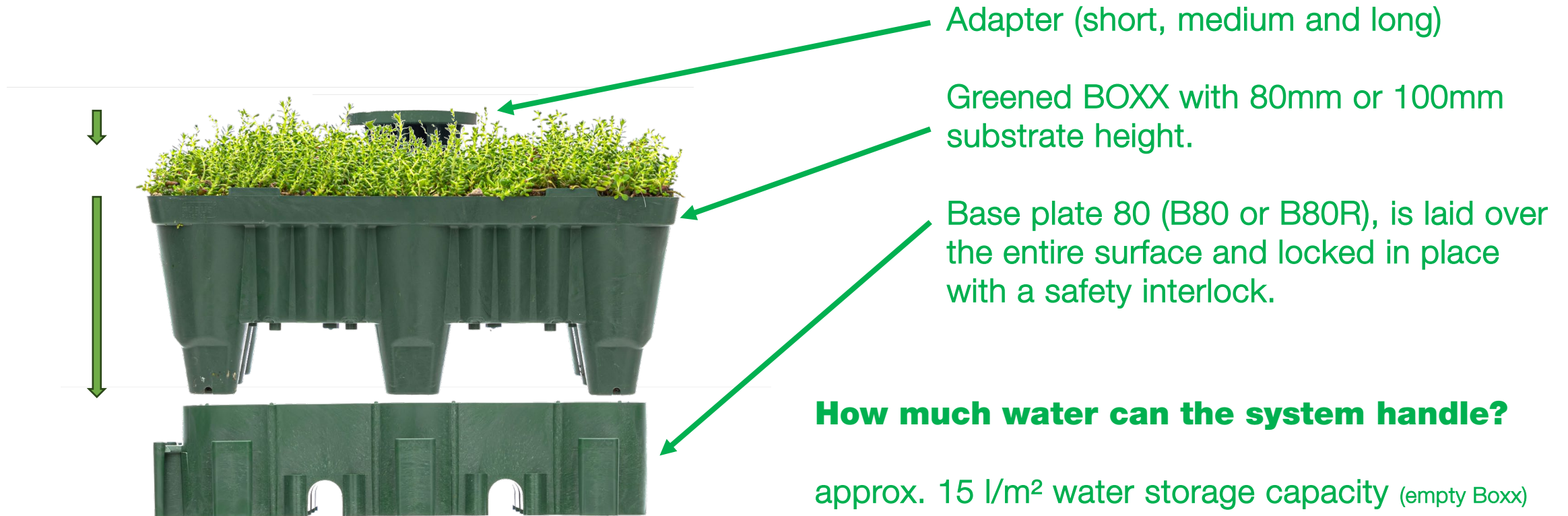
In use as:

- Solar green roof (yield increase through combination of PV and green)
- Green roof retention roof
- Ballast for PV systems
- Penetration-free landfill sealing for PV and green roofs



The simple solution for solar green roofs.

Components of the ECOgreen® System:



approx. 15 l/m² water storage capacity (empty Boxx)
approx. 45 l/m² rainwater retention (in Boxx, substrate and plant)
approx. 30 l/m² retention plate (flat roof)



Installation



Installation



The BOXX in comparison.



Components of the ECOgreen® System:

Greened BOXX 80 or 100mm substrate height.

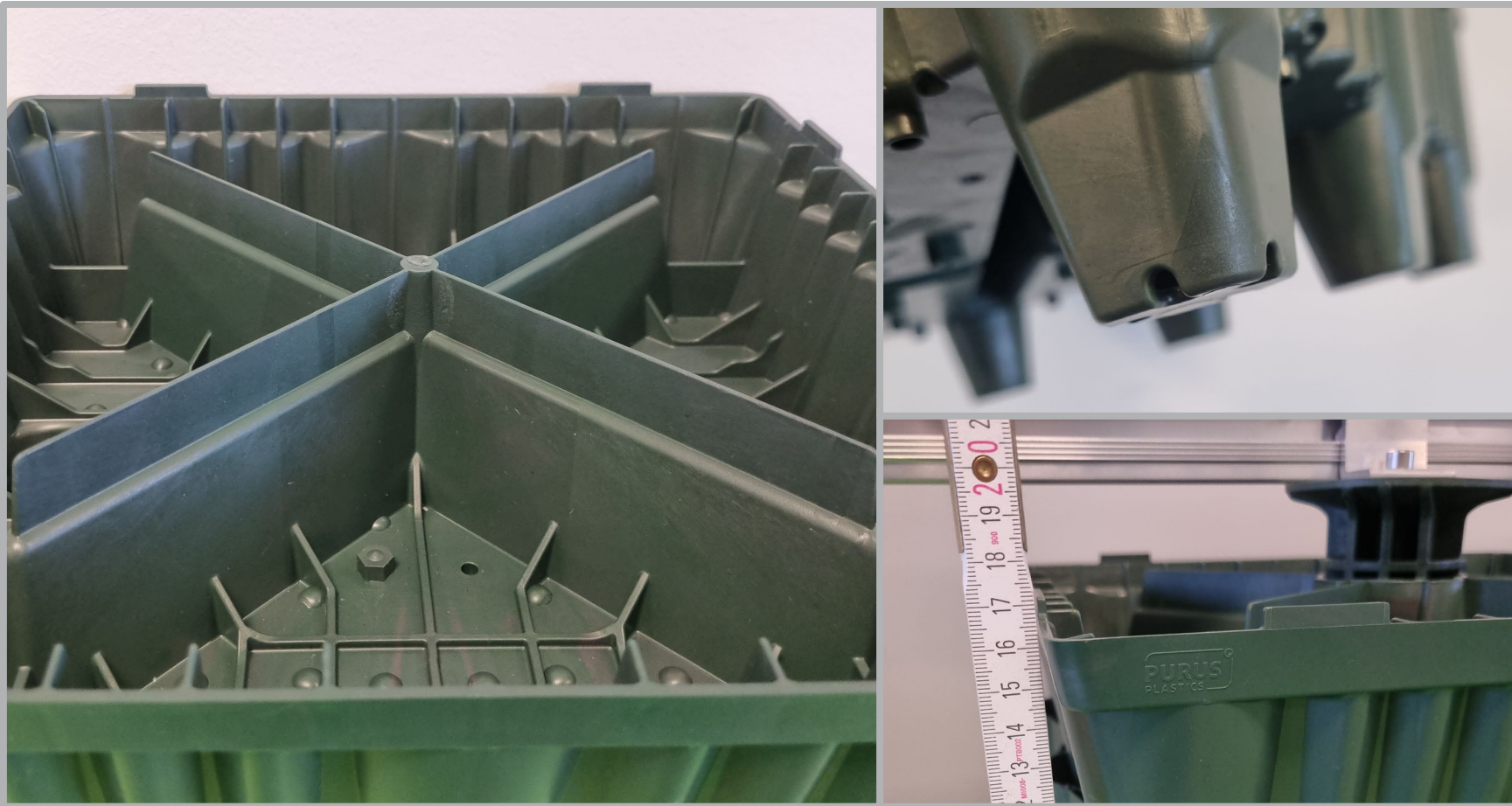
Optionally with center hole for adapter holder (ECOgreen® Boxx 80.1/ 100.1) or



without. (ECOgreen® Boxx 80.2/ 100.2)



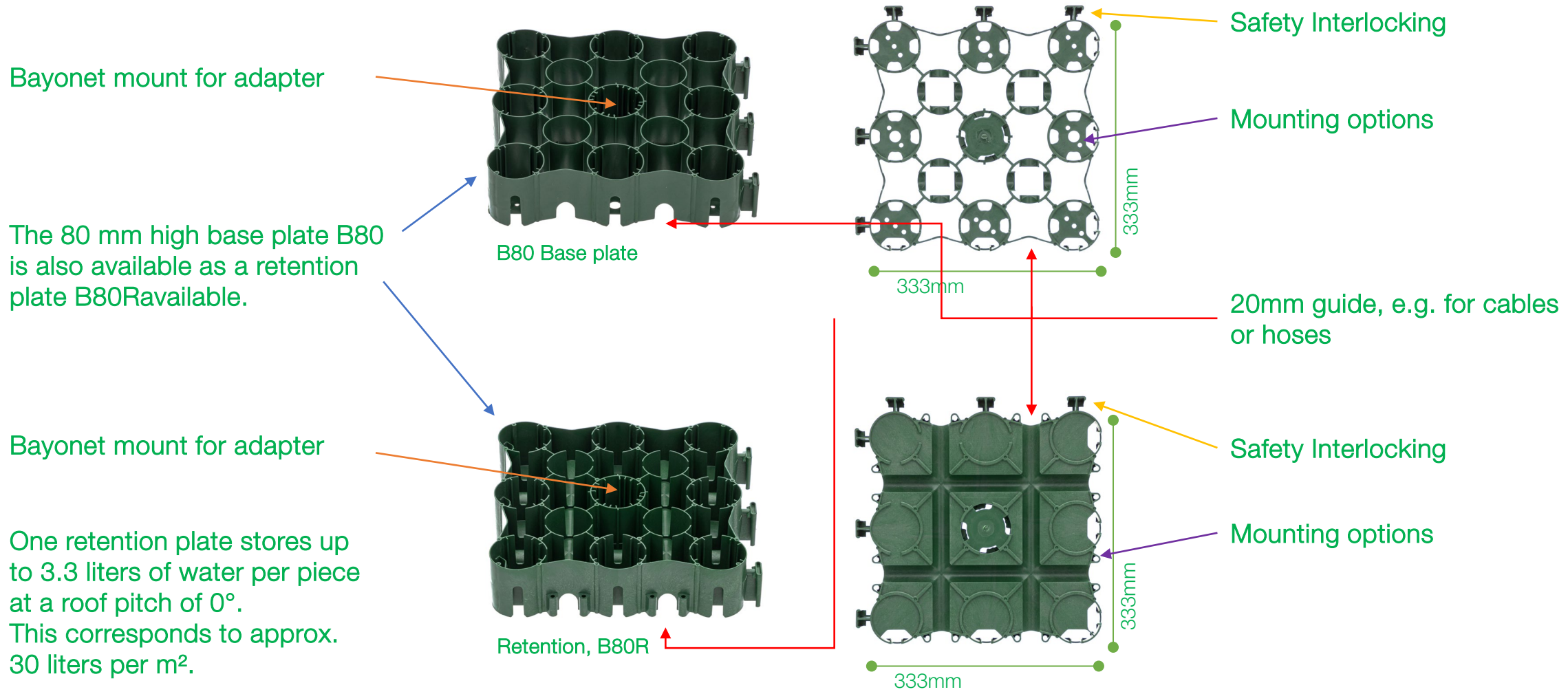
Boxx close up.



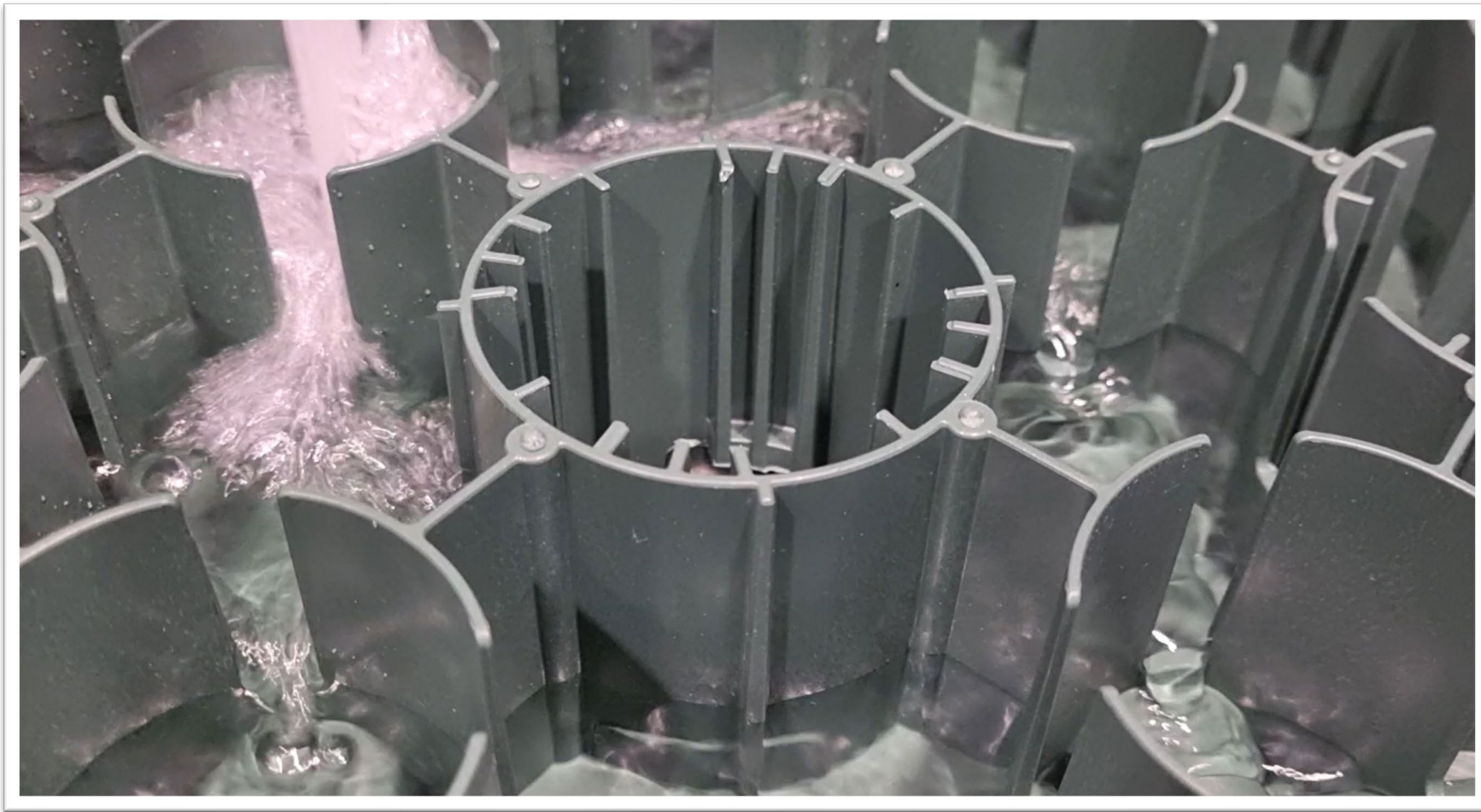
- Nestbale
- Reinforced Geometry
- Drainage holes preventing waterlogging
- Substrat supplies the plants in dry conditions, also wicking effect on base plate.



The ECOgreen® base plates in comparison.



Water distribution in the B80R





Shown in the test setup:

BOXX height 80, laid with and without center opening. Load per m² up to 120 kg, depending on height

Pull-out force per fixing point expected to be approx. 250 - 300 kg, fixing point possible every 333 mm.

Expected to be available in three different greening qualities.

Seamless maintenance paths can be created with ECORASTER® (grit-filled, greened, concrete block)

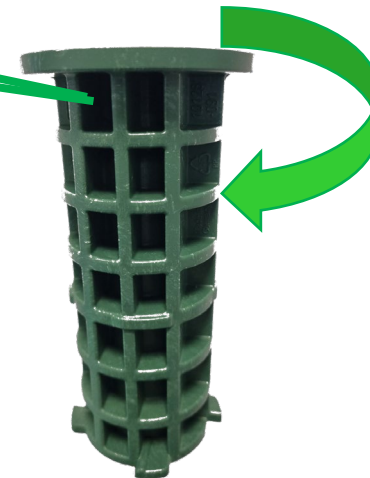
Base plate - substructure, fully bonded





Adapter available in three lengths.

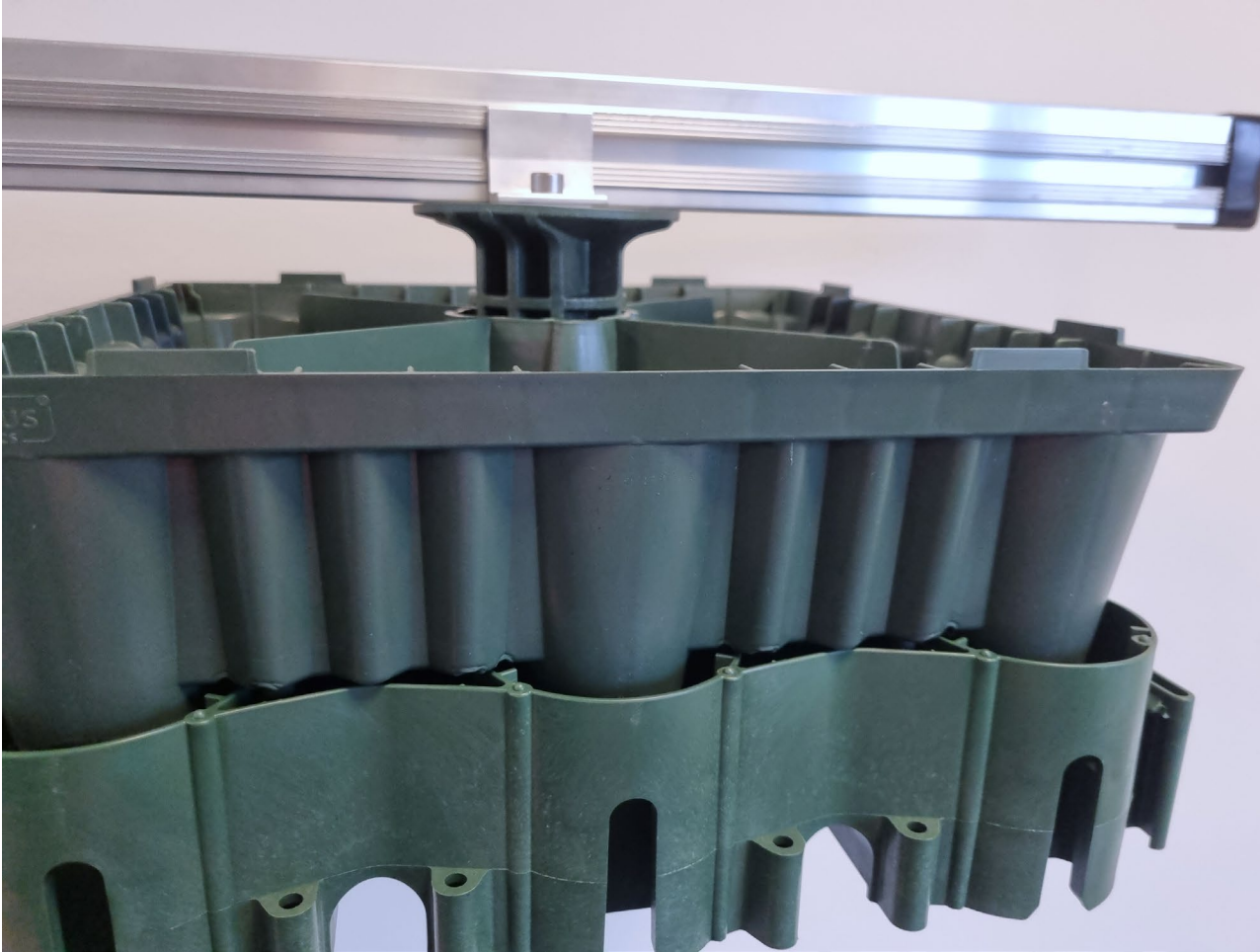
To fit, turn clockwise 15° until you feel it click into place. Easy handling thanks to standardized Allen key size 12 or flex wrench holder. There is an M8 threaded mount in the center for quick installation of the solar substructure.



easy assembly
und failsafe!



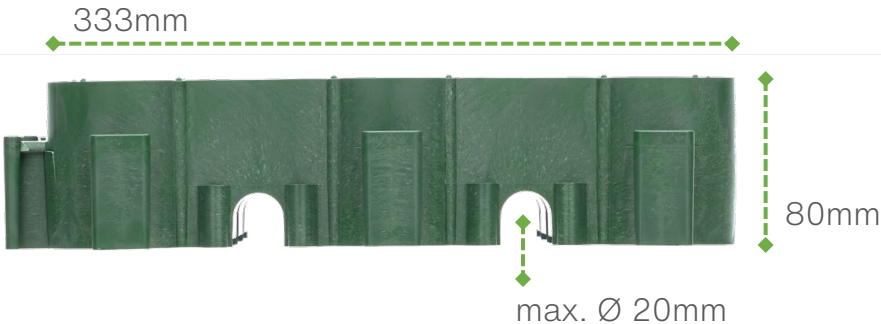
The benefits of the PURUS ECOgreen® Systems:



- Ballast and green roof in one go
- Pre-Greened delivery
- Fixed grid dimension 333mm for UK
- Failsafe design
- Retention roof possible on request
- Few tool changes during installation
- No penetration of the seal
- Made in Germany. 100% recycled.



Specifications:



Height B80(R) + Boxx 80.1/80.2 = 170mm

Gewichte:

Typ	greened (max. water level) pcs. · m²	Boxx empty pcs. · m²	Greenroof B80, saturated, incl. Boxx	Retention B80R, saturated, incl. Boxx	B80 pcs. · m²	B80R pcs. · m²
80.1	10,89kg · 98kg	765g · 6,89kg	106,77kg	138,96kg	974g · 8,77kg	1218g · 10,96kg
80.2	11,33kg · 102kg	777g · 6,99kg	110,77kg	142,96kg		
[Please note: Number of feet on Boxx: 8] All values are approximate. Errors and omissions excepted.						

*: Height with greening >140mm
Boxx: > 80% pre-greened.
Attention: Weight/load may vary
with may differ with 3rd party greening.

Material: 100% rec. PE PP



Specifications:

Support join
Ø100



191 mm length

L1

Support join
Ø80



157 mm length

L2

Support join
Ø60



71 mm length

L3

Adapter weight: L1: 277g • L2: 220g • L3: 98g



Internal Pull-Out Tests.



What makes the system special, how can it be installed?

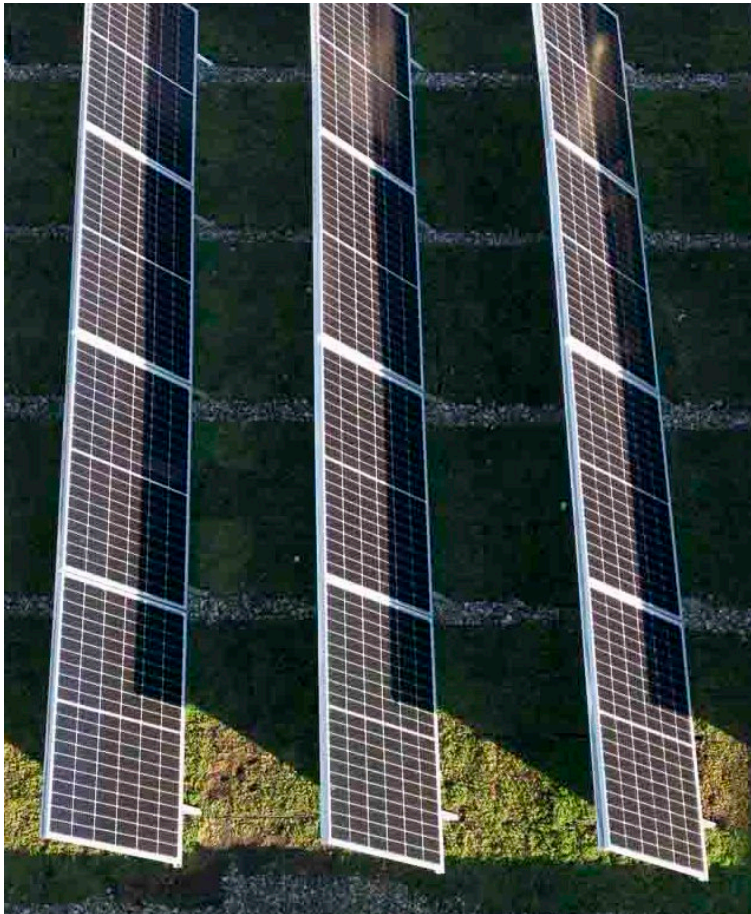
With our system, a 100% solar green roof or PV roof can be created without penetration and without or other ballast, a 100% solar green roof, PV roof or green roof can be created.

Due to the elimination of ballast concrete and the use of secondary raw materials, a significantly more favorable CO2 balance can be assumed.

Similar to ECOgreen® PACK, “unload - lay down - done” and the advantages of the pre-greened system apply here. (Billing, working time, shortage of skilled labor, simple PV UK installation)



What makes the system special, how can it be installed?



Installation as a solar green roof:

Base plate 80 + Boxx with adapter holder + adapter or
Retention plate + Boxx with adapter holder + adapter

... for some green roofs, only the base plate with the
adapter could be used.



What makes the system special, how can it be installed?



Installation as a green roof:

Base plate 80 + Boxx without adapter holder

or

without base plate, directly onto the prepared roof



Photo of our test installation at the green angels/DURMIN in Nuremberg.



Photo of our test installation at the green angels/DURMIN in Nuremberg.





The BOXX (substrate height 80 or 100 mm) can be supplied pre-planted on request.

There is a choice: Scattered, extensive or flowering perennial planting.



Let's make the world
a little greener every day.
Thank you very much!

Wir sind

**Recycling
Pioneers.**