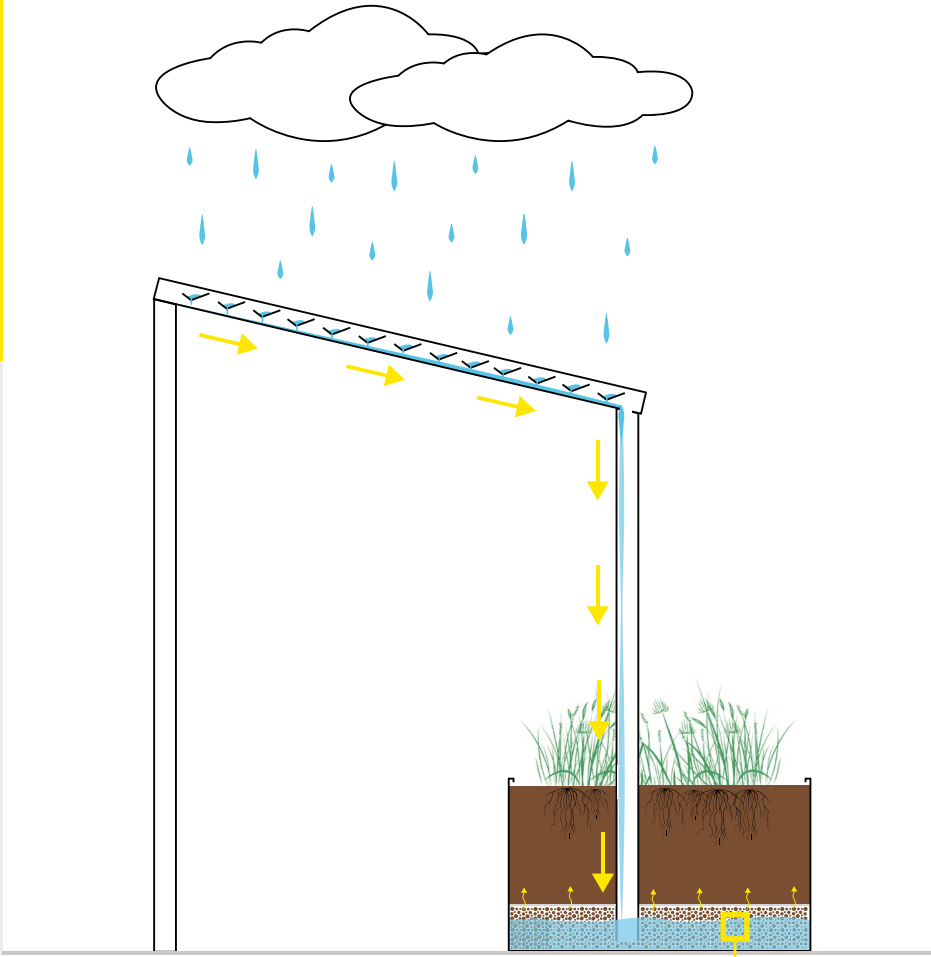
Patented system

Rainwater harvesting system



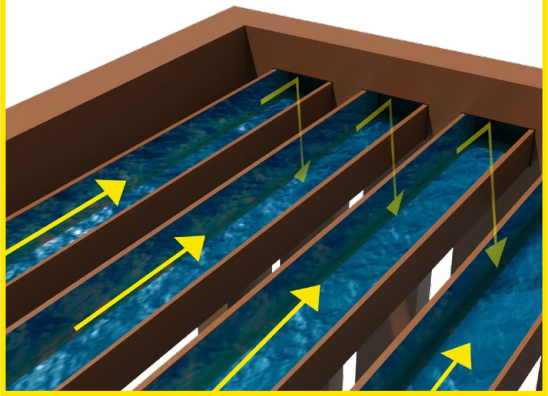
| Patented system
This system is designed to optimize resource use by collecting rainwater and storing it directly in a reservoir built into the planter..

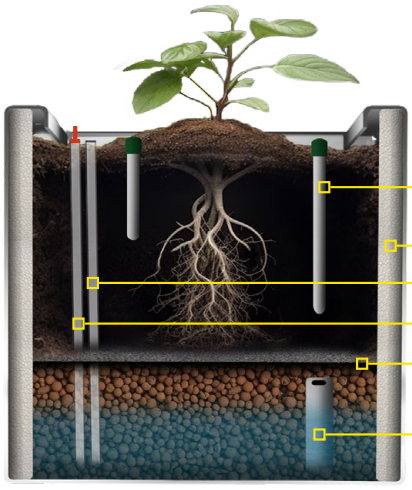
| How it works
The system relies on the use of open aluminum profiles, mounted on the structure with their openings facing upward. This configuration both provides shade and effectively collects rainwater. The profiles are arranged to channel water in a single direction, directing all runoff into a common collection pipe integrated into the structure. The water is then channeled vertically through the base of the structure to the water reservoir.

The collected water is thus stored in the tank and made available for the plants. An overflow mechanism is built in to drain excess water in the event of heavy rainfall.

A SOLUTION DESIGNED FOR BESPOKE PLANTED PERGOLA PROJECTS!

The metal profiles collect and channel water into the planter thanks to the roof slope. If the roof is flat, a slight slope is integrated into the profiles to direct the water toward the side of the planter.





Water reservoir and options :

- Tranquileau Sensor
- Insulation
- Reservoir fill tube
- Water Level Gauge
- Root-barrier geotextile with beads crushed expanded clay, 4/8 mm
- Overflow drain via welded barb located at 30% of the planter height (included)

| Example
Roof surface : 8 m²
Collection area : 5,35 m²
Annual rainfall in Paris 634 mm : 634 mm
Lowest monthly rainfall in Paris: 45 mm in September
Estimated recovered volumes : ≈ 215 L
Highest monthly rainfall in Paris: 69 mm in May
Estimated recovered volumes : ≈ 315 L

| Note
These values represent a theoretical estimate based on the 1991–2020 climatological norms. Actual recovery volumes may vary depending on weather conditions, system losses, and precipitation intensity.

| Advice
Avoid installing the pergola under trees or in areas with climbing plants. The accumulation of leaves and plant debris can interfere with the proper functioning of the rainwater harvesting system. To maximize shade, it is recommended that the pergola be oriented appropriately.

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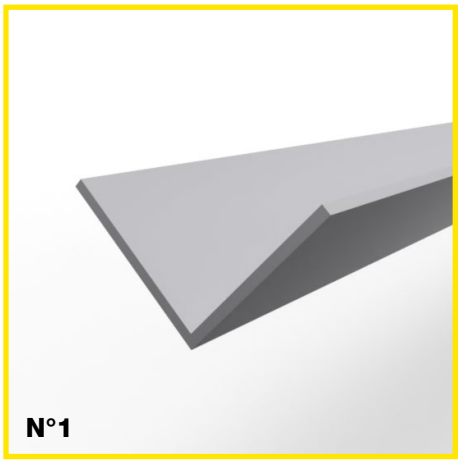
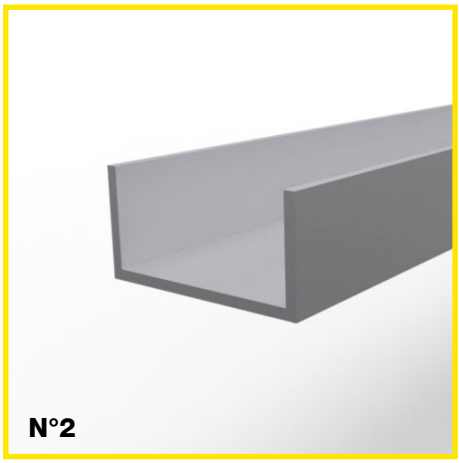
A closer look at water-collecting profiles

DIFFERENT METAL PROFILE SHAPES AVAILABLE:



N°1



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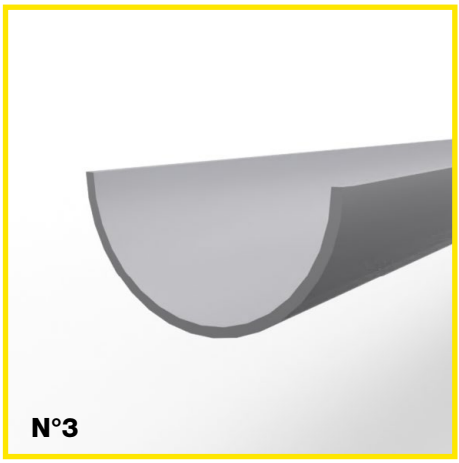

N°3

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