Pergola

Hélios

| Registered design
Design : Jérôme Boissière
| Patented system
Rainwater harvesting and storage system integrated into the pergola

| Materials & Finishes
Aluminium structure th. 5 mm anti-corrosion treatment and hot-lacquered RAL or AkzoNobel colours of your choice
| Fixing
Embed in ground or place on base plate
| Variant
Roof made of untreated Douglas slats
Privacy treillis made of untreated Douglas slats
| Options
Seat made of untreated Douglas slats
Picnic table

1

2

3

4

5

atech

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Seating option

Picnic table option

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Patented system

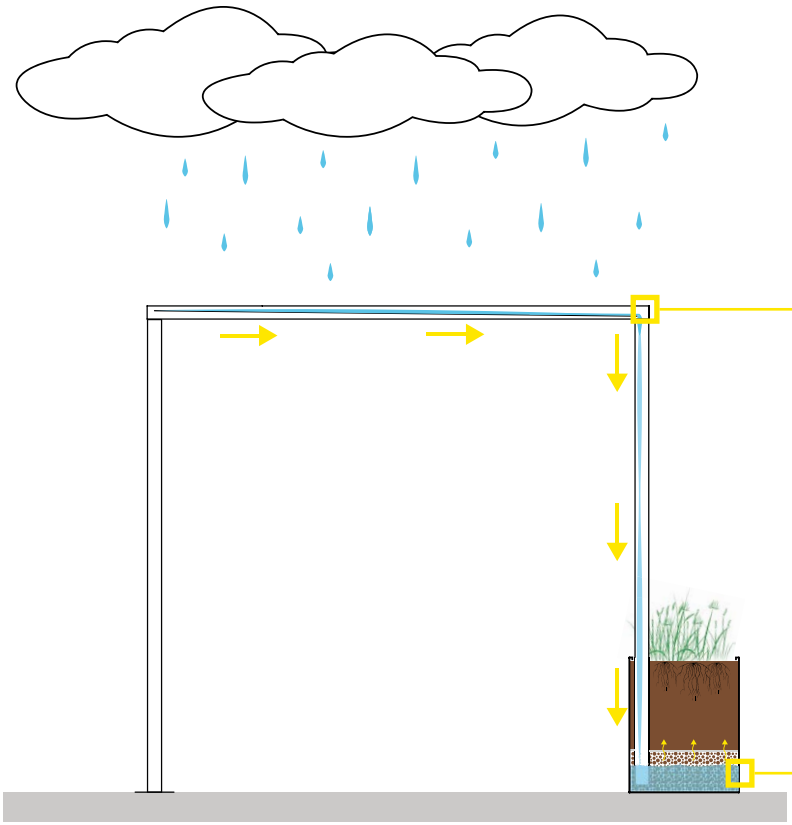
Rainwater harvesting system

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

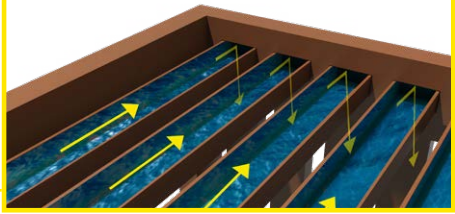
| How it works
The system relies on the use of open aluminum profiles, mounted on the structure with their openings facing upward. This configuration both provides shade and effectively collects rainwater. The profiles are arranged to channel water in a single direction, directing all runoff into a common 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 closer look at water-collecting profiles



The pergola roof is flat, but the profiles are designed with a slight slope to collect water and channel it towards the side of the planter.



Various options can be incorporated to optimize the water supply

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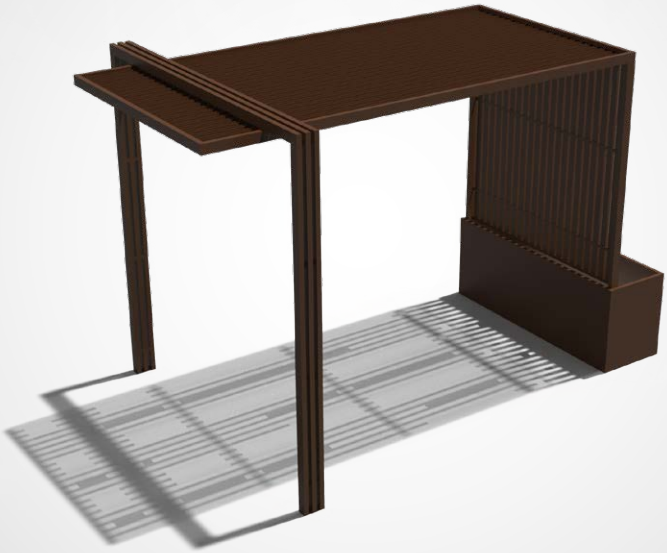

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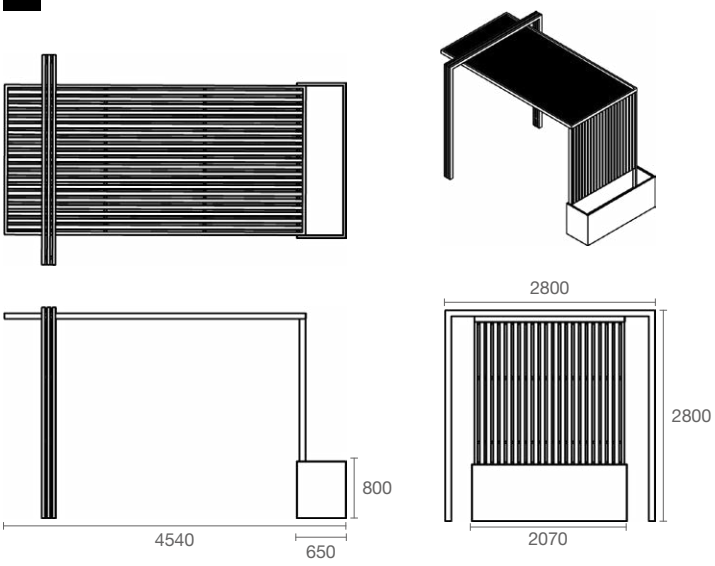

| Data
Planter volume : 1050 L
Total weight : 450 kg
Roof surface : 8 m²
Collection area : 5,35 m²
Annual rainfall in Paris 634 mm : 634 mm
Lowest monthly rainfall in Paris: 45 mm in September
Estimated recovered volumes : ≈ 215 L
Highest monthly rainfall in Paris: 69 mm in May
Estimated recovered volumes : ≈ 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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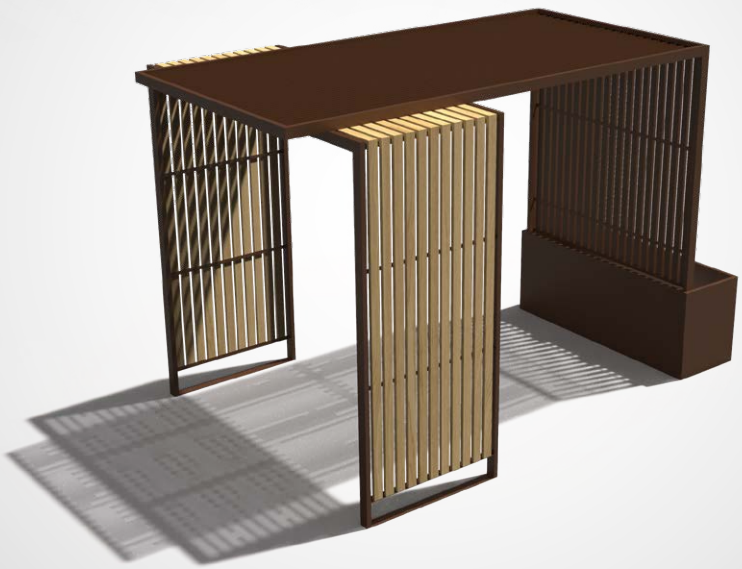

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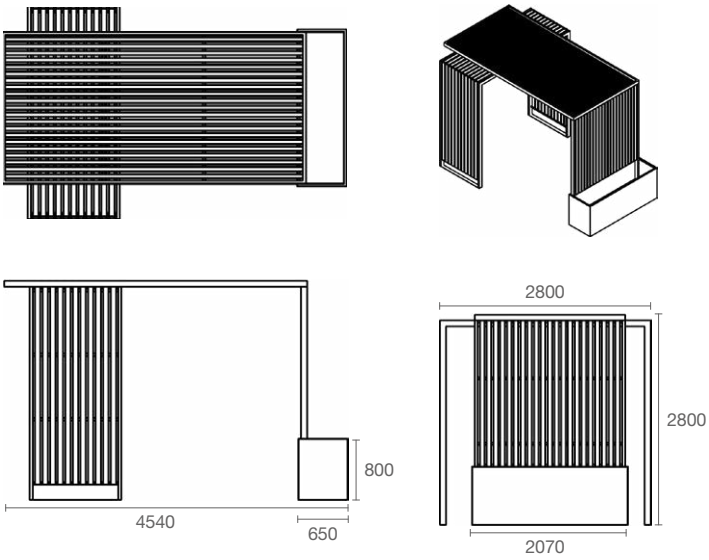

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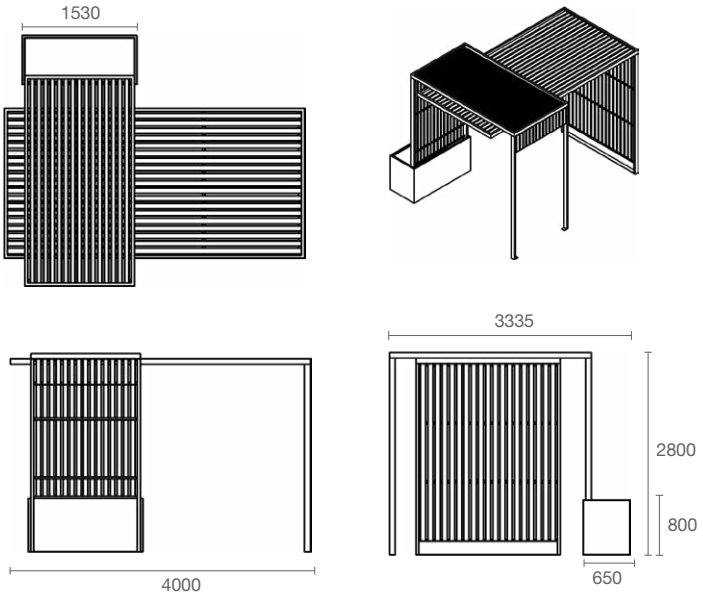

| Data
Planter volume : 800 L
Total weight : 350 kg
Roof surface : 4 m²
Collection area : 2,65 m²
Annual rainfall in Paris 634 mm : 634 mm
Lowest monthly rainfall in Paris: 45 mm in September
Estimated recovered volumes : ≈ 110 L
Highest monthly rainfall in Paris: 69 mm in May
Estimated recovered volumes : ≈ 155 L

| Note
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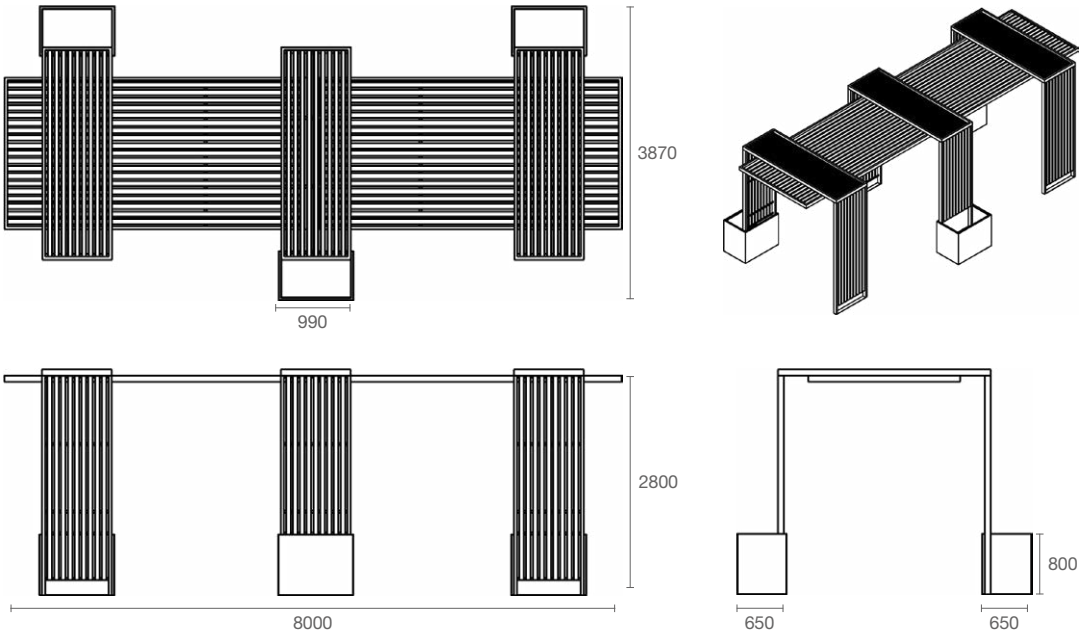

| Data
Planter volume : 1500 L
Total weight : 700 kg
Roof surface : 16 m²
Collection area : 5 m²
Annual rainfall in Paris 634 mm : 634 mm
Lowest monthly rainfall in Paris: 45 mm in September
Estimated recovered volumes : ≈ 210 L
Highest monthly rainfall in Paris: 69 mm in May
Estimated recovered volumes : ≈ 300 L

| Note
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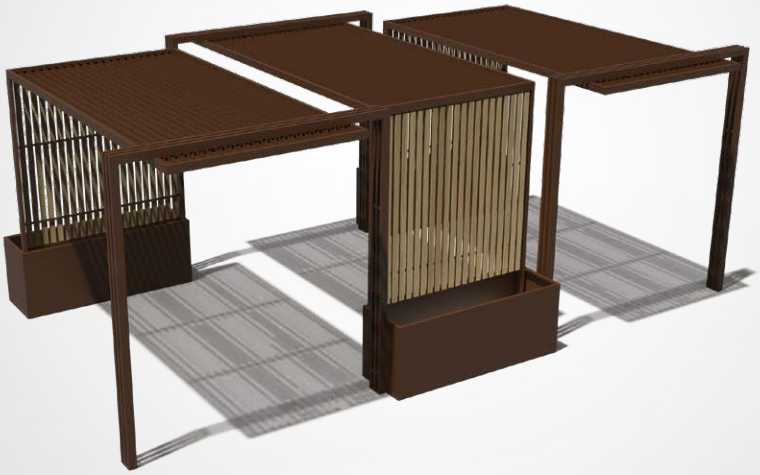

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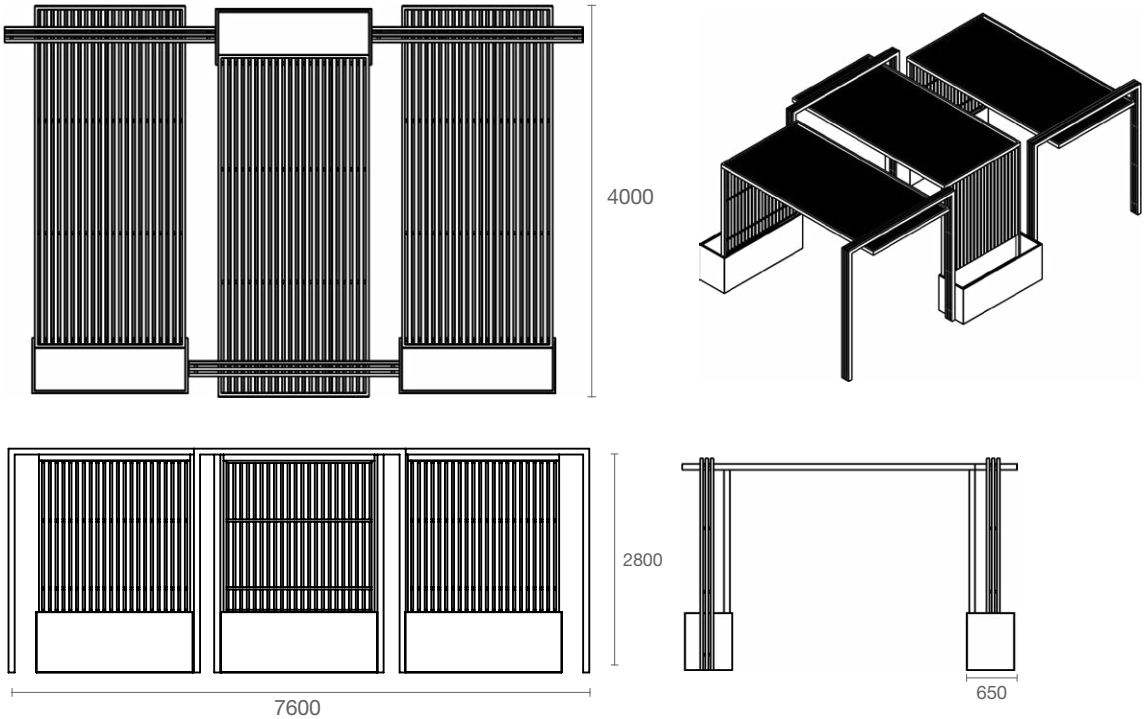

| Data
Planter volume : 3150 L
Total weight : 1350 kg
Roof surface : 24 m²
Collection area : 16 m²
Annual rainfall in Paris 634 mm : 634 mm
Lowest monthly rainfall in Paris: 45 mm in September
Estimated recovered volumes : ≈ 645 L
Highest monthly rainfall in Paris: 69 mm in May
Estimated recovered volumes : ≈ 945 L

| Note
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| Advice
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