



LIVE GREEN WALLS

Modular, Hydroponic Tray System Overview

UPscapers

INTRODUCTION

- The UpScapers Modular Tray system is designed to make indoor Green Walls easy to install and easy to maintain
- Plants remain in their nursery pots so there is no need for transplanting
- The wicking method ensures plants get just the amount of water they need
- The angle of the hexagonal plant holder shows the plant off at its best and gives a complete, full green wall on installation
- Plants are easily swapped and rearranged to take advantage of seasonal or other design changes



HOW IT WORKS

The Green Walls system comprises 3 basic components:

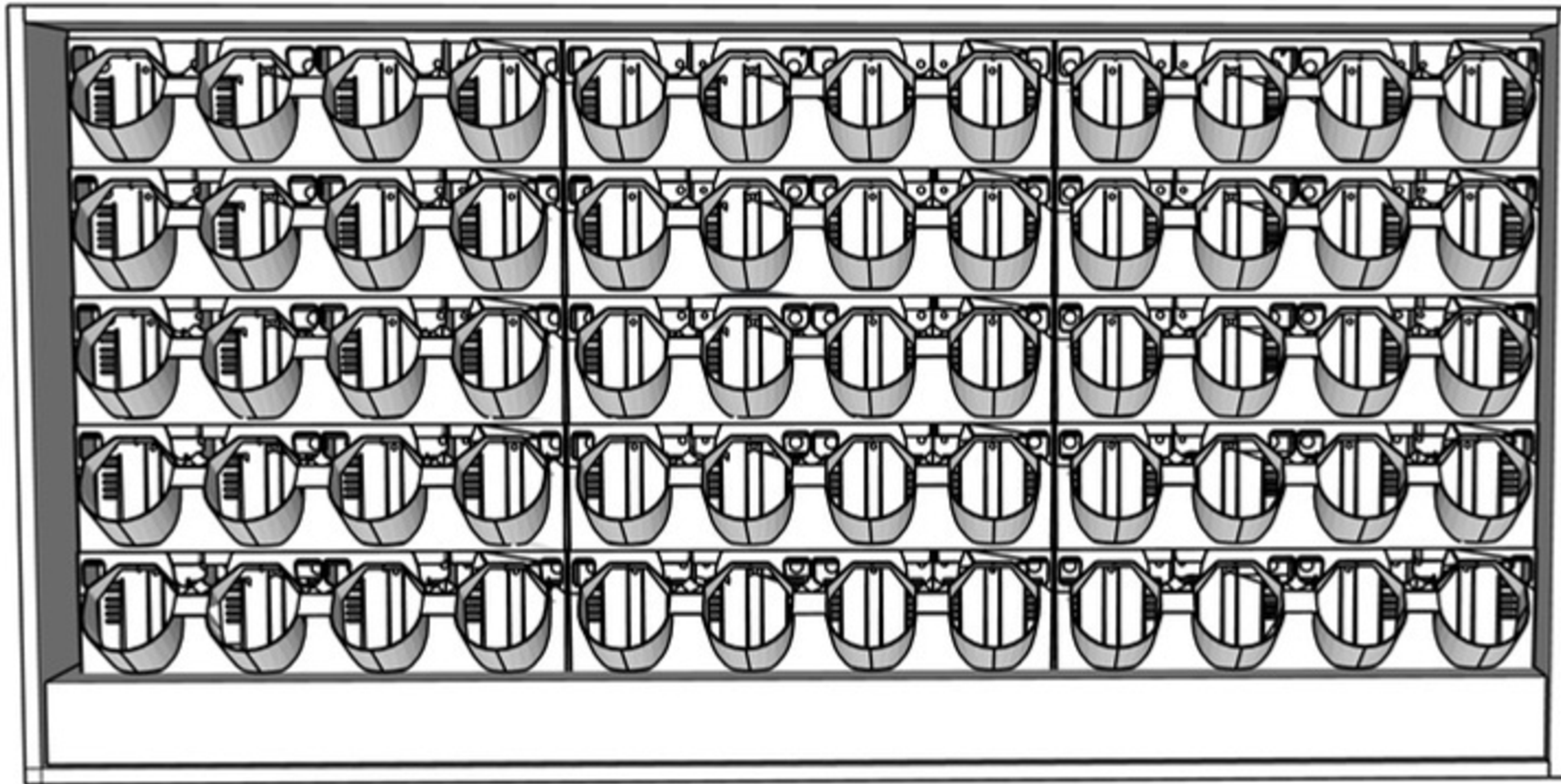


1 POT TRAY



4 POT TRAY

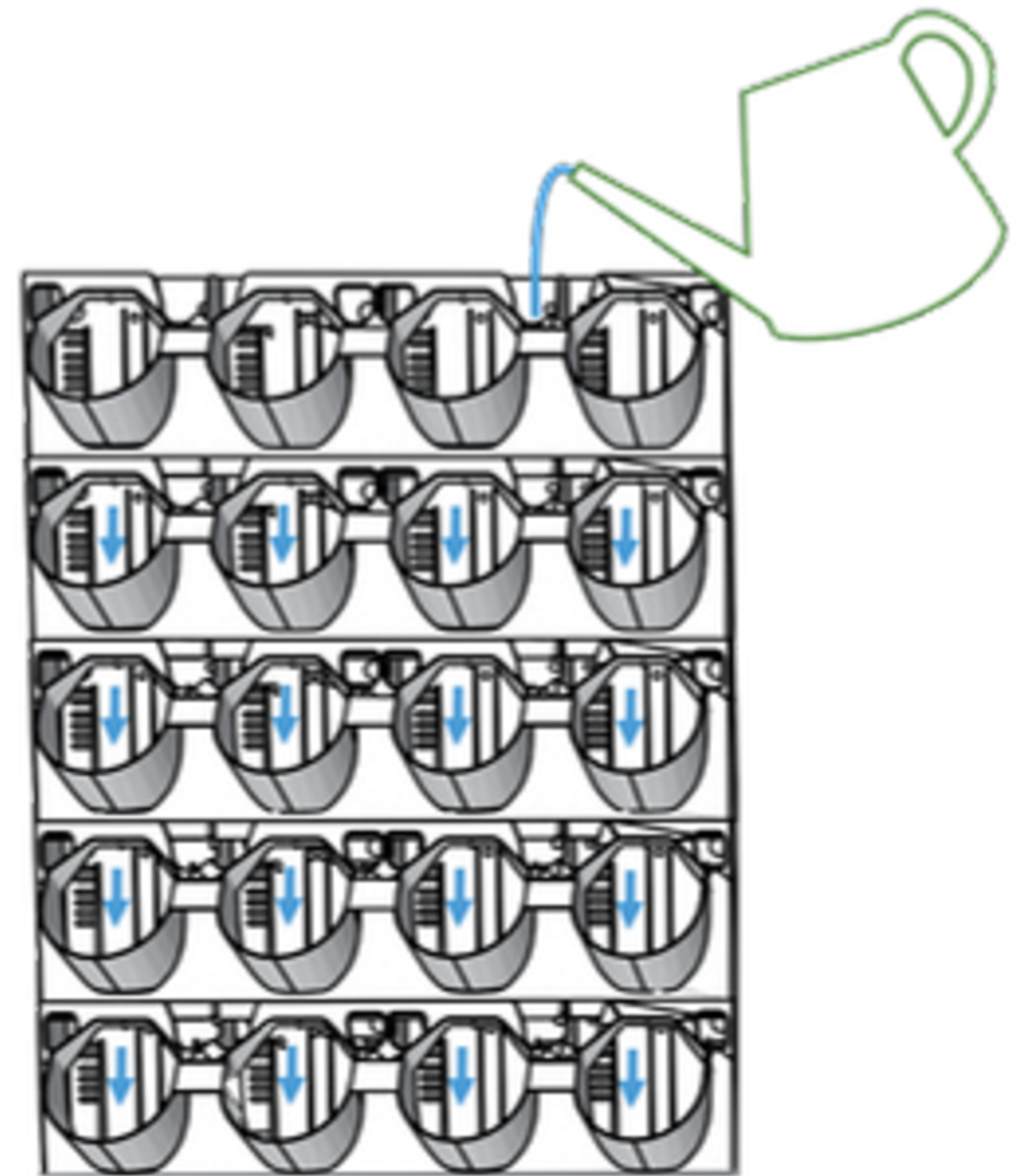
The trays clip together to make a wall of any size. See an example below:

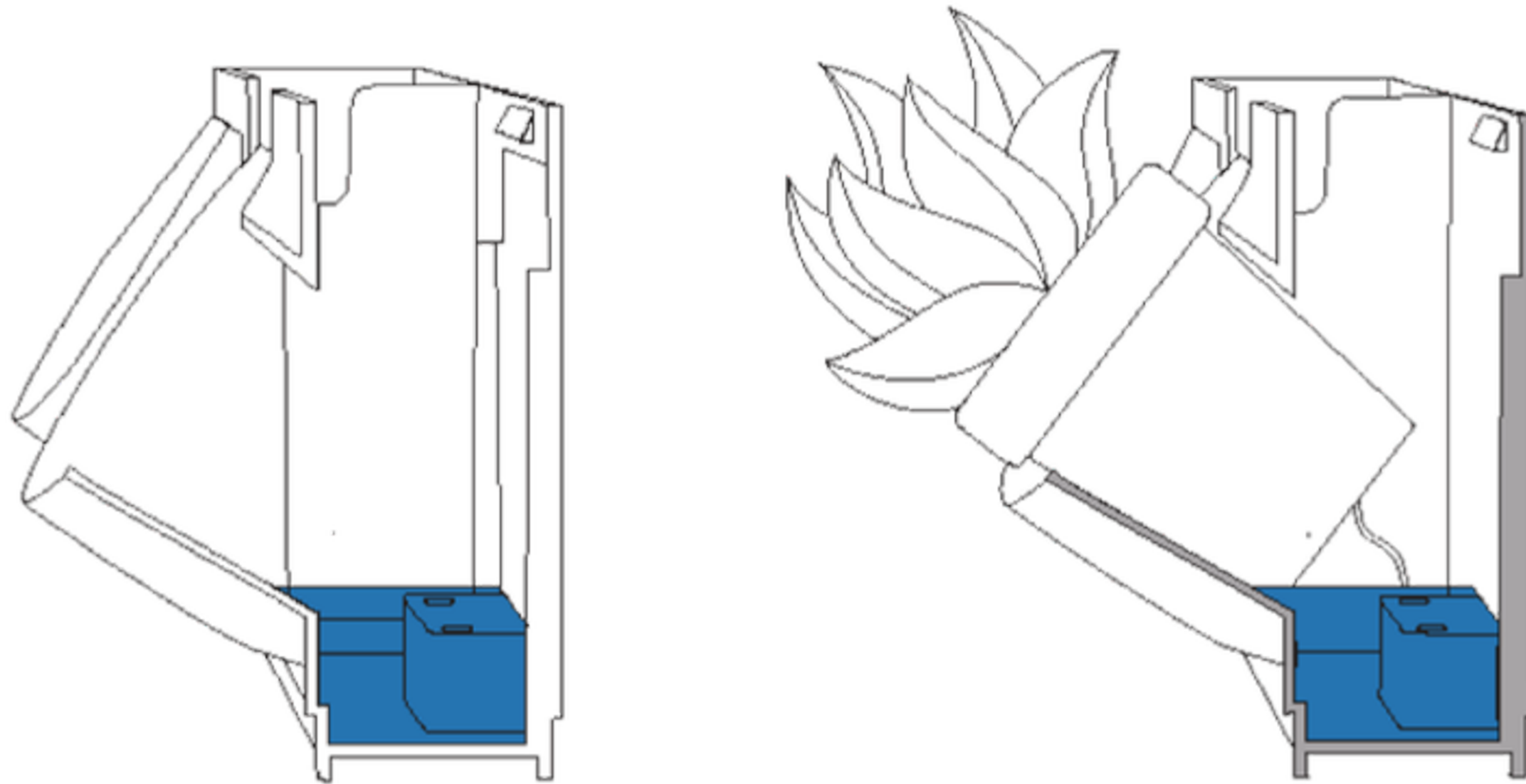


WATERING

The basic watering principle is that the plants are kept in their nursery pot, a wick is inserted into the plant, and the plant uses as much water as needed by drawing the water up the wick.

The bottom of each tray has a cavity where the water is retained until needed by the plants. This cavity should be allowed to run dry between watering cycles allowing the plants to dry out before being watered again and eliminating any of the risks associated with standing water and insects or bugs.





The unique design of the system allows water to be poured into the top of the wall only. As each tray fills it overflows into the tray below until every plant has exactly the same amount of water. This water is typically enough to keep the plant healthy for at least 2 weeks.

There are 3 methods of filling the Green Walls, each with their own specific benefits and costs.

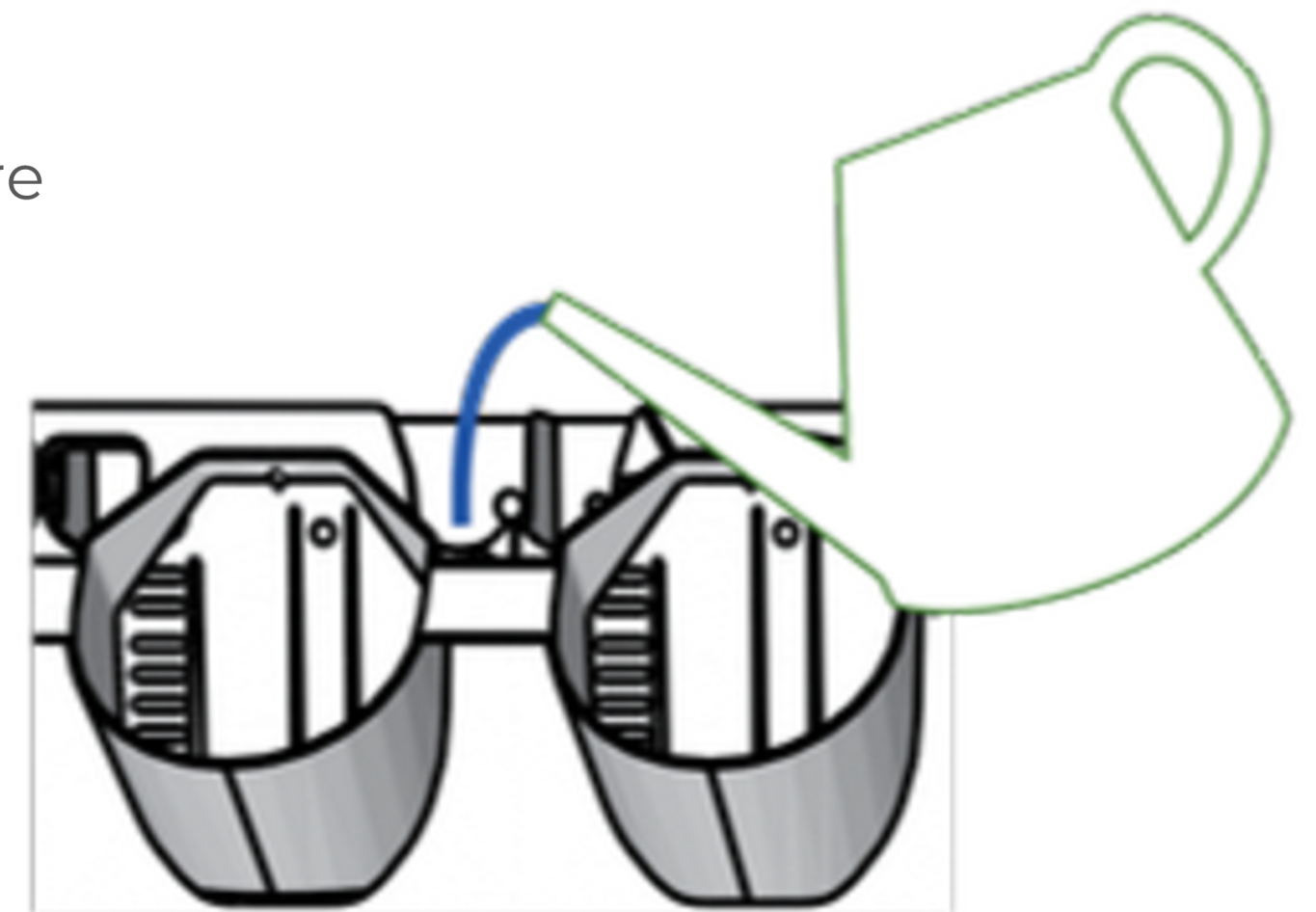
MANUAL WATERING

This is the simplest watering method and therefore also the easiest and cheapest to install. This method can be used on any size wall but is most often used on smaller walls.

The wall is installed as shown above and stoppers (provided) are placed in the bottom overflow holes to prevent any water escaping from the bottom of the wall.

A watering can or hose pipe is used to fill every 2 columns. Water is added to the top of the wall and the system is fully watered when the bottom trays have 1 inch of water.

Systems installed this way do not require any infrastructure such as water points, drains, electrical connections, etc., making it ideal for simple installs that are not part of another project.



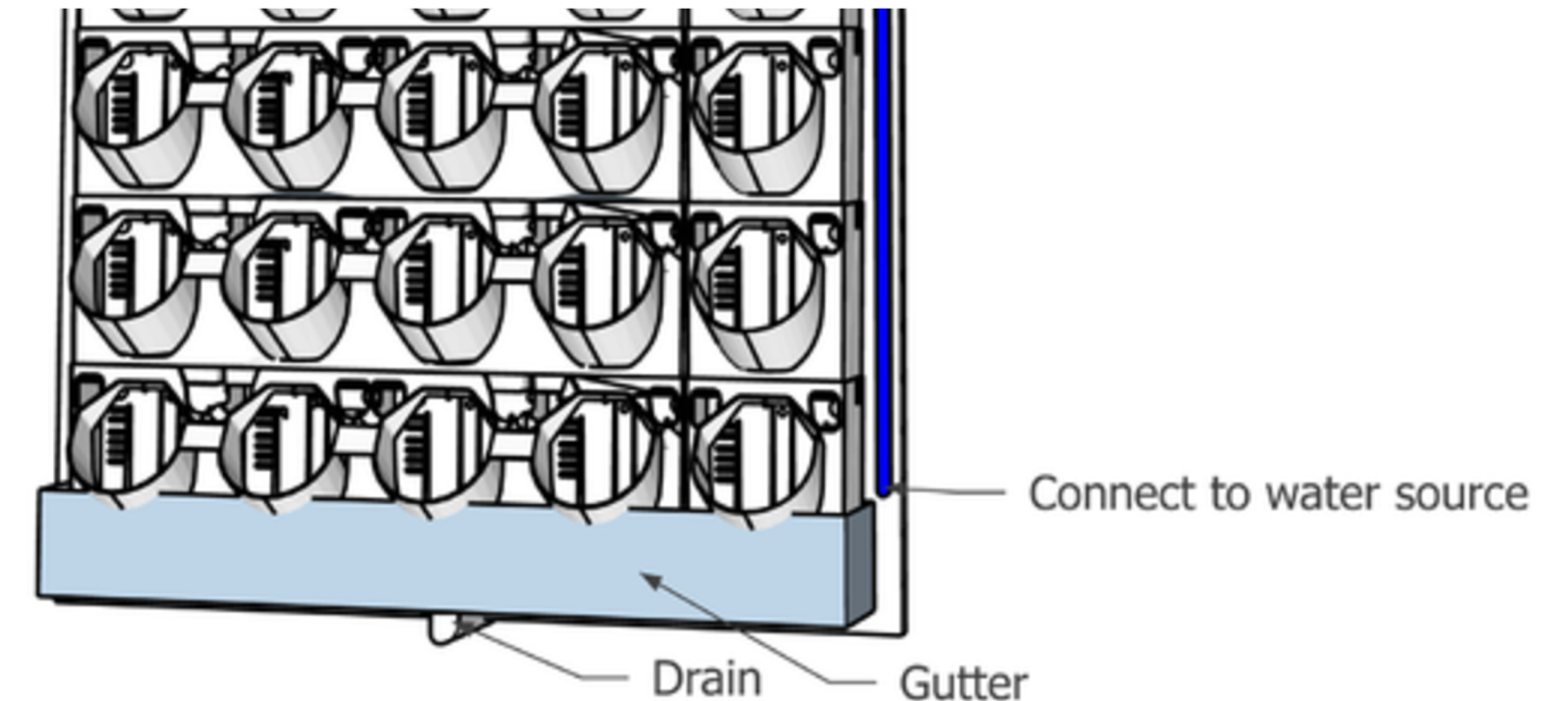
IRRIGATION WITH A DRAIN

Allows full automation Recommended for all projects over 40sqft.

The system is installed exactly as described above and waters the plants in exactly the same way. The difference is in how the system is refilled.

The irrigation line is run from a water source near the living wall. It runs along the top of the living wall system. The advantage over other systems is that the irrigation is not mixed in amongst the plants, making it really easy to maintain and install.

The water source can be turned on manually during a maintenance visit or it can be connected to a timer for complete automation.



The water will fill each of the trays to the required level. Any overflow water will drain out of the bottom of the wall and be diverted to a drain.

Requirements - water source, drain

IRRIGATION WITH A CATCH TANK

Allows Partial Automation

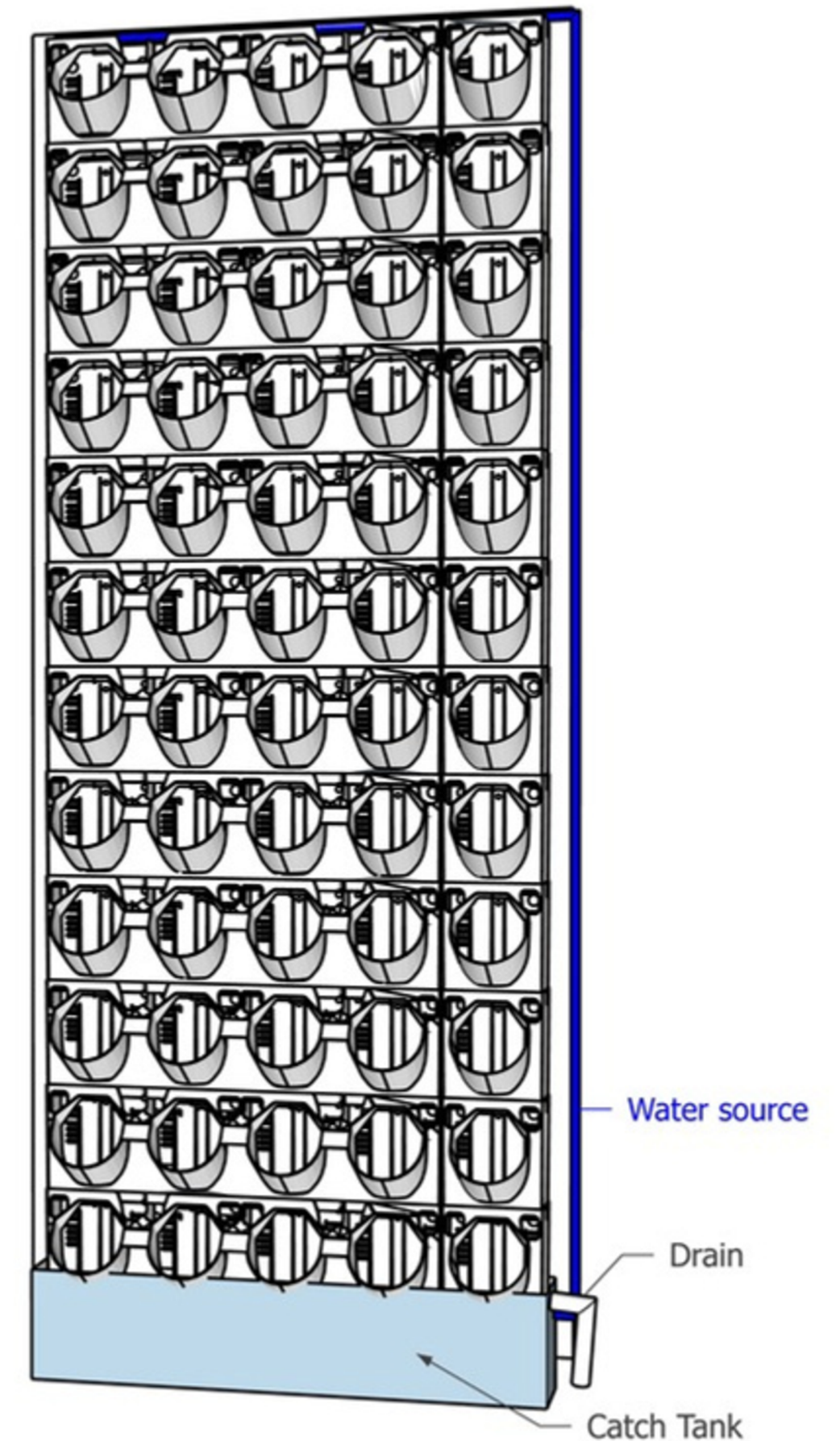
The system is installed exactly as described above and waters the plants in exactly the same way. The difference is in how the system is refilled.

UpScapers Green Walls modular catch tanks or a custom catch tank is installed below the greenwall. The irrigation line is run from the catch tank to the top of the wall system. The advantage over other systems is that the irrigation is not mixed in amongst the plants, making it really easy to maintain and install.

The catch tank can be filled manually or connected to a water source can be turned on manually during a maintenance visit or refilled using a float valve for complete automation.

A pump is installed in the catch tank. The pump can be A) turned on manually, B) Turned on using the app, C) turned on using a timer.

The water will fill each of the trays to the required level. Any overflow water will drain out of the bottom of the wall back into the catch tanks.



INSTALLATION

The tray system clips together and is fastened to the wall using screws appropriate for the wall surface. GrowUp recommends attaching a $\frac{5}{8}$ piece of plywood to the wall and attaching the system to the plywood.

Advantage:

limits the number of screws going into the wall, allows the plywood to be screwed to the drywall studs, and creates a waterproof barrier.

A waterproof substrate can be applied to the plywood to ensure any moisture or humidity from the wall does not damage the underlying wall of the plywood.



TRIM

Adding a decorative trim to the greenwall is a great way to finish it off with a very professional look.

See attached images and drawings of examples of trim layouts.



DIMENSIONS (INCHES)

	WIDTH	HEIGHT	DEPTH	DEPTH OF CUP
4 POT	23.23	6.06	2.60	5.39
2 POT	11.61	6.06	2.60	5.39
1 POT	5.81	6.06	2.60	5.39

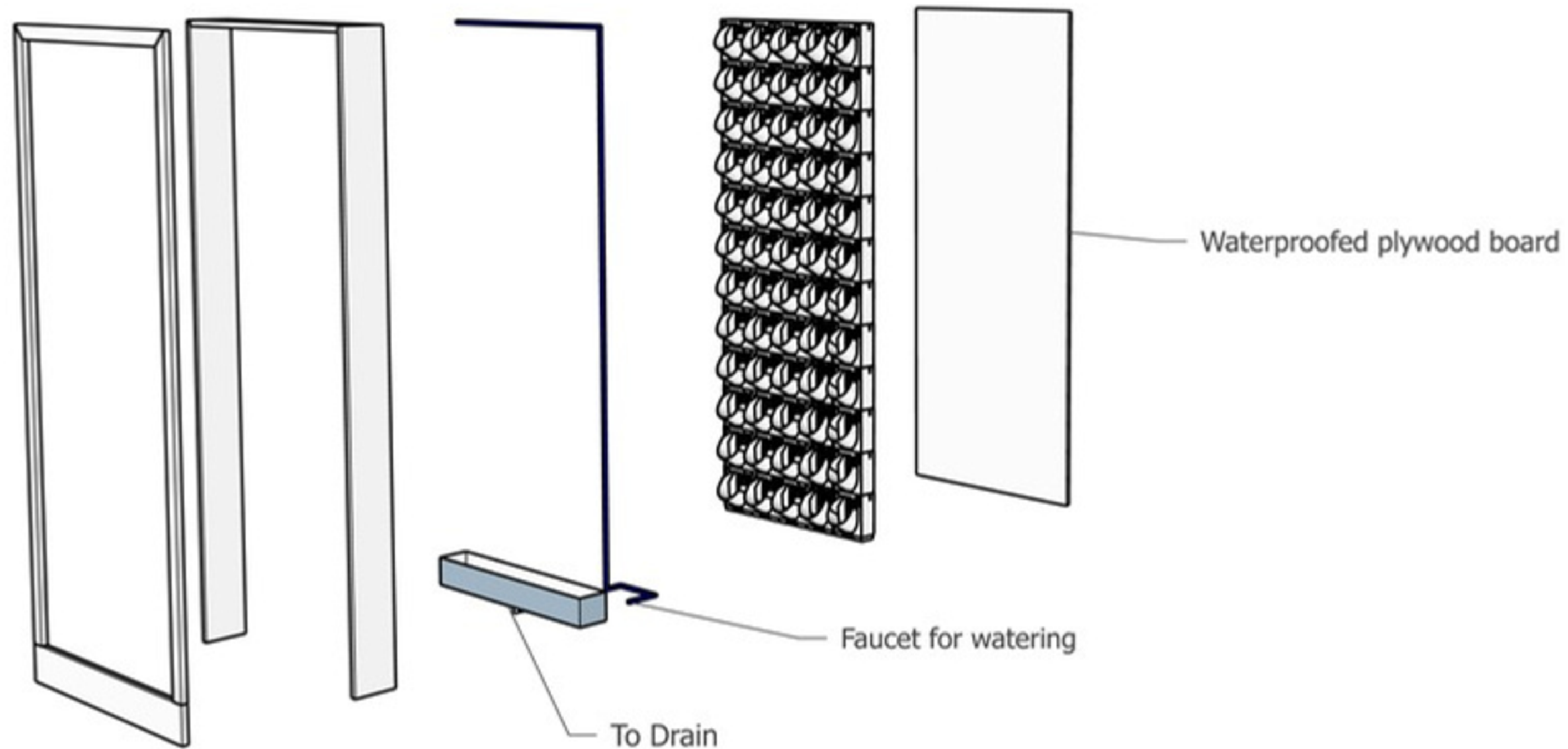
System weight, planted and watered: 10 lbs per sqft
Water required per Plant: 6.76 oz
Estimated Number of Plants per sqft: 4

PLANT POT SIZE

- The system caters for standard 4" nursery pots
- We recommend getting black pots if able because they are less visible against the system
- Estimated Number of Plants per sqft = 4



TYPICAL SYSTEM COMPONENTS LAYOUT







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AND HEALTHIER PLACES

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