

IWANTPLANTS®

Colliers Manchester Piccadilly Place



HYVERT
VERTICAL GREENWALLS

IMPROVING
AIR
WATER
BIODIVERSITY
Manchester
Metropolitan
University

08/11/2023

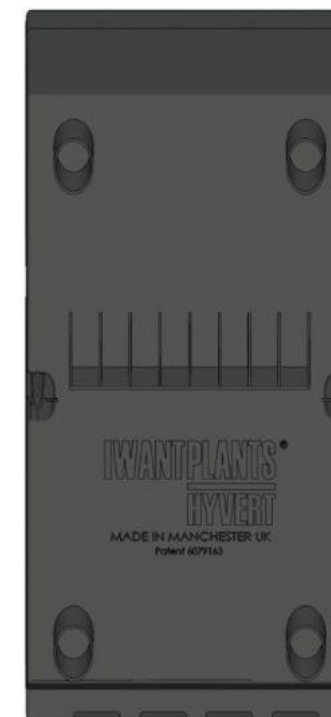
MODULE DESIGN



HYVERT CONCEPT
VISUALIZATION



FRONT
ELEVATION



REAR
ELEVATION



INTERNAL
ELEVATION



FRONT
AXONOMETRIC



REAR
AXONOMETRIC

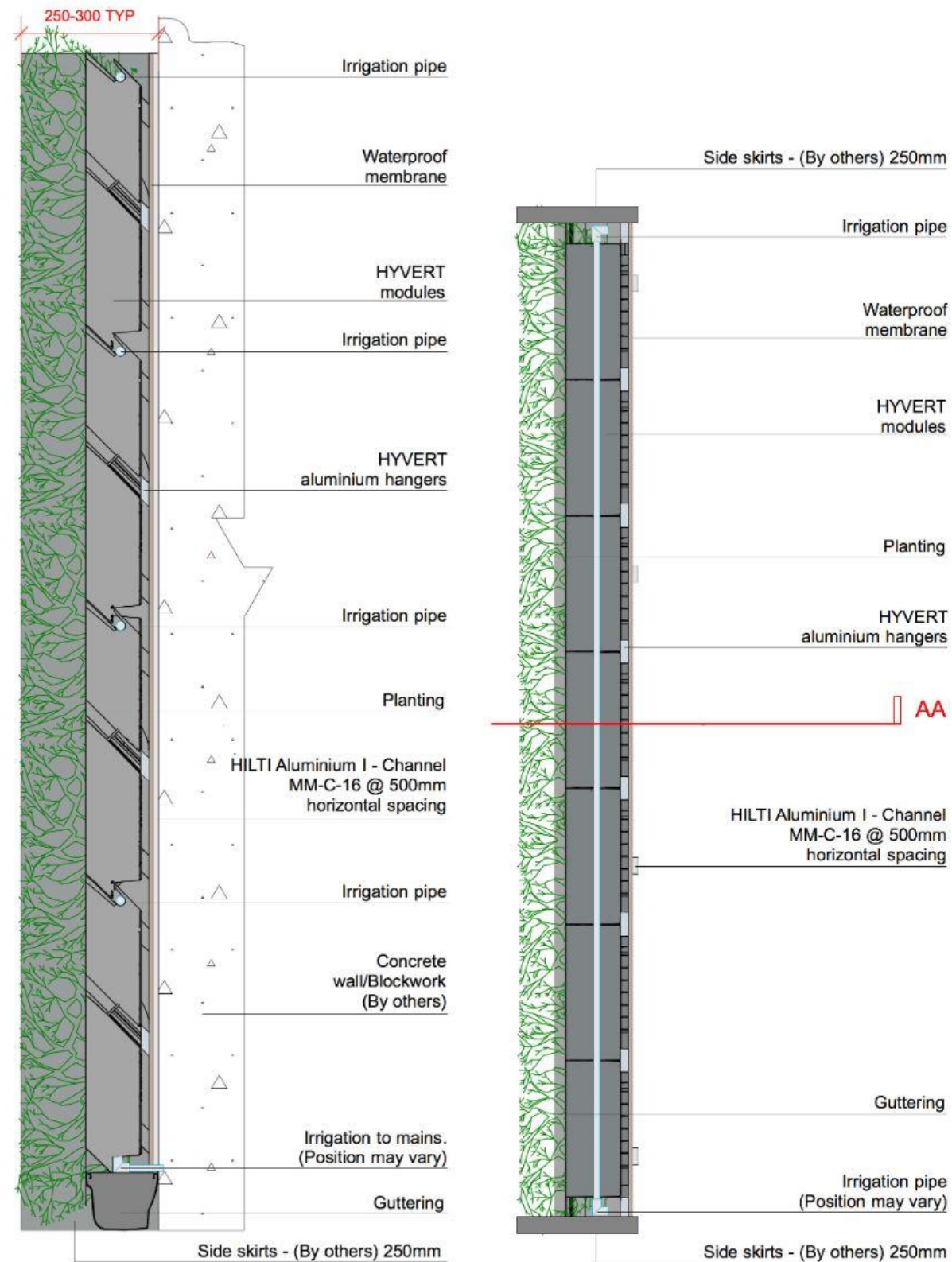


HYVERT
BLADES

HYVERT

I WANT PLANTS®

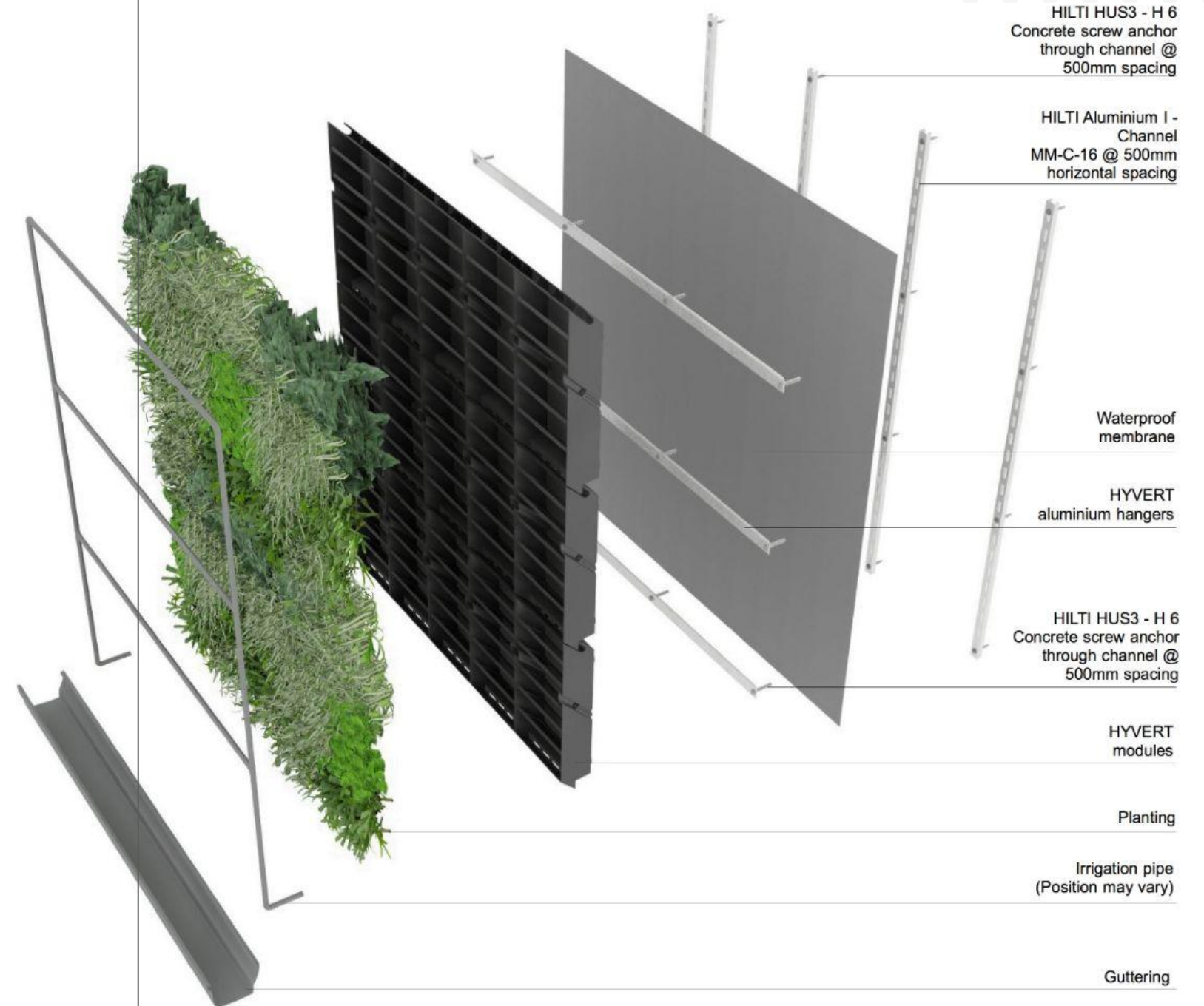
PLAN AND SECTION BREAKDOWN



Section AA - Typical detail
1:10@ A3

Plan layout - Typical detail
1:10@ A3

Break-down
Not to scale



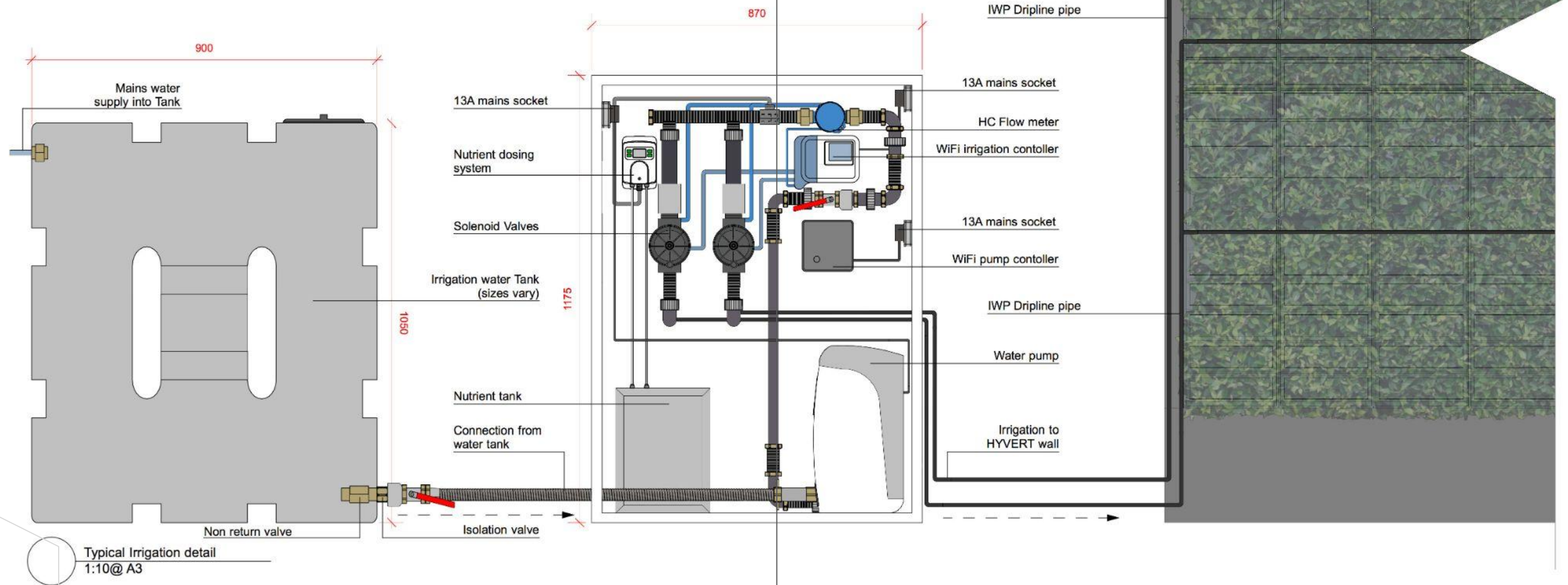
IRRIGATION

- Polypropylene round dripline, 16mm diameter, with flat pressure compensating drippers (1no. drippers per standard module) giving dripper flow rate of not less than 2.1litres per hr. Dripline fixed to the top of the module
- Pipework positioned in the top section for optimum aesthetics, and solar protection to reduce solar gain to dripline
- A suitably sized WRAS approved break tank to hold 24 hours of irrigation water supply. Pumping is to be via a reliable pump set capable of delivering the correct pressure at all drip locations. Water is to be distributed from the pump through zoned solenoid
- Irrigation will be located in client plant room, duct required to feed piped to living walls
- Water flow meter, Hunter or similar
- 20/25mm MDPE water feed pipe (pipe diameter varies according to the distance between the plant and the living wall) Speed fix if acceptable
- Irrigation pipework – 16mm Polypipe houseline with barbed fittings
- Irrigation controls multi wire controller to operate the solenoid valves. Manufacturer: Hunter or similar
- The controller will be programmed with flow-rate parameters for each zone, if power, water issues are noted IWP will be advised (subject to aftercare service)
- WI-FI or 4G signal required to run reporting and weather data to adjust the irrigation according to weather conditions.



TYPICAL IRRIGATION DETAIL

EACH PROJECT HAS A UNIQUE IRRIGATION DESIGN TO SUIT THE SPECIFIC INDIVIDUAL HYVERT LIVING WALL, THIS ILLUSTRATION IS AN EXAMPLE OF STANDARD RIG.



AFTERCARE SERVICE

ENSURING OPTIMAL PERFORMANCE ON YOUR INVESTMENTS

Like any live green infrastructure, a living wall is constantly growing and evolving so regular, attentive after-care is key to ensure it remains in good health.

During the planning stages and long before we install a HYVERT living wall system, special attention is given to future accessibility, eg. ladders and scissor lifts etc. Thus ensuring that the system can be easily accessed in the future by our maintenance technicians.

Careful consideration is also given to the plant species, composition and the irrigation system design, as these will also play a major role in determining the living wall's future maintenance schedule.

Some systems are completely automated and tied into the Building Monitoring System with multiple fail-safe sensors and remote monitoring capabilities, while others are as simple as manually filling up a reservoir once per week.



VERTICAL PLANT GROWING EXPERTISE

Our horticultural knowledge and vertical plant growing expertise enable us to promote ideal growing conditions using organic, non-toxic materials that are safe for everyone and for the environment.

One of the most important objectives in every project is minimising future problems and client hassle and that goes hand in hand with our commitment to sustainable practices.

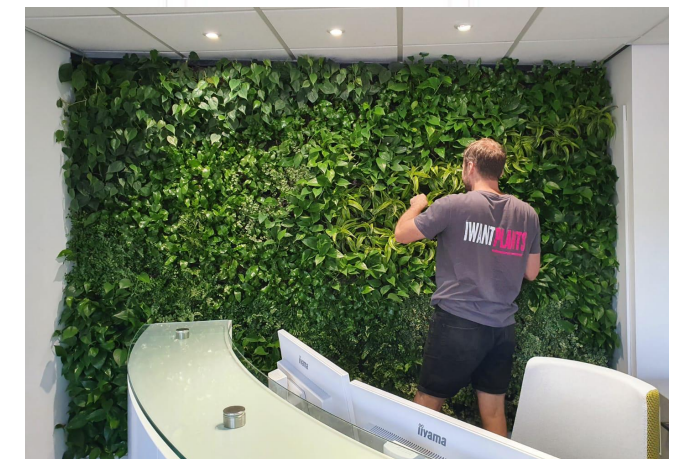
Strategies include using an Integrated Pest Management program (IPM) to mitigate pests and eliminate the use of toxic pesticides.

We recommend our HYVERT living walls are followed up with weekly or monthly maintenance schedules, to ensure the system is functioning smoothly which keeps the wall looking vibrant and healthy throughout the year.

See following page for our **HYVERT Aftercare Maintenance Schedule**, which lists the key areas of care each month. These include:

Visual Health Check Visits

HYVERT Technicians will attend to complete overall Visual maintenance checks on each area of the wall. These will be complete from ground level without any access equipment. All Visual Health Checks include testing of the irrigation system and clearing of any ground level guttering.



High Level Maintenance Visits

On pre-planned high-level maintenance visits, HYVERT Technicians will touch all areas of the Living Wall ensuring that all plants are trimmed, cleared of dead leaves and treated for any pests. Any failed specimens are replaced on these visits too.

24/7 Remote Monitoring Aftercare

Our systems are market leading in terms of the monitoring that can be carried out off-site. We ensure that the systems are all working correctly 24/7 and will notify the client of any interruptions to the systems or faults which may have occurred. We will endeavour to have these faults remediated within 7 hours.

Dosing Visits

Different months/seasons in the year will require various types of dosing. (The aftercare maintenance schedule next page, provides more detail.) We carry out basic plant feeding at key times in the year which ensures the plant soil medium remains in perfect condition. We also introduce various biological pest controls via the dosing system at the right time of year too.

HYVERT AFTERCARE MAINTENANCE SCHEDULE



	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TYPE OF VISIT	Visual	Visual	High Level	High Level	High Level	High Level	High Level	High Level	High Level	High Level	Visual	Visual
VISUALLY INSPECT THE LIVING WALL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24/7 REMOTE MONITORING	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CHECK HEALTH AND MOISTURE OF THE PLANTS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CARRY OUT REMEDIAL PRUNING WORK WHERE NECESSARY			✓	✓	✓	✓	✓	✓	✓	✓		
PRUNE IN ACCORDANCE WITH SEASON			✓			✓			✓			
SEASONAL DEADHEADING OF PLANTS					✓					✓		
TREAT FOR PEST AND DISEASE			✓	✓	✓	✓	✓	✓	✓	✓		
SEASONAL FEEDING/NUTRIENTS ADDED TO DOSING SYSTEM			✓	✓		✓		✓				
BIOLOGICAL PEST CONTROL ADDED TO DOSING SYSTEM				✓	✓			✓	✓			
SERVICE THE IRRIGATION SYSTEM			✓					✓			✓	
CHECK RUN OFF OUTLETS FOR ANY BLOCKAGE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
REPLACE ANY FAILED PLANTS			✓	✓	✓	✓	✓	✓	✓	✓		
SWEEP AND TIDY BELOW WALL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

