

Fytowall

Your Perfect Vertical Garden

Vertical Gardens

What is the Vertical Garden? The Vertical Garden is a vertical living Fytowall full of healthy growing plants. Suitable for indoor or outdoor use. The vertical garden consists of series of Fytowall panels. Being modular we can build Fytowall to any size. These growing panels offer more, with the ability to be interchangeable. The vertical garden can be used as a feature using different plant types or colours. Highlighted using lights or made into different shapes.

Why use Fytowall as the 'Vertical Garden'? Fytowall is an aminoplast resin foam. This results in a light, but very stable and firm white spongy pH neutralised growing media. This media is very water efficient and robust for a wide range of plants and climate types.

Fytowall Growing Panel: The standard Fytowall growing panel, is wrapped in UV stable shade cloth. These panels are planted with a series of individual plants. The effect of the shade cloth wrapping is three fold. It adds stability, lowers evaporation and gives an opportunity to change the background colour to black, green or wheat/sandstone.

Size: The interchangeable panels come in a standard size of 100cm long x 49cm high x 14cm depth. This equates to 0.49m² in area and 68 litres of volume. We can also custom make panels of different lengths to suit a project.

How do I get plants to grow on the Fytowall foam panels?

Fytowall has a balanced air/water ratio over the panel height, which enables all suitable plants to grow in both the top and the bottom of the panel, with little water or nutrient gradient.

Our research & development facility has provided numerous species tested for their suitability in growing vertically and Fytowall will only be provided with plants that we do well in the host wall's growing environment.

Fytogreen will plant and grow in all panels for installation of the Fytowall.

Weight: The standard panel FWG14 has an absolute saturated weight of 44kg per 0.5m² or 88kg per m² without plants. However under normal watering conditions, you could expect the panels to be at approximately 25-35% saturation by volume. ie . holding 25-35L of water and nutrients. This equates to 12.5-17.5kg per 0.5m² panel. Plant weight per panel will depend on the species and age, but when fully grown, you could allow 12kg per m² for plants like mondo grass up to 24kg for turf panels.

Are there limits to Vertical Garden panels? The interchangeable panels must be placed lying on their long edge. This means that the maximum vertical height of one panel can only be 50cm. Each panel must have a physical barrier between it and the one above or below. This applies to a wall 1m high or 5 m high. The minimum gap required between panels is 20mm, enabling irrigation lines and panel support. The Vertical Garden can be grown in exterior or interior spaces. The overriding factor will be plant selection and available UV light.

How do I hold the Fytowall vertical garden in place? – see [Design Section](#)

Fytogreen will install and commission the Fytowall vertical garden, inclusive of installation of the irrigation and fertigation system.

Where a picture frame is required to finish the garden as “living art”, different options will be available on request.

Irrigation Design & Installation

Fytogreen offers a separate service to design and install the required irrigation system. Things to keep in mind are that each panel requires water to be applied to the top of the panel. As there is no potting mix/soil, fertiliser has to be applied through fertigation. This is fertiliser mixed with water and applied in liquid form through the irrigation lines. Each tray has to have the ability to take excess water away, either dripping to a drain below the wall or from each tray individually.