



VertiFlora Living walls

Vertical Landscape

Green wall – vegetation system grown from the soil at the base of the wall, typically climbers clinging to the structure or up trelliswork

Living wall – vegetation system grown from soil pockets or root support system fixed to the structure of the wall or building façade



Living walls offer building designers and owners a total new construction façade concept

Green walls have been a feature of buildings for many thousands of years. Plants growing from the soil at the base have been either left to cling onto the building structure or have been trained up trellis systems to create a green façade.

Green walls have generally been limited to only a few plant types that are able to climb up surfaces and as such have left little scope for these to be considered a real design feature. With Wallbarn - VertiFlora Living walls the surface of any structure can be radically and beautifully enhanced. Wallbarn produce a wide range of façade types and the VertiFlora Living wall adds a new dimension to the range.



VertiFlora Living wall system can be used in a number of ways.

Commercial and residential buildings can be enhanced by the use of VertiFlora living walls. Rain screens, partitions, walls and landscape features all benefit from its unique design, with low water consumption and minimal maintenance requirements.

For permanent use, our smart watering system can be installed. It is available as an integrated system (that can be linked to a BMS) or a simple domestic type application.

VertiFlora can also be planted on site if required.

The plant apertures of the VertiFlora system have been designed to use 9cm, 1 Litre (pictured right) and 2 Litre plants.

Because of the modularity, each VertiFlora cassette can be filled with different soils to accommodate most planting schemes in almost any location in the world. This also gives designers a large amount of flexibility to create varied and interesting planting schemes across the wall.

Watering requirements can also be tailored to each individual module to suit the needs of different plant types and so its versatility makes VertiFlora a natural choice for designers and customers alike.

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Climate change is forcing us to re-think the way we not only construct buildings but how we live and work in them. Solar, wind and ground source energy etc. are now considered 'normal' practice and other features such as green roofs are now considered to be standard building methods.

Not only do living walls change the visual aspect of structure they provide a range of benefits that makes their use invaluable in the battle of mitigating climate effects.

Wallbarn - Vertiflora Living walls can provide:

Reduction in thermal loss, Wind buffer, Wildlife habitat, BREEAM points, dust and pollution absorption, mitigation of Urban Heat Island Effect

VertiFlora uses water sparingly and efficiently reducing the frequency of watering which is due to the material used, the unique plant apertures and the orientation of the panels.



Specification

Unit size: 1000mm long x 250mm high x 206mm deep

Quantities: 4 units per m²

Manufactured in the UK: HDPE

Colour: Green

Substrate: Varies to suit plant type

Empty weight: 4.2kg/unit

Wet weight: Approx. 25kg/unit

Mounted onto: Unistrut bolted to structure 1000mm apart with Vertiflora module bolted to Unistrut at each end and fixed to bracket with spring loaded nut

Soil Volume: 32litres/unit

Maximum water capacity: 4.3litres
VertiFlora is available in three standard aperture sizes

- 9cm pot size – 18 plants per unit
- 1litre pot size - 8 plants per unit
- 2 litre pot size – 5 plants per unit

