



**DG-140M**



deep green  
vertical gardens



# DG -140M modular vertical garden system

Vertical gardens, also known as *living walls* or *green walls*, are a recent innovative development in landscaping with a host of benefits. Vegetation is grown in specially designed systems that are supported vertically, creating exciting new possibilities for landscape, urban and interior design.

Deep Green has been pioneering vertical garden systems for specific application in Western Australia; with specialised lightweight growing media, automated direct reticulation methods and a palette of species specifically selected to be hardy, adaptable and aesthetically pleasing.

Our DG - 140M modular vertical garden system is a robust and effective solution for providing vertical greening. Specially engineered to be capable of being planted on all sides, and featuring a unique water retention fibre, our systems are suitable for supporting lush vegetation growth with some of the lowest water requirements on the market.







## Benefits of Vertical Gardens

Temperature - reduced ambient air temperature and load on air conditioning

Surface Area - increased available planting area, such as on fences and walls

Air Quality - absorbs dust, particulates and pollution, naturally filtering the air

Beautification - aesthetically pleasing views and microclimate near garden

Biodiversity - increased biodiversity values and micro habitat creation

## The Biophilic Connection

Recent research is proving that exposure to nature is innately healthy for people. A landmark study by Kaplan & Kaplan found that patients recovered faster when able to view greenery from their hospital bed. Further studies are finding evidence for increased employee productivity and wellbeing when workers are kept in touch with nature. With our congested and highly developed urban centres it is becoming harder to introduce new areas of vegetation, but now with vertical gardens previously inert concrete walls can become havens for biodiversity - whilst lowering ambient air temperatures , absorbing pollution and dust particles and becoming aesthetic features in their own right. Further studies have shown how property values can be increased by providing views over vertical gardens versus blank concrete facades.

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## DG -140M Module

Height: 500mm

Width: 500mm

Depth: 140mm

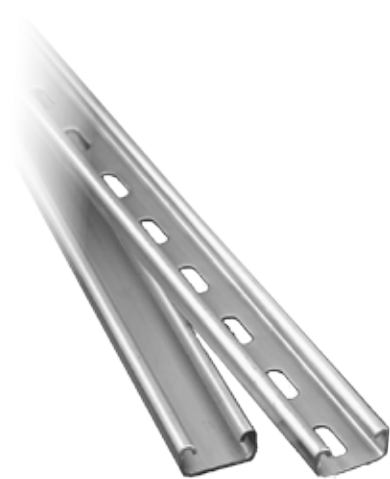
Internal volume: 24L

Weight without media: 2kg

Weight with dry media: 12kg

Weight fully saturated: 21kg

Material: Recycled HDPE



## Unistrut Supports

Width: 41 or 21mm

Depth: 41 or 21mm

Weight [41mm] : 2.45kg/m

[21mm] : 1.65kg/m

Working load [41mm] : 297kg

[21mm] : 96kg

Material: Hot dipped

Galvanised mild steel

Fixing: Heavy duty wall anchor



## Plants & Media

Media: DG lightweight non -  
organic growing media

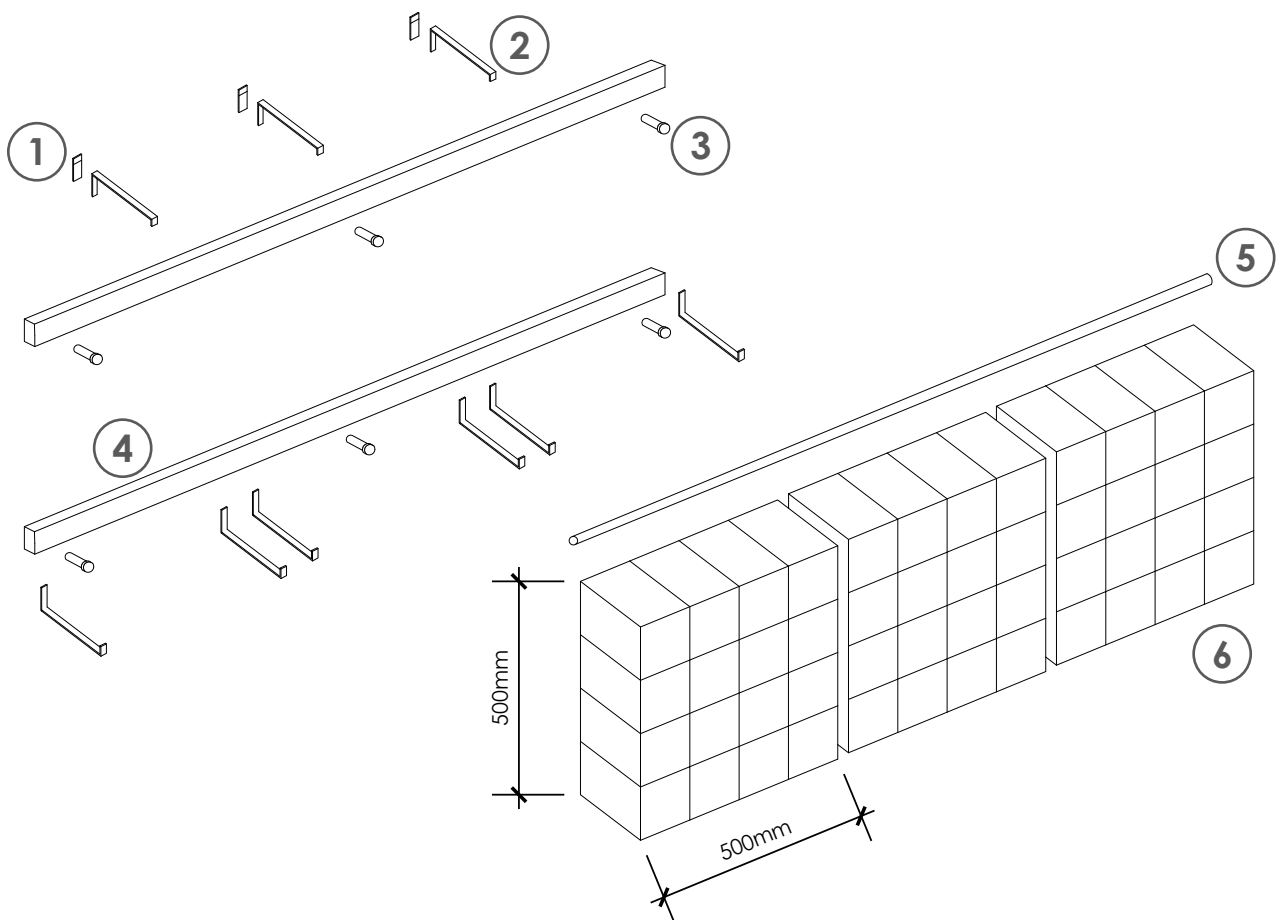
Grasses: *Lomandra*, *Liriope*  
*Acorus*, *Festuca* etc.

Natives: *Eremophila*, *Hemiandra*,  
*Olearia*, *Scaevola* etc.

Succulents: *Kalanchoe*, *Senecio*,  
*Sedum*, *Echeveria* etc.

Other: *Alternanthera*, *Nandina*,  
*Asplenium*, *Philodendron* etc.

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1: Spring nut   2: Support bracket   3: Heavy duty wall anchor   4: Unistrut support system  
5: 13mm irrigation line   6: DG-140M module



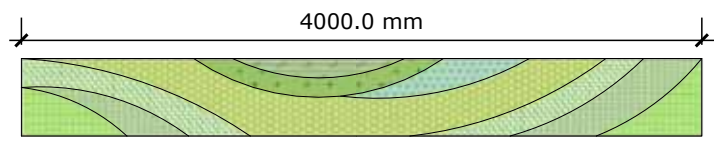
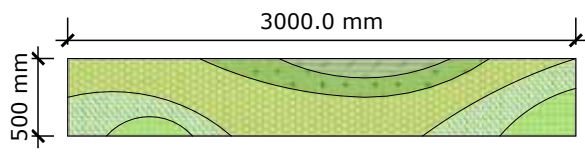
## Irrigation & Fertigation Information

Water and nutrient management are critical in ensuring a successful and cost effective vertical greening system. Water management is one of the biggest challenges in vertical greening, especially in Western Australia's harsh climate. The specialist water retention fibre and drip irrigation water supply in our vertical garden systems make them one of the most efficient on the market.

To ensure plants are healthy throughout the lifetime of the system, it is necessary to provide some form of fertilization, as the natural processes of litter accumulation and nutrient breakdown are not present. Our discreet and effective fertigation units are fitted directly into the reticulation system and provide appropriate nutrients directly into the plants root zone, providing optimal establishment and development with minimal intervention.



# DG -1 40M design & visualisation



*Lomandra confertifolia* 'Little Con'



*Liriope* 'Evergreen Giant'



*Scaevola aemula* 'Mauve Clusters'



*Tradescantia spathacea* (aka Rhoeo)



*Olearia axillaris* 'Little Smokie'



*Acorus calamus* 'Variegatus'



*Alternanthera dentata* 'Ruby'











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