

phs GREENLEAF
Maintenance Guidelines

MAY 2023

PlantBox is a cleverly simple, stackable and modular living wall system made in the UK. With an integrated reservoir and float level indicator, means PlantBox is the ultimate sustainable, low maintenance greening solution that doesn't cost the earth.

There are a few hints and tips to keep your plants thriving in your PlantBox, as outlined below...





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Watering and Irrigation Systems

Watering

Each PlantBox trough has a yellow float water level indicator, located on the left hand side of the reservoir. This float indicator tracks up and down in line with the amount of water in the reservoir, telling you and your clients when to top up.

Two small capillary felt pieces should be slotted through the shelves inside the PlantBox. 50% of the felt should be folded over on top of the shelf, the other 50% will feed into the reservoir beneath.

Water wicks up to the longer piece inside the PlantBox and distributes water along the length of the trough so that plants each get even watering.

Irrigation Systems

Watering could not be easier. Simply water the top of each PlantBox column to allow each reservoir to fill up. Once reservoirs are full, indicators will show as 'Full', and excess water will cascade vertically into the PlantBox below until it reaches the ground. For indoor projects we provide a plug that will stop any unnecessary drops and provide an extra 1.5L of water capacity to the trough.

For smaller/domestic projects, a watering can is suitable to top up when required. For larger projects, we recommend our irrigation pipework that connects to an outdoor tap or mains water feed via an automated timer.

We recommend using the Claber Rainject controller for best results.

Watering requirements

Autumn to Winter – (October February) Every 4 weeks *depends on aspect

Spring - (March to June) Every 1 2 weeks *depends on aspect

Summer - (July to September) Once or twice per week *depends on aspect

Interior - Every 3 4 weeks

Compost

If you are using our recommended amount of 4nr 1LTR (13cms) size plants, you will need approx. 4 5 litres of compost per each PlantBox unit.

Remove plants from their nursery pots, and surround the roots with compost. This can be done once the PlantBox is fixed back to the wall, or individually before fixing back to the wall.

Often perlite is added to the compost for extra air filtration.

Ensure the filter on the left hand side of each PlantBox is clear of debris, and be careful not to get compost into the reservoir to avoid the float level indicator from sticking.

For exterior walls, we recommend a well graded compost such as Dalefoot potting, or Melcourt Sylvagrow

For interiors a Miracle Grow multi purpose /house plant compost is suitable..

Feeding

To keep plants looking at their best, we recommend feeding plants once every season, especially in the Spring and Autumn. We would also recommend feeding once every 4 6 weeks during Summer.

Nutrients can be added into the soil through a continuous release feed, or through a liquid tomato/seaweed feed via the reservoirs applied as per the manufacturers instructions (i.e. Xml per every Xml of water)



Compost and Feeding



Pruning and Pest Control

Pest control

To keep your PlantBox living wall looking its best, we recommend a monthly check. During this check we recommend;

- Remove any dead leaves from the plants, compost or filter to avoid fungus and infection
- Look out for signs of pests such as changes in leaf colour or texture. Leaves may become spotted, speckled, or yellowed when insects are present. Leaves might also become distorted or misshapen, often looking cupped or pinched. You may spot webbing draped along undersides of leaves too.
- A natural way to combat pests, and to encourage biodiversity is via our habitat boxes as sold via growingrevolution.com. Birds, bugs and butterflies will nest here, feasting on any unwanted pests throughout the wall.
- Alternatively, a monthly spray of SB Invigorator will help combat the onset of pests nesting in plants on your living wall.

Pruning

We recommend pruning plants on a seasonal basis, with a significant cut back in Spring and Autumn. This will allow plants to produce healthy new shoots and flowers that will look visually impressive, and attract wildlife such as bees and butterflies.

Pruning plants that become too large is also a good chance to check for common pests such as Thrips, vine weevil and aphids. Common Interior pests are mealy bug, spider mite, scale and sciarid flies.

If a plant is infested or dying and needs replacing, carefully remove by scooping the plant up with your hands or if deeply rooted a small trowel. Replace with new plant and remove an inch of soil on surrounding plants and add in fresh soil.

Sciarid flies or Fungus gnats are a very common houseplant pest and to break the life cycle you need a two pronged approach place sticky traps around the plants which attract the adults (so they stop laying eggs) and parasitic nematodes or the larvae (to stop them becoming adults). Depending on the severity, you may need to repeat this 2 weeks after the first treatment.



Interior projects

Low light tropical plants typically like bright indirect light, however too much light or direct sun will burn their foliage. In places where there is not enough light, supplementary lighting is required.

We recommend lighting levels of around 1,000lux for the entire living wall.

Extra lighting can be added to boost light levels, and levels can be tested using light meters.

We can assist with several lighting solutions for your living wall, including spot and track lighting.

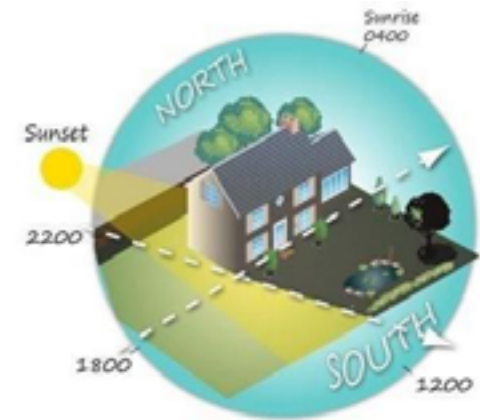
*Lux is a measurement of illuminance, the total amount of light that falls on a surface.

Lighting

Exterior projects

When choosing plants for exterior walls, it's important to match the species of plant with the aspect of the garden. For example at its peak, the sun is directly to the south, so south facing gardens get the most sunlight and most flowering varieties will thrive here particularly those suited to warm / mediterranean climates.

For north facing walls, you will need to seek out shade tolerant plants. These are typically larger in leaf size and green in colour.



Recommended Plants

Recommended plants for external use
(based on 1LTR pot size)
South Facing - Full Sun



Acorus Gramineus
'Ogon'



Bergenia cordifolia
'purpurea'



Convolvulus
cnerorum



Erigeron
karvinskianus



Eryngium
'blauer zwerg'



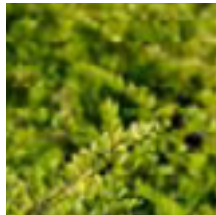
Euonymus f.
'harlequin'



Festuca
glauca



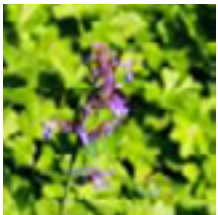
Geum 'Mrs. J.
Bradshaw'



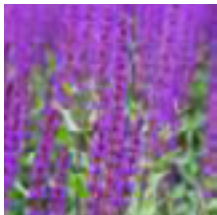
Lonicera
'maigrun'



Luzula
'nivea'



Nepeta
'faassenii'



Salvia nemorosa
'caradonna'



Scabiosa
'blue note'



Stachys
byzantina



Verbena
'bonariensis'

Plant List

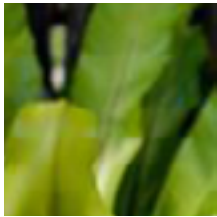
- Acorus gramineus 'ogon'
- Bergenia cordifolia 'purpurea'
- Convolvulus cnerorum
- Erigeron karvinskianus
- Eryngium 'blauer zwerg'
- Euonymus f. 'harlequin'
- Festuca glauca
- Geum 'Mrs. J. Bradshaw'
- Lonicera maigrun
- Luzula 'nivea'
- Nepeta 'faassenii'
- Salvia nemorosa 'caradonna'
- Scabiosa 'blue note'
- Stachys byzantina
- Verbena 'bonariensis'

Recommended Plants

Recommended plants for external use
(based on 1LTR pot size)
North Facing - Full Shade



Ajuga reptans
'burgundy glow'



Asplenium
scolopendrium



Bergenia
'baby doll'



Cyrtomium
falcatum



Dryopteris
erythrosora



Erysimum
'bowles mauve'



Euonymus
japonica



Euphorbia var.
robbiae



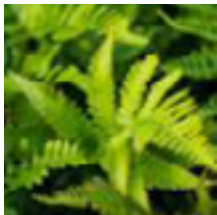
Heder helix
'green wonder'



Heuchera
'key lime pie'



Liriope muscari
'big blue'



Polystichum
polyblepharum



Sarcococca
humilis



Skimmia japonica
'Rubella'



Tiarella
'cordifolia'

Plant List

- Ajuga reptans 'burgundy glow'
- Asplenium scolopendrium
- Bergenia 'baby doll'
- Cyrtomium falcatum
- Dryopteris erythrosora
- Erysimum 'bowles mauve'
- Euonymus japonica
- Euphorbia var. robbiae
- Heder helix 'green wonder'
- Heuchera 'key lime pie'
- Liriope muscari 'big blue'
- Polystichum polyblepharum
- Sarcococca humilis
- Skimmia japonica 'Rubella'
- Tiarella 'cordifolia'

Recommended Plants

Recommended plants for external use
(based on 1LTR pot size)
East/West Facing - Partial Sun and Shade



Armeriasplendens
'maritima'



Astrantia
'roma'



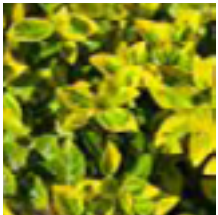
Campanula
'bellflower'



Carex
'ice dance'



Euonymus f.
'emerald gaiety'



Euonymus f.
'emerald n gold'



Fatsia
japonica



Hebe
'albicans'



Heuchera
'fire chief'



Heuchera
'key lime pie'



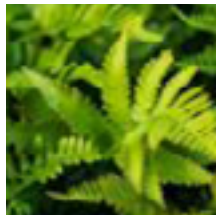
Pachysandra
terminalis



Phlox
paniculata



Polystichum
setiferum



Polystichum
tsus-simense



Vinca
minor

Plant List

- Armeriasplendens 'maritima'
- Astrantia 'roma'
- Campanula 'bellflower'
- Carex 'ice dance'
- Euonymus f. 'emerald gaiety'
- Euonymusf. 'emerald n gold'
- Fatsia japonica
- Hebe 'albicans'
- Heuchera 'fire chief'
- Heuchera 'key lime pie'
- Pachysandra terminalis
- Phlox paniculata
- Polystichum setiferum
- Polystichum tsus-simense
- Vinca minor

Recommended Plants - Indoor

Indicative Plant Montage - 'Tranquil'



Overall panel dimensions: 2430mm (w) x 1696mm (H)

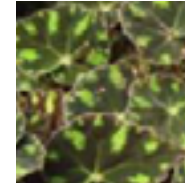
Plant Palette



Aglaonema
'Silver Queen'



Asplenium
Nidus



Begonia
'Tiger Paws'



Begonia rex
'Escargot'



Chamaedorea
elegans



Ficus
pumila



Polypodium
vulgare



Selaginella
apoda



Soleirolia
Soleirolia



Spathiphyllum
wallisii



Syngonium
podophyllum
'Pixie'

Recommended Plants - Indoor

Indicative Plant Montage - 'Fresh Air'



Overall panel dimensions: 2430mm (w) x 1696mm (H)

Plant Palette



Aglaonema
'Maria'



Anthurium
'Red'



Asplenium
nidus



Begonia rex
'Escargot'



Begonia rex
'Red Robin'



Chamaedorea
elegans



Epipremnum
aureum



Ficus
pumila



Hedera
helix



Nephrolepis
'Green Fantasy'



Peperomia
rotundifolia



Soleirolia
soleriolii



Spathiphyllum
wallisii



Syngonium
podophyllum
'Pixie'

Recommended Plants - Indoor

Indicative Plant Montage - 'Subtropical Rainforest'



Overall panel dimensions: 2430mm (w) x 1696mm (H)

Plant Palette



Anthurium
'Red'



Asplenium
nidus



Begonia
'Benitochiba'



Begonia
masoniana



Cathea
'Network'



Chamaedorea
elegans



Ficus
pumila



Maranta
leuconeura var.
erythroneura



Peperomia
rotundifolia



Polypodium
vulgare



Selaginella
apoda



Soleirolia
soleriolii



Syngonium
podophyllum
'Pixie'