



# HI-GREEN

The System Know-How for Sustainable & Ultra-low Maintenance Green Roofs and Walls



Prince's Hi-Green Roof and Vertical Wall Systems use a specialised "live" hydroculture technique to ensure sustained plant health. System components include Prince's unique water and nutrient-absorbent planting medium, Hi-Green Lite Composite, together with irrigation systems and, where necessary, water reservoirs in individual planters. These components reduce the watering requirement and more sustainable, helping to make Hi-Green Vertical Roofs and Walls ultra-low maintenance systems.

Prince's Hi-Green Systems create an instant visual impact, are easily installed, low-maintenance and are an environmentally-friendly way to enhance the interior and exterior appearance of your building.

## ADVANTAGES

- Plants extensively tested in our nurseries for a tropical climate
- Systems designed to minimise regular watering
- Modular system ensures fast installation on site
- Intense quality control undertaken before installation
- Excellent accommodation for tough and strong plantation
- Reduced plant damage during stormy weather
- Customised design

### ENVIRONMENTAL BENEFITS

- Controls temperature
- Mitigates UHI (urban heat island) effect
- Conserves energy
- Improves air quality
- Reduces noise
- Retards fire

### ECONOMIC BENEFITS

- Reduces energy usage
- Increases property value
- Improves company's image

### SOCIAL BENEFITS

- Improves livability
- Gives rise to healthier, happier, more creative people

### AESTHETIC BENEFITS

- Beautifies bare internal and external walls / roofs
- Adds a natural dimension to a building
- Aesthetically appealing

ROOF PLANTER  
ROOF TURF  
WALL PLANTER  
WALL PANEL  
OTHER SYSTEMS

**What system is right for you?  
Our Hi-Green Specialists can advise you!**



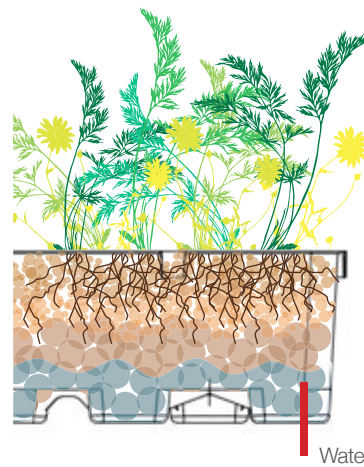
Hi-Green Vertical Wall Systems are lightweight and modular, and are easily installed, replaced and replanted at any time.

### PLANTING MEDIA - HI-GREEN LITE COMPOSITE

**A treated, highly absorbent, non-organic, and soil-less volcanic ejecta substrate**

CHARACTERISTICS:

- A premix of natural minerals and micro nutrients which are essential for tropical plant growth
- Fertilised to ensure plant health
- No water contamination (unlike organic and soil systems which can cause plant root rot)
- Highly water and nutrient absorbency
- Capillary action ensures that plants receive “non-contaminated” water



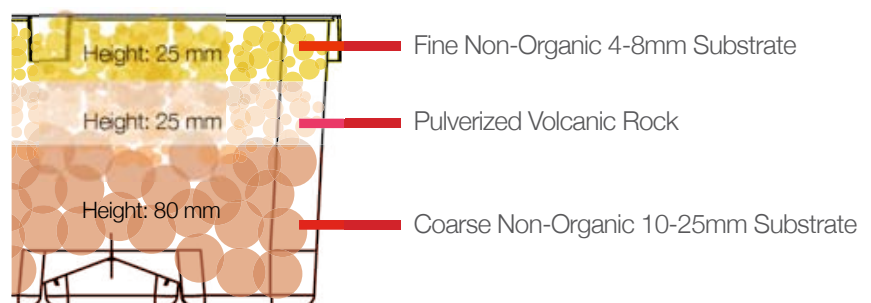
**Prolonged Plant Life**  
**Water Conservation**

↑↑↑  
Capillary Action  
Water Absorption

### HI-GREEN PLANTER SYSTEM

CHARACTERISTICS:

- Robust Cell Design - 500 x 115 x 170 mm dimension
- Excellent Water Retention - able to hold 2.3 litres of water per unit
- Minimizes Water Leakage
- Environmental-friendly - uses UV stabilized recyclable polypropylene material polypropylene material strengthens load bearing



### STORAGE TRAY - PLANTER W

#### SPECIFICATIONS

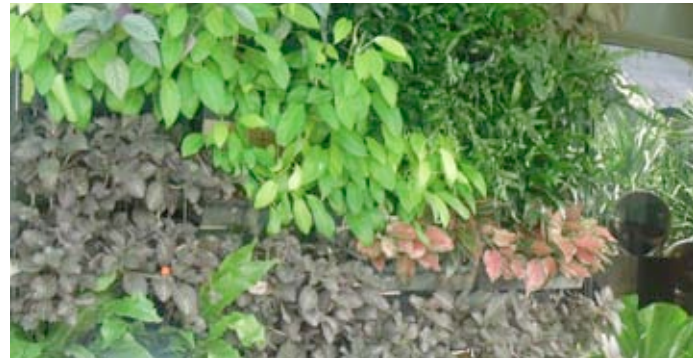


<b>Material:</b>	High density polypropylene resin with anti-UV additive
<b>Dimension:</b>	500mm (L) x 115mm (W) x 170mm (H)
<b>Depth:</b>	32mm
<b>Weight:</b>	Approx. 0.7 kg
<b>No. of cells:</b>	2 x 10
<b>Water Storage Capacity:</b>	Approx. 2.3 litres per unit
<b>Saturated weight:</b>	6 – 8 kg per unit (with maximum water storage, saturated growth media and plant or shrub)
<b>Colour:</b>	Green

#### INSTALLATION METHOD (STORAGE TRAY - PLANTER W)



Screws will be used to attach planters into the galvanised steel frame



### HI-GREEN PANEL SYSTEM



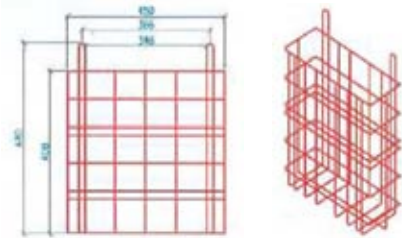
#### CHARACTERISTICS:

- Easy Fabrication - 480(L) x 4800(W) x 110(D) mm dimension
- Stable
- Easy Installation
- Easy Replacement with Modular System
- Lush and Natural



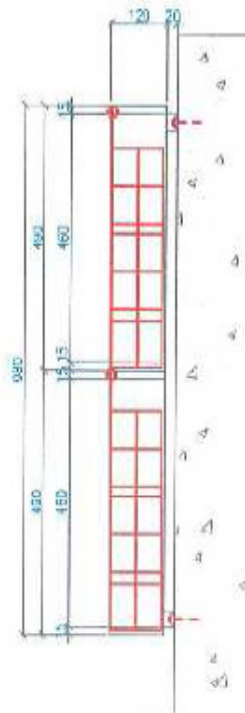
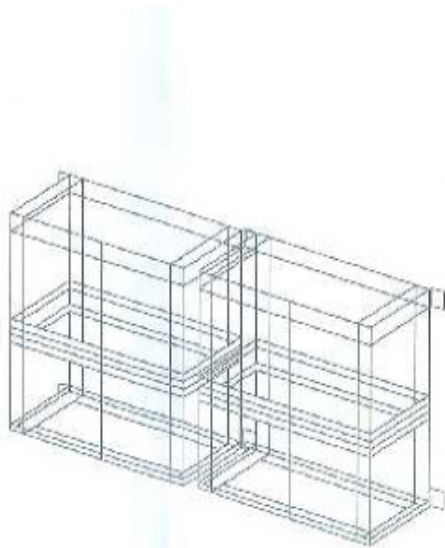
## VERTICAL WALL SYSTEMS

### SPECIFICATIONS



<b>Material:</b>	Stainless Steel
<b>Dimension:</b>	480mm (L) x 480mm (W) x 110mm (Depth)
<b>Depth:</b>	32mm
<b>Designed Weight:</b>	25 – 30 kg per unit (with maximum water storage, saturated growth media and plant or shrub)

### INSTALLATION METHOD (PLANTING TRAY - PANEL W)



## HI-GREEN ECO-WALL SYSTEM (EXTERNAL/INTERNAL)



Water is recycled through the system making the Eco Wall a self-sustaining product to enhance the appearance and atmosphere of outdoor, indoor or covered areas.

The system consists of Prince's Planter W mounted on a free standing frame. A fibreglass planter box with specially selected hydroplants add to the visual effect and allows water to be collected and recycled back through the system.

Plants are grown in Prince's Hi-Green Lite Composite (a treated non-organic soil-less volcanic ejecta substrate).



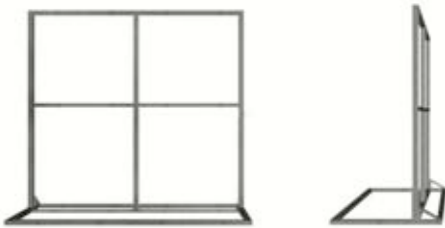
## VERTICAL WALL SYSTEMS



### CHARACTERISTICS:

- A premix of natural minerals and micro nutrients which are essential for tropical plant growth
- Fertilised as required to ensure plant health
- No water contamination (alternative organic and soils systems can cause root rot)
- Highly water and nutrient absorbent

### SPECIFICATIONS



#### ECO-WALL FRAME\*

<b>Material:</b>	Stainless Steel
<b>Dimension:</b>	2000mm (L) x 2505mm (H)
<b>Depth:</b>	950mm (W)

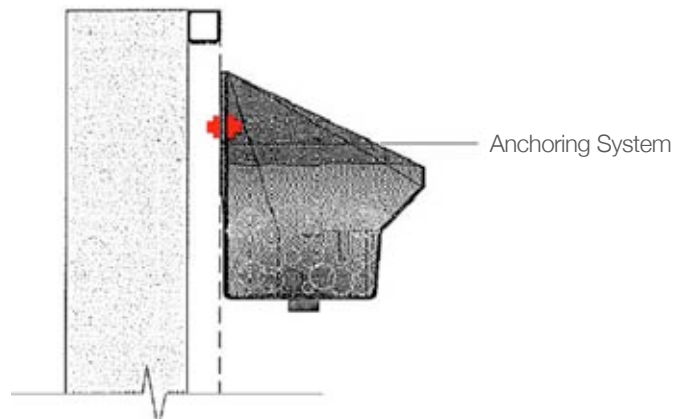
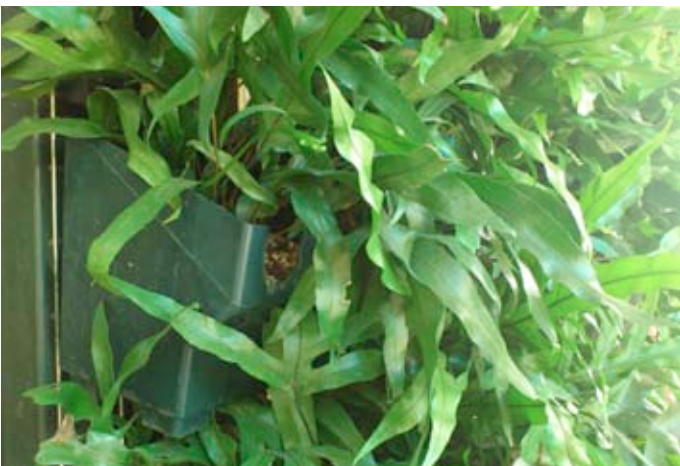


#### FIBERGLASS BASE PLANTER (Reinforced Polyester)\*

<b>Material:</b>	Fiberglass
<b>Dimension:</b>	2360mm (L) x 1000mm (W)
<b>Depth:</b>	320mm (H)

\* Can be customised

### INSTALLATION METHOD (STORAGE TRAY - PLANTER W)

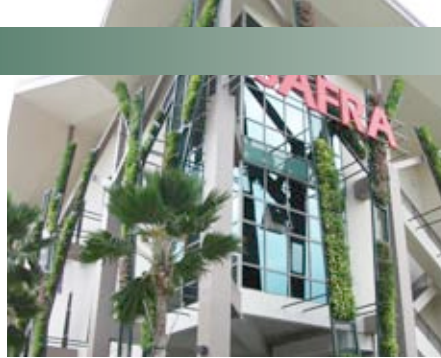




## VERTICAL WALL SYSTEMS

### PROJECT REFERENCES

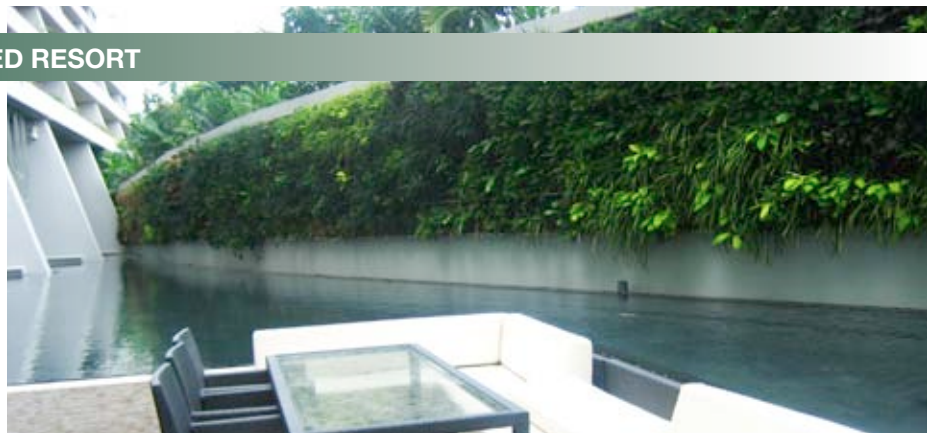
#### SAFRA CLUBHOUSE JURONG



#### VERTICAL WALL IN HORTPARK



#### MARINA BAY SANDS - INTEGRATED RESORT



#### SKYPARK AT MARINA BAY SANDS - INTEGRATED RESORT



# HI-GREEN

## VERTICAL WALL SYSTEMS

### PROJECT REFERENCES

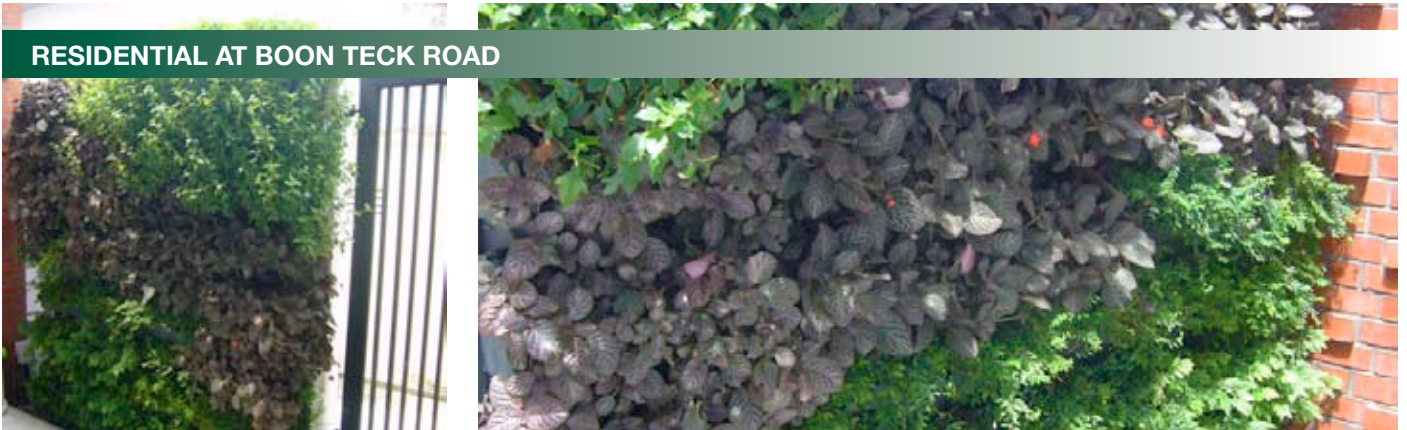
#### THE CLIFT



#### WELLINGTON PRIMARY SCHOOL



#### RESIDENTIAL AT BOON TECK ROAD



#### MSCP AT EDGEFIELD PLAINS

