



**HI-GREEN**

VERTICAL WALL SYSTEMS

The Pioneer in **Sustainable & Ultra-low Maintenance** Systems



# HI-GREEN

With the same principles in all Hi-Green products, Hi-Green Vertical Wall System utilizes a specialized “live” hydroculture technique with its unique high water and nutrient absorbent planting medium, Hi-Green Lite Composite, to prolong plant life sustainability. It is also accompanied by a water reservoir feature, resulting in less watering and ultra-low maintenance for the user.

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

## ADVANTAGES

- Customized and tested system for tropical climate in our nurseries
- Intense QC in our nurseries before installation
- Excellent accommodation for tough and strong plantation
- Reduces plant damage during stormy weather
- Minimizes regular watering (sustainable for > 1 week without rain)
- Modular system ensures fast assembly and installation on site
- Customization of design into new vertical wall garden

Having a green wall on a building entails many benefits for the users and the environment.

### ENVIRONMENTAL BENEFITS

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

### ECONOMIC BENEFITS

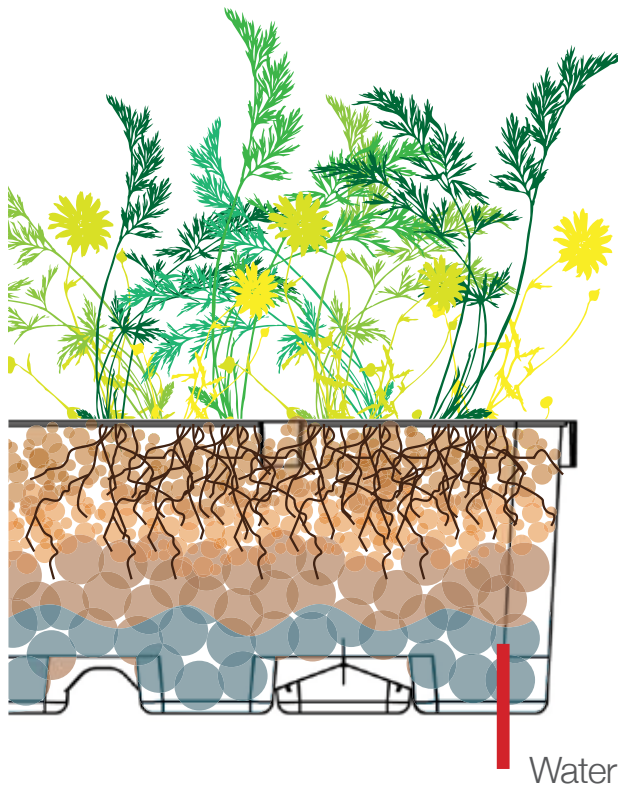
- Reduces energy usage
- Increases property value
- Improves company's image

### SOCIAL BENEFITS

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

### AESTHETIC BENEFITS

- Beautifies the bare external walls
- Adds a natural dimension to a building
- Aesthetically appealing



**Prolonged Plant Life**

**Water Conservation**



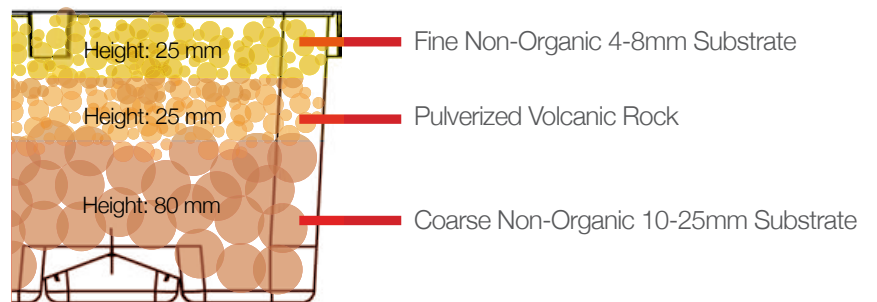
Capillary Action

Water Absorption

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

### CHARACTERISTICS:

- A premix multitude of natural minerals and micro nutrients which are essential to and recommended for tropical plant growth
- Treated with prescribed chemical fertilizers
- Being non-organic and soil-less, it does not cause water contamination, unlike organic and soil systems which cause root rot in plants
- Highly water and nutrient absorbent
- Capillary action ensures that plants receive “non-contaminated” water



## STORAGE TRAY - PLANTER W



### TRAY DESIGN

- **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

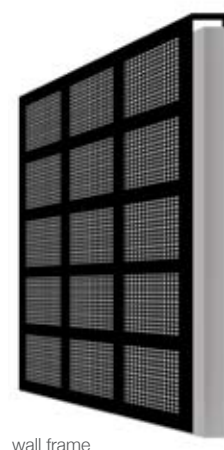
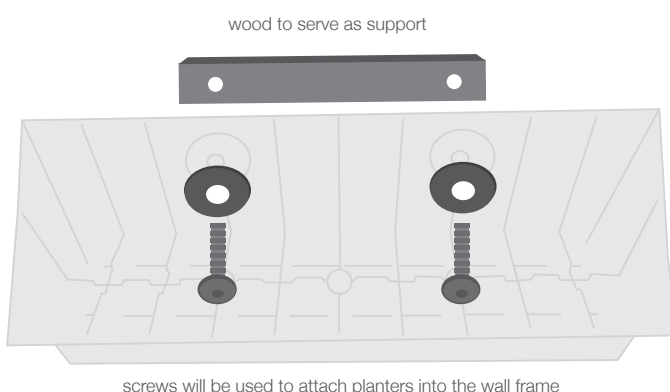
## SPECIFICATIONS OF PLANTER W

<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

## COMPARATIVE ANALYSIS

	HI-GREEN VERTICAL WALL SYSTEM	OTHER'S SYSTEM
DIMENSIONS (MM)	500 (L) X 115 (W) X 170 (H) mm	500 (L) X 500 (W) X 250 (H) mm
SATURATED WEIGHT	0.7 kg per unit	3.2 kg per module
WATER STORAGE CAPACITY	13.8-18.4 ltr/m <sup>2</sup>	N. A.
WET WEIGHT	6-8 kg per unit	50-60 kg per module
COLOR	Green	Black
PREPARATION	Offsite	Offsite
INSTALLATION	Easy	Difficult
REPLACEMENT	Easy	Difficult
REPLANTING	Easy	Difficult
MAINTENANCE	Low	High
WATER CONSUMPTION	Low	High
PLANTING MEDIA	Special pre-mixed treated non-organic, soil-less volcanic ejecta,	Non-organic substrate

## INSTALLATION METHOD FOR HI-GREEN VERTICAL WALL PLANTER SYSTEM



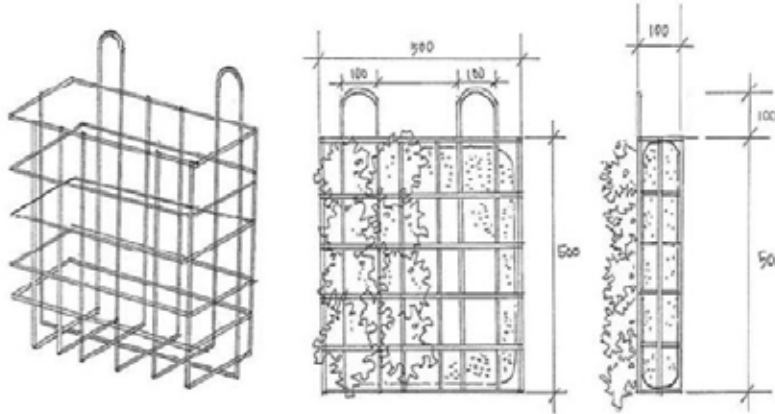
## PLANTING TRAY - PANEL W



### CHARACTERISTICS

- **Easy Fabrication** - 500(L) x 500(W) x 100(D) mm dimension
- **Stable**
- **Customized Size**
- **Easy Installation**
- **Easy Replacement with Modular System**
- **Lush and Natural**

## SPECIFICATIONS OF PANEL W



**Material:**

**Dimension:**

**Water Storage Capacity:**

**Saturated weight:**

Stainless Steel

500mm (L) x 500mm (W) x 100mm (H)

Approx. 2.3 litres per unit

25 - 30 kg per unit

(with maximum water storage, saturated growth media and plant or shrub)

## INSTALLATION METHOD FOR HI-GREEN VERTICAL WALL PANEL SYSTEM

