

# Wallgarden Technical Information



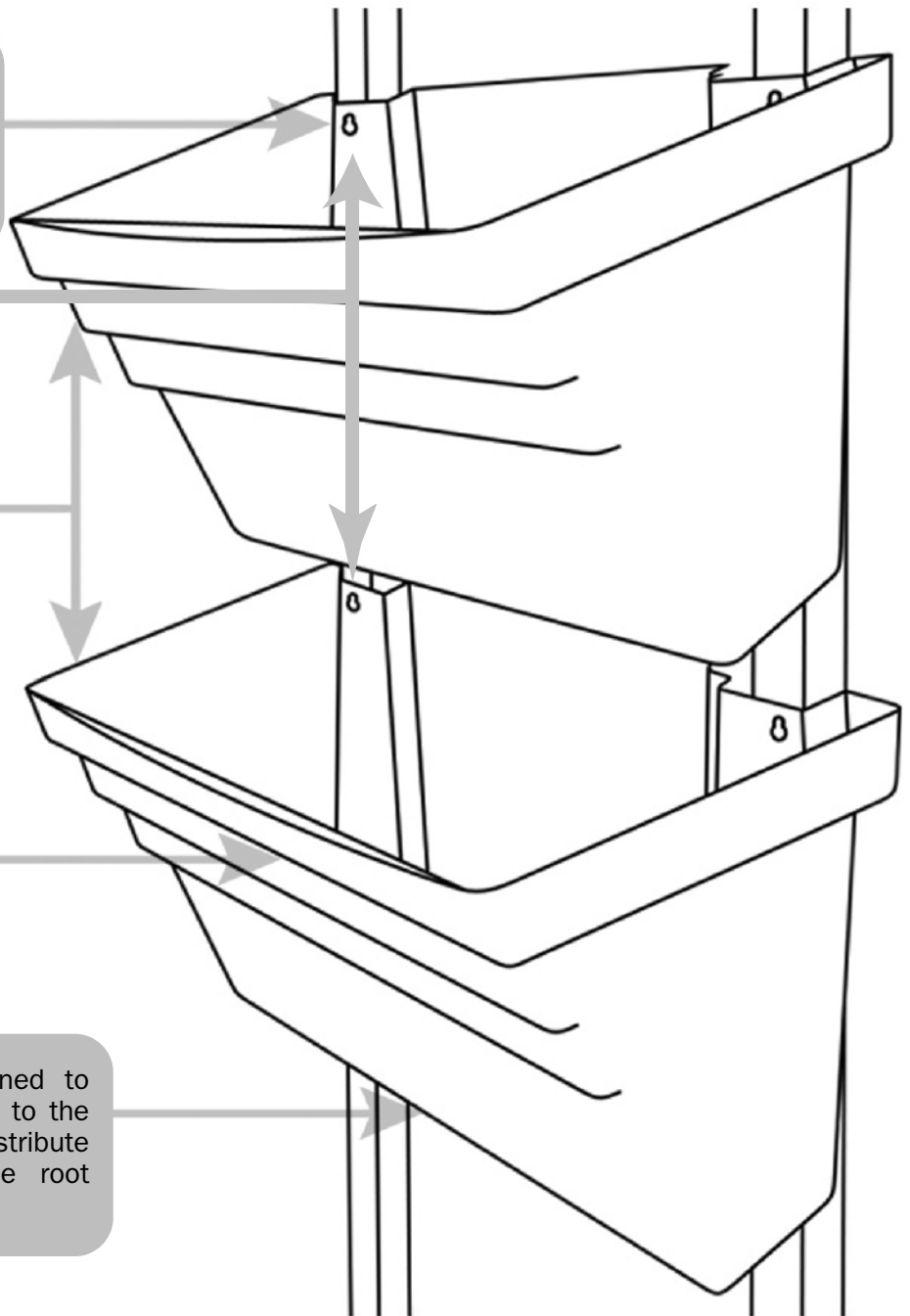
Modular keyhole mounting allows for independent removal of each module. Common, galvanized 8 gauge pan head wood screw recommended.

Allow 280mm between hanging holes.

Designed to grow plants naturally, upward, covering the above or below module, therefore giving a continuous wall of vegetation.

Thickness variation and ribbed front allows distortion without compromising structural integrity. Expected normal load per module is approx. 8-12kg. We have load tested to 75kg, without failure.

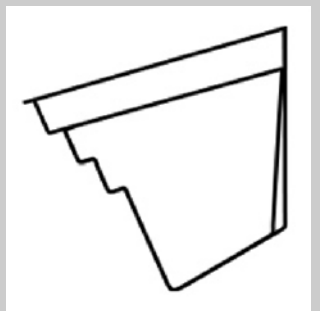
Drainage holes designed to give optimum aeration to the root mass and distribute even irrigation to the root mass below.



## Dimensions:

**600mm** Wide x **230mm** Tall x **200mm** Deep

Width calculated to fit into uniform building increments and maximizing transport parameters. Depth calculated to allow a further 100mm plant growth, giving 300mm depth approx., to minimize space. Height calculated to give combined maximum volume for growth material and with minimum 20mm spacing between modules plant growth hides the next module.



Wallgarden is injection molded from recycled polypropylene in Australia. This material is the most inert and chemically resistant of commonly available plastic, will not react with common plant growing nutrients and is BPA free.

For Ultraviolet resistance, added to the Polypropylene molding compound is 0.5% Hindered Aimene Light Stabilizer. Wallgarden modules are offered in black only, as carbon black is used to achieve this colour, it has further very high UV resistance qualities. The combination of these two additives will give a long life before any failure due to ultra violet degradation. All mean life calculations are derived from accelerated time testing and relevant to the application as to exposure to the sun. I, Stephen Collis, the inventor of Wallgarden, with 40 years experience in the plastics industry, offer a 10 year warranty before degradation leading to structural failure under intended use.

## **Polypropylene Safety Data Information:** (Provided by Basell Pty Ltd)

### **Introduction**

This Technical Bulletin outlines the precautions which should be taken in the handling and processing of Montell Polypropylene (PP). Except where otherwise stated in this bulletin the term PP shall be understood to include natural or pigmented propylene homopolymers and copolymers which may contain traces of process residues and usually contain minor amounts of materials such as antioxidants and UV stabilizers. The general comments made in this note will also apply to master batches containing large amounts of additives. Propylene polymers have been safely used in large quantities and in a large variety of applications since the early 1960s, a situation reflected in its wide range of regulatory approvals.

### **Potential Hazards**

#### **Toxicity**

Polypropylene is chemically unreactive and is generally regarded as being biologically inert.

#### **Inhalation**

*Fume Evolution:* There is no release of any noxious fumes from PP at ambient temperature, but at temperatures above 230 degrees Celsius fumes can be evolved.

*Dust:* Dust generated in handling granular PP presents no special health hazard, but atmospheric dust levels should nevertheless be minimized and the National Health & Medical Research Council's Hygienic (US) Standard of 10mg per cubic meter for nuisance dust observed.

#### **Ingestion**

Although PP is inert and can be regarded as harmless, certain compounds and master batches do contain additives which could be harmful, and ingestion should be avoided.