

# SOCS

## SULO Organics Collection System

### Design

- **ADVANTAGES FOR THE USER**
  - Generates high temperatures and PH levels to reduce unpleasant odours
  - Easy handling and familiarity through use of standard 240L MGB, other sizes available on request
  - Smooth internal surfaces assist emptying during collection process
  - Hinged base plate allows for easy cleaning
  - Large capacity for collection of organic materials
  - Allows for the collection of smaller organic materials such as grass clippings and leaves
- **ADVANTAGES FOR THE COLLECTOR**
  - Cost savings through weight reduction during the collection and disposal process
  - Content weight can be reduced by up to 32%† over a two week period
  - Can be emptied with existing collection vehicles that utilise both comb lifters and grab arms
  - Components can be automatically inserted during the manufacturing process to minimise additional assembly requirements
  - Complete SOCS bins can be stacked for storage and transport
- **ADVANTAGES FOR THE MUNICIPALITY**
  - Easily customised to suit any colour requirements including the Australian Standard AS4123
  - Customised SOCS combinations are available with optional positioning of air vents
  - Oxygen flows freely throughout the container to begin the decomposition process and reduce the contents weight
  - Separate organics containers can contribute to low contamination rates
  - Materials collected are ideal feedstock for composting facilities
  - Assists in achieving waste diversion targets
  - Can be used together with SULO's Bio Boy for the collection of food organics

### Colours

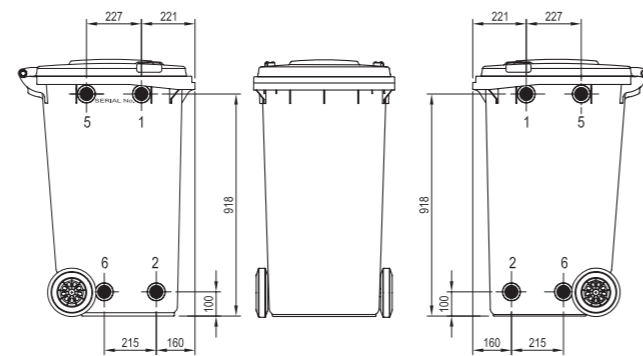
- **VENTS AND BASE PLATE**
  - Standard colours: nature green, dark green, dark grey and black
  - Special colours are available on request\*

For 240L MGB colour options see the individual 240L SULO brochure

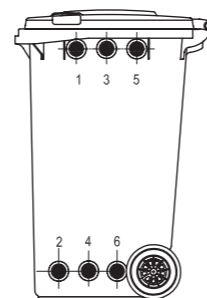
### Configurations

- **SOCS 8**
  - To achieve the most cost effective weight reduction SULO recommend utilising the SOCS 8 configuration, consisting of eight air vents and a base plate.

† Internal tests showed a 32% reduction in weight over a two week period using the SOCS 8 configuration.



- **VARIABLE CONFIGERATIONS**
  - The SOCS container can be easily customised to suit individual requirements including the position of the air vents, their colour, the base plate colour and the MGB colour and markings.
  - Six positions, on both sides of the MGB, are available for the location of air vents in a variety of configurations.



Note: If position 3 is selected then no serial number can be stamped on the MGB.

### Materials

- **VENTS AND BASE PLATE**
  - Injection moulded from specially designed HDPE
  - Resistant to decay, frost, heat and chemicals
  - Special UV stabilisation provides excellent ageing characteristics
  - 100% recyclable

For 240L MGB material specifications see the individual 240L SULO brochure, other sizes available on request



SULO MGB Australia Pty Ltd  
123 Wisemans Ferry Road  
Somersby NSW 2250  
AUSTRALIA  
Telephone: +61 (0) 2 - 4348 8188  
Facsimile: +61 (0) 2 - 4348 8128  
Internet: www.sulo.com.au  
E-mail: info@sulo.com.au

SULO - Queensland Office  
11 Argon Street  
Sumner Park QLD 4074  
AUSTRALIA  
Telephone: +61 (0) 7 - 3725 5000  
Facsimile: +61 (0) 7 - 3725 5099

SULO - Victorian Office  
1950 Hume Hwy  
Campbellfield VIC 3061  
AUSTRALIA  
Telephone: +61 (0) 3 - 9357 7320  
Facsimile: +61 (0) 3 - 9357 7340

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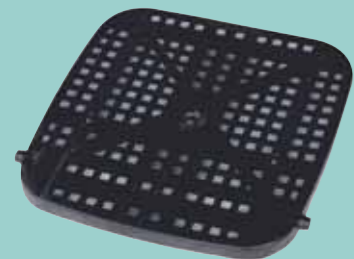
Reducing the contents of your MGB  
*using natural aeration*

# The Components



## Air Vents

Air vents strategically located in the side walls of the MGB promote the flow of oxygen throughout the container. The vents allow fresh air into the MGB whilst allowing the warm moist air out, leading to evaporation and weight loss.



## Base Plate

The base plate raises the organic material off the floor and allows oxygen to flow freely through the container and its contents. Excess liquid can also drip through the base plate and evaporate out of the lower air vents.



## Design

The SOCS container was designed to ensure maximum efficiencies not only during the collection process but also during production. The air vents are inserted during the manufacture of the MGB to minimize additional assembly requirements. In addition to this, the height and positioning of the base plate allows assembled SOCS bins to be stacked for storage and transport.

# The System

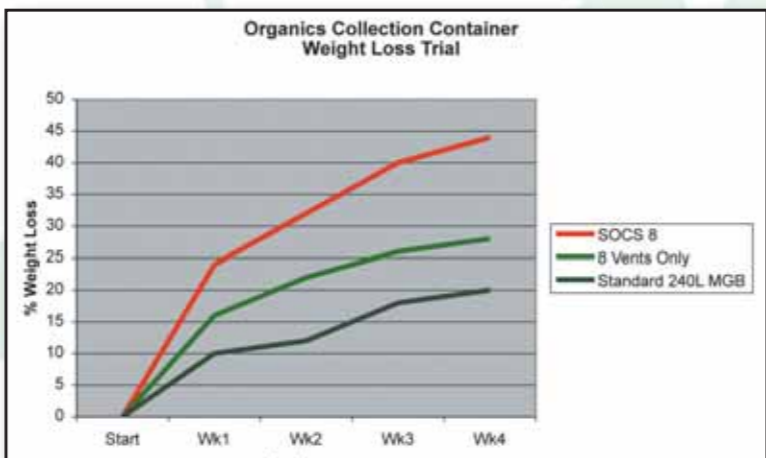
The SOCS container was designed for the collection of household organics in Australia and to assist in achieving waste diversion targets. With a dedicated organics collection container significant volumes of material can be diverted from the domestic waste stream. In addition to this, the SOCS container aims to further reduce the amount of organic material that requires transport and processing.

By maximizing the flow of oxygen and establishing an aerobic environment the SOCS container produces higher internal temperatures that lead to increased evaporation and weight loss. In addition to this, higher PH levels found within the container help to reduce unpleasant odours and combined with the higher temperatures create an adverse environment for insects.

The ventilation system strategically positioned in the walls of the MGB promotes the flow of oxygen throughout the container and its contents. Warm moist air is able to escape through the vents and assist in the evaporation process.

The base plate, located above the floor of the MGB, raises the organic material and allows oxygen to flow through the contents of the MGB. Excess water and leachate produced by the decomposing organics can also drip through the base plate and pool in the bottom of the MGB. Not only does this prevent the organic material from becoming saturated and clogged but also allows the liquid to evaporate out through the lower air vents.

Graph 1: Percentage Weight Loss

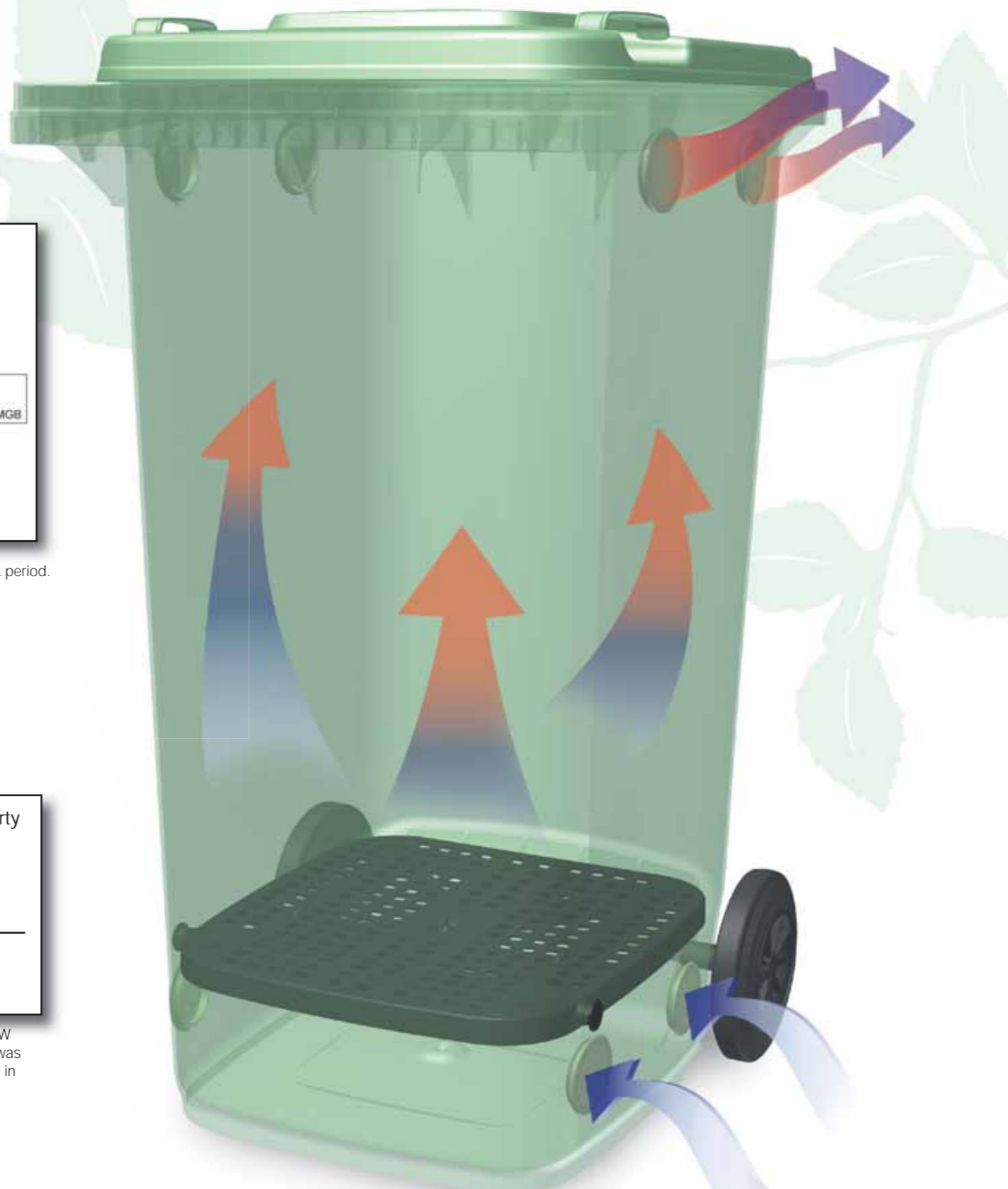


Note: The data in graph 1 is from an internal trial conducted over a four week period.

## Example 1: Annual Potential Savings

175Kg	of organic material collected per residential property
24%	average weight reduction achieved
42Kg	average saving per residential property
10,000	residential properties in the municipality
<b>420,000Kg less material to be transported and disposed</b>	

Note: Example 1 is a conservative estimate where 175Kg is based on the NSW DEC 2005/138 Assessment of garden organics collection systems and 24% was the actual weight reduction achieved in week one of the internal trial depicted in graph 1.



# The Benefits



## Three Bin System

The SOCS container is ideal for inclusion in waste minimisation systems aimed at improving diversion rates, for instance a three bin system. The container is designed to recover valuable organic materials from the domestic waste stream.



## Reduced Contamination

A dedicated organics container can help to minimise contamination when incorporated in an overall collection system. The separate collection of organic material can lead to a consistent supply of high quality feedstock for organic processing facilities.



## User Friendly

The SOCS container is easily manoeuvred around residential properties and the hinged base plate allows for easy cleaning by residents. The air vents and base plate have also been designed to ensure minimal snagging of organic material during the emptying process.