



FOUR-WHEELED MOBILE GARBAGE BIN SPECIFICATIONS

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1. Purpose

These specifications are designed to provide manufacturers with a guide for manufacturing 4- wheeled high density Polyethylene (HDPE) mobile garbage bins (MGBs).

These specifications is in accordance with the AS 4123. Companies are welcomed to provide additional information in order to maximise the efficiency of the design and manufacturing processes of the 4- wheeled MGBs.

This specification document is a benchmark for buyers and suppliers within the Australian recycling industry. ACOR welcomes feedback on all specifications at any time to ensure they reflect the current industry best practice. Individual buyers and sellers can use it as a workbook or a reference for trading and negotiation. It is not compulsory for buyers and sellers to comply with the standards. However, buyers and sellers are strongly encouraged to work together and reach an agreement regarding terms and conditions.

2. Components

Item	Number	Material
Body	1	HDPE (1) and post consumer recycle HDPE
Lid	1 or 2	HDPE (2) and post consumer recycle HDPE
Lid aperture	1 or 2	Rubber rosette
AXLE	2	Steel
Brake	4	Steel
Lock	1 or 2	Steel
Wheel	4	HDPE or rubber

HDPE (1):

- HDPE with a typical density of 0.910- 0.970g/ cm³
- Typical melt flow index (MFI) 4g/ 10 min @ 190°C/ 2.16kg
- Stabilised against UV light
- Auto ignition temperature approximately 350/ ASTM D 1929

HDPE (2):

- HDPE with a typical density of 0.910- 0.970g/ cm³
- MFI 7G/ 10min @ (190 °C/ 2.16kg)
- Stabilised against UV light
- Auto ignition temperature approximately 350/ ASTM D 1929

Steel: approximately 12µm zinc alloy coat

3. Performance Requirements

- Components should be;
 - Resistant to frost, heat and chemical decay,
 - Stable against UV light,
 - Resistant to corrosion, e.g. steel axle and;
 - Withstand exposure to high mechanical stress levels
- Safe and easy handling
- Lightweight
- Reduced noise with tight fitted axels

5. Appearance

- **Material components**
 - All moulded parts must not exhibit any foreign matter, cracks or bubbles.
- **Colours**
 - Weather resistant.
 - The colour of MGBs should comply with AU4123, as listed below:

Type of waste	Bin lid colour
General rubbish	Red/ Green
Recyclables	Yellow
Food organics	Lime/ Burgundy
Paper/ cardboard	Blue

6. Testing

All bins should undertake the following tests:

- Internal stress cracking test, i.e. individual parts must not show any cracks or deformations that may limit its functionality.
- A free fall drop test at room temperature from 3 meters while filled with 96 kilograms of material repeated 4 times to demonstrate high resistance to impact and shock.
- Ball impact test.
- Dimensional checks and;
- Any other tests that should be conducted in accordance with the AU4123 standard.

7. Imprints and Markings

All bins should contain the following information:

- Name of the manufacturer,
- Year of the manufacture,
- Material used,
- Nominal volume,
- Maximum permitted total weight in kilograms and;
- AS4123 marking standard.

8. Australian 4- wheeled Mobile Garbage Bin Standard Specifications

660L Container	
Nominal volume	660L
Net weight	43kg
Maximum load	265kg
Permitted total weight	310kg

1100L Flat Lid Container

Nominal volume	1100L
Net weight	approximately 65kg
Maximum load	440kg
Permitted total weight	510kg

1100L Domed Lid Container

Nominal volume	1100L
Net weight	approximately 65kg
Maximum load	440kg
Permitted total weight	510kg

1500L Container

Nominal volume	1500L
Net weight	approximately 112kg
Maximum load	56kg
Permitted total weight	750kg