

The 240L mobile garbage bin (MGB) is designed to store waste temporarily and to be lifted with comb lifting devices.

The bin is manufactured in accordance with the European Standards (EN840-1/5/6).

PARTS LIST

ITEM	NO.	MATERIAL
BODY	1	HDPE (1) and (POST) CONSUMER RECYCLE HDPE
LID	1	HDPE (2) and (POST) CONSUMER RECYCLE HDPE
AXLE	1	STEEL
WHEEL 200MM	2	HDPE/RUBBER
HINGE PIN	3	HDPE (2) and (POST) CONSUMER RECYCLE HDPE

MATERIALS

- HDPE (1)**
- High density polyethylene with a typical density of 0.910 – 0.970 grams per cm³
 - Typical Melt Flow Index (MFI) 4g/10 min @ (190°C/2.16kg)
 - Stabilised against ultraviolet light attack
 - Auto Ignition Temperature (c) approx. 350/ASTM D1929
 - Food grade (optional), suitable for food contact applications and conforms to US Food and Drug Administration requirements of the CFR 21 177.1520, paragraph c, item 3.1
- HDPE (2)**
- High density polyethylene with a typical density of 0.910 – 0.970 grams per cm³
 - Typical Melt Flow Index (MFI) 7g/10 min @ (190°C/2.16kg)
 - Stabilised against ultraviolet light attack
 - Auto Ignition Temperature (c) approx. 350/ASTM D1929
 - Food grade (optional), suitable for food contact applications and conforms to US Food and Drug Administration requirements of the CFR 21 177.1520, paragraph c, item 3.1
- POST CONSUMER RECYCLED HDPE**
- Recycled HDPE sourced from post consumer waste
Or material from rejects
- STEEL**
- Solid steel with approx. 12µm zinc alloy coat
- RUBBER**
- Rubber Injection Moulded Shore A 65 approx.

DESIGN REQUIREMENTS

CONTAINER BODY

- The body is injection moulded in one piece and therefore watertight. The main parts of the body are: the lifting rim, the handle, the main body and the wheelbase. The body has a smooth surface both inside and outside the bin. The interior will be free of crevices and recesses where garbage, green waste or recyclables might be trapped and make dumping difficult.
- The body is compatible with most commonly used 240L lids, hinge pins, axles and wheels.
- The bin fulfils the performance requirements and tests of EN840-5. A specific wall thickness is not recommended but the average wall thickness is around 3.8mm for the bin body.
- Lifting Rim
 - The lifting rim is manufactured according to the DIN comb receiver standard and is reinforced with supporting ribs. The design ensures that the bin can automatically and safely be locked into the lifting device during lifting operations.
 - A chip nest is located underneath the left side of the lifting rim in accordance with RAL 951/1.

- Water Edge
 - The top frame of the bin body has a water edge which, when the lid is closed, prevents rain water from entering the inside of the bin. It is designed in such a way that condensation from the outside is prohibited from entering the bin.
- Shape
 - The conical shape of body allows bins to be nested for transport up to 14 bodies high. The distance between each bin can store 2 wheels and an axle.
 - Stacking ribs, nesting points and a wider taper around the top rim allow the bins to be easily unstacked after transportation without damaging the water edge.
- Handle
 - The ergonomic handle has a diameter of 30mm and leaves enough space between the bin body to allow the bin to be handled with gloves.
 - The handle is connected to the body via 4 support ribs. The two middle ribs act as a noise protection stopper for the lid so that the lid is not able to hit the rear of the bin.
- Wheelbase
 - The injection point is balanced in the centre of the base to ensure an even flow along each section of the body, which prevents stress build up. The base is convex in shape, which helps to absorb any impact from falling rubbish. The rib below the base ensures the bin stands securely during strong winds and also absorbs shock during the bin being put back on the ground via lifting equipment.
 - Moulded yokes and ribs in the wheelbase accommodate the axle and ensure a proper and stable fit.
 - The axle holes are equipped with dimples to reduce the slack of the axle and therefore to reduce the noise generated while wheeling the bin.
 - The distance from the ground to the axle centre is 100mm to accommodate wheels with a diameter of 200mm. The axle centre can be raised to 125mm to accommodate optional 250mm wheels.
- Other features
 - The body contains an insert showing compliance with the EN840 and weight allowance.
 - Customer specific hot stamps can be applied to the front, left or right wall of the body with a maximum printing area of 160mm x 130mm, approximately 155mm below the top edge. An 8 digit alpha numeric (2 alpha, 6 numeric) serial number can also be printed on the left side of the bin body.
 - A blowhole can be incorporated into the lifting rim as an option.

LID

- The lid hinges to the body of the bin with two hinge pins, this allows easy opening and closing of the MGB.
- Moulded handle grips allow the user to open the lid ergonomically, even with one hand.
- The lid is compatible with most commonly used 240L bins.
- Each lid can nest inside each other to ensure stable stacking during transportation, therefore minimising required storage capacity.
- Hinges
 - The hinge box provides sufficient strength to ensure internal ribbing in the lid is minimised, reducing the possibility of rubbish getting trapped.
 - Three hinge pins (2 required, 1 spare) are moulded directly to the lid to ensure availability of the pin in every situation.
- Shape
 - The injection point sits flat ensuring it does not interfere with stickers applied to either the inside or outside of the lid.
 - The internal ribs on the lid are used as condensation ribs; water generated from the rubbish can condense underneath the lid and will drop back into the bin.
- Other features
 - Three inserts on the top of the lid allow the customer to customise the lid to their requirements.
 - Additional hot stamping can also be offered in two positions (optional, at extra cost).

AXLE

- The axle is manufactured from solid steel and coated with a zinc alloy to ensure a long life.
- The axle is capable of supporting a fully loaded bin on a level, sloped or stepped surface.

WHEELS

- The wheel diameter is 200 mm, consisting of the hub, the rubber type and the retaining clip assembly.
- The rubber ensures nearly noise-free movement of the bin and it is also weather proofed.
- The wheel clips into the axle groove via a spring-loaded pin.
- The wheel is also commonly used on most MGB's and is therefore interchangeable.
- Each wheel can withstand a static load of 100kg.

DIMENSIONS

HEIGHT	1100	max	mm
WIDTH	580	± 5	mm
DEPTH(incl. handle)	740	max	mm
WHEELS DIAMETER	200	± 5	mm
LOAD CAPACITY	96		kg
WEIGHT	13.5		kg approximately
VOLUME	240l	+15, -5	(volume is measured with the lid closed)

Other dimensions are specified in EN840-1.

MANUFACTURING PROCESS

- The lid, the hinge pins, the wheel hubs and the body are moulded from an ultra-violet (UV) stabilised high-density polyethylene (HDPE), specially developed for the injection moulding of heavy duty outdoor products.
- A percentage of post consumer and post manufacturing material is incorporated into the material mix depending on availability of recycling material and customer specifications.

APPEARANCE AND WORKMANSHIP

- The plastic material shall be specified by the material supplier for specific use in bin products.
- All moulded parts must not exhibit any foreign matters, cracks, or bubbles. Flash lines must be to minimum with sound weld lines.

TESTING

All bins to withstand the following tests:

- Internal stress cracking test (single parts must not show any cracks or deformations which could limit its functional stability)
- Drop test at room temperature (To ascertain the resistance to impact or shock, a bin filled with 96 kg must withstand a free fall from three (3) metres height, four (4) times)
- Ball impact test (the ability of sensitive points to resist impact is tested) in accordance with EN840-5
- Dimensional checks
- These and other tests are conducted in accordance with EN840-5.

COLOUR

- The colour used shall be specifically prepared as colourfast so that the colour shall not alter appreciably in normal use.
- Colours are supplied in accordance with the Sulo colour chart and are also weather resistant.

All designs, specification and components are subject to change at the manufacturer's sole discretion at any time without notice. Data published herein is informational in nature and shall not be construed to warrant suitability of the unit for any particular purpose as performance may vary with conditions encountered. The warranty applicable is our standard written warranty for this product.