

INSTRUCTION MANUAL

CONTAINERS FOR WASTE AND RECYCLABLE MATERIAL WITH CAPACITIES (LITRES) 40, 50, 60, 80, 90, 110, 120, 140, 180, 240, 340, 360, 370, 400, 500, 660, 770, 1100

1. PURPOSE

This operating manual describes how to handle the standard waste and recyclable material containers for the types 40L, 50L, 60L, 80L, 90L, 110L, 120L, 140L, 240L, 340L, 360L, 370L, 400L, 500L, 660L, 770L, 1100L of the ESE GmbH.

2. REGULATIONS AND DIRECTIVES

- EN 840-1 “Mobile waste containers - Containers with 2 wheels with a capacity of up to 400 l for comb lifting devices - Dimensions and design”
- EN 840-2 “Mobile waste containers - Containers with 4 wheels with a capacity of up to 1300 l With flat lid(s), for trunnion and/or comb lifting devices - Dimensions and design”
- EN 840-3 “Mobile waste containers - Containers with 4 wheels with a capacity of up to 1300 l with dome lid(s), for trunnion and/or comb lifting devices - Dimensions and design”
- EN 840-5 “Mobile waste containers - Performance requirements and test methods”
- EN 840-6 “Mobile waste containers - Safety and health requirements”
- EN 15132 “Container shelters”
- EN 1501 “Refuse collection vehicles and their associated lifting devices”
- 89/655/EEC User guideline, accident and safety regulations
- 90/268/EEC Directive on lifting and carrying that is harmful to health
- RAL-GZ 951/Waste and recyclable material containers made of plastic-Quality assurance

3. APPROPRIATE USE

3.1 COLLECTION OF RECYCLABLE MATERIALS AND WASTE

The containers are intended for the collection of recyclable materials and waste. No hot ash, dead animals or other waste materials may be placed in them, for which storage and transport is legally regulated, such as waste varnish or paint, medication, etc. (refer to GGVS, GGVE, GGV See for Germany; ADR regulations for Europe).

Usually the colour of the lid indicates a specific kind of waste material to be collected in it.

Particular grouping of correct colours are indicated in the RAL-GZ 951/1.

3.2 MAXIMUM PERMISSIBLE TOTAL WEIGHT

The maximum permissible total weight of the filled container may not be exceeded (refer to the label on the body). According to the EN 840 the maximum permissible total weight is calculated from the sum of: Thickness 0.4 [kg/dm³] x nominal capacity plus weight of container.

This is usually not the case when filling it with regular household waste. However, it is possible to exceed the maximum permissible total weight if the container is filled completely with construction waste, food waste or similar materials with a high relative density.

3.3 FILLING, EMPTYING AND BULK

Due to overflowing contents and their gases, vapour and dust particles, which may be harmful to health, as well as possible malfunctions during the filling process, the lid is NOT to be opened before emptying with the lifting device. When filling, only open the lid using the front lid handle or the handle bar.

The lid, particularly the sliding lid, is not to be operated from the side or the back. The sliding lid may also not be opened from the side.

After placing something in it, the lid is to be closed again (protection against rainwater, insects, small animals).

3.4 LIFTING DEVICES

The container is not suitable to be emptied manually. It is equipped with a comb lifting system in accordance with EN 840 Form A and approved for filling with a comb lifting device in accordance with EN 1501-5. In addition, 4 wheel containers can be equipped with lifting trunnions in accordance with EN 840 and used with a lifting device in accordance with EN 1501-5.

When using lifting devices, care must be taken to ensure that the full holding area of each container is supported in its full width by comb teeth of the trunnion holder.

Moreover, the upper, front exterior holder on the container must be covered in full width and coverage by the locking bar of the vehicle lifter during the entire emptying cycle. The dimensions of the vehicle lifting mechanism must meet the recommendations for manufacturers of these devices according to EN 840 and the EN 1501 series of standards. This must be checked regularly and readjusted in the case of discrepancies.

According to what is established in RAL-GZ 951/1 the containers are designed and tested for a maximum rotation angle for the comb lifting of 25°. The EN 1501-5 standard for filling also recommends this maximum rotation angle for the filling. It should also be noted that this rotation angle shall not be exceeded, for example with prohibited filling speeds or acceleration, or in correct container retention of the emptying position of the lifting device.

Containers that are damaged on the holder may not be emptied.

When the container is hung onto a lifting device, the lid must be lying on the main body; this means that the lid may not be open in any way due to overloading or any other reason. Otherwise the lid could be damaged by parts of the lifting device.

3.5. RECOMMENDATIONS FOR ORGANIC WASTE BINS

In both the summer and winter it is advisable to cover wet organic waste, for example using newspaper. By means of the binding of moisture in paper, frost is reduced in the winter and in the summer the fermentation process is hindered, meaning that the substances are not so quick to give off unpleasant smells and they also attract fewer insects.

ESE recommends that the organic waste containers are used with ventilation features and an intermediate base for the reduction of weight, for example with automatic fluid removal.

In general, the following guidelines apply:

- The organic waste bins should be positioned, where possible, in a shady place. If placed in direct sunlight, the containers can reach temperatures of up to 60° and synthetic materials are therefore more flexible.
- The lid should always be closed again immediately after filling.
- Cover wet organic waste with newspaper.
- Do not fill with liquids.
- If possible, fill with garden and cooking waste in layers.
- Wet grass cuttings should not be poured in, because they quickly clump together.
- The bin should be cleaned from time to time, only using water.
- Pay attention to the permissible total weight for the containers (embossed on the front of the container edge) Overfilling will result in risk of injury during transportation and spillage of waste in the refuse vehicle!

3.6. LOCATION AND MOVING

- The container may only be gripped on the sliding handles or the handlebar and rolled to transport it. The container is not intended to be carried.
- No objects may be stored on top of the container or lid.
- Snow and ice loads must be removed before using the container.
- The container must be placed on a flat ground.
- Due to possible static charging in the case of plastic containers and the possibility of sparks in the case of steel containers, the use of the container in explosion hazard areas is not permissible.
- The containers fit in waste bin shells according to EN 15132.
- Due to overflowing contents and their gases, vapour and dust particles which may be harmful to health under certain conditions, the container must be transported with a closed lid.

4. CLEANING

The container is also easy to clean inside, because of the rounded corners. It should be flushed with water from time to time. When disposing of the waste water, regulations should be observed. No aggressive cleaning agents or solvents should be used!

5. SAFETY INSTRUCTIONS

- The area where the container stands and the area in front of the container should be flat and solid!
- Do not place your head inside the container!
- Special recommendations for 4-wheel containers:
 - Do not lean over the container with the upper body and never place your head inside the container!
- This applies especially to containers with rounded lids, because these containers are fitted with lid support springs and the opened lid could close on its own!
 - This applies also when the lid is stopped half or fully open and also if the container has a childproof device according to EN 840-6!
- Do not sit or stand on the container!
- Do not overload - tip hazard (risk of injury, damage possible)!
- Only transport with closed lid!
- Caution when pulling up or pushing down a slope!
- Do not set up near fireplaces, grills or similar sources of heat!
- Do not set up on slopes!
- Activate the locking brake (centre stop) or, in the case of wheel brake models, the two wheel brakes after each movement of the container. If necessary, check whether the brake is activated, especially on slopes!

6. REPAIR

Only use original spare parts when repairing the container.

Only personnel authorised by ESE are permitted to carry out repairs. The repair of damaged holders is not permitted. Further details are explained in the installation guide.

7. RETROFITTING OF ADDITIONAL FEATURES

Should the container be subsequently altered - e.g. by additions such as a lock - only original ESE parts may be used. Installation may only be carried out by personnel authorised by ESE. Further details are explained in the installation guide.

8. INSPECTION

The container is to be inspected each time before it is emptied, or at least once a year to ensure that it is in safe condition. This includes the intactness of the holders, the condition of the wheels and their fastenings, the functionality of the brakes, the lid fastening / hinges and, in the case of round lid containers, the functionality of the childproof mechanism according to EN 840-6.

If the holder of the lifting mechanism is damaged then the container shall not be used, unless it is replaced.

Defective wheels/wheel fastenings/wheel brakes must be repaired and defects immediately remedied before the container can be used again.

Containers with round lids that are fitted with a childproof mechanism (safety lid/placement lid, two-button release or spring lock) are to be inspected in this respect. The safety lid is to be checked for easy opening; a two-button release or a spring lock must have a childproof opening of a minimum of 181 mm before the lid is completely closed by additional, manual activation.

If the available childproof mechanism on a container with round lid does not work properly, the container must be immediately withdrawn from circulation, repaired or replaced.

9. STORAGE AND TRANSPORT

Unloading containers from transport vehicles must be done carefully. The containers must not be permitted to fall to the ground, either singly or as a stack.

If the containers are to be placed in interim storage, the load on the running gear and stacking ridges must not be too extreme; long-term storage in a stack is not permissible.

The stacking ridges on the container are not designed for continuous long-term storage. Stacks with this maximum load may not be stored for more than 12 weeks without interruption. If a period of 3 months is exceeded, visible deterioration may occur, such as warping of the stacking ridges or the sides of the container. Nevertheless, functionality and performance characteristics are given for periods of up to 6 months stacked storage.

When stored outside, the open containers must be protected against rainwater or snow. Here, care must be taken to ensure that not only the uppermost container is closed e.g. by a lid, but that the running of water into the containers stacked beneath them is prevented with suitable measures. A container or stack filled with water exceeds the maximum permissible payload by far.

10. WHEELS

The containers come as standard

- fitted with wheels with a diameter of 200 mm.
 - Desired wheel diameters that differ from the standard (e.g. 160 mm on 4-wheel containers, or 250/300 mm on 2-wheel containers) are documented in the order confirmation and the delivery slip.
- fitted with wheels that have a slide bearing.
 - Other kinds of bearing (e.g. ball bearings in the case of 4-wheel containers) are documented in the order confirmation and delivery slip.
- fitted without steering lock in the case of 4 wheels. If steering locks are desired, this is documented in the order confirmation and delivery slip.

4-wheel containers come as standard with wheel-stop brakes (full lock); (2 wheel-stop wheels per container); 2-wheel containers have no brakes. Desired central braking systems are documented in the order confirmation and delivery slip.

The brake torque on the wheel-stop wheels is $\geq 22\text{Nm}$.

11. TRACTION

The maximal traction, initial force, is $\leq 300\text{N}$.

The maximum traction to keep the container in motion is

- For 2-wheel containers 60N
- For 4-wheel containers 285N

12. TECHNICAL SPECIFICATIONS

The technical specifications can be found in the data sheets provided by ESE.

All information is subject to technical changes.