

Mobile waste containers

Part 4. Containers with four wheels with a capacity from 750 l to 1700 l with flat lid(s), for wide trunnion or BG-and/or wide comb lifting devices — Dimensions and design

The European Standard EN 840-4 : 1997 has the status of a
British Standard

ICS 13.030.40

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee B/508, Waste management, to Subcommittee B/508/1, Waste containers and associated lifting devices on refuse collection vehicles, upon which the following bodies were represented:

- Association of Refuse Vehicles Manufacturers
- British Plastics Federation
- Container Handling Equipment Manufacturers
- Department of the Environment (Building Research Establishment)
- Environmental Services Association
- Institute of Wastes Management

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National foreword

This British Standard has been prepared by Subcommittee B/508/1 and is the English language version of EN 840-4 : 1997 *Mobile waste containers — Part 4: Containers with four wheels with a capacity from 750 l to 1700 l with flat lid(s), for trunnion or BG - and/or wide comb lifting devices — Dimensions and design*, published by the European Committee for Standardization (CEN).

EN 840-4 was published as a result of international discussion in which the UK took an active part.

Cross-references

Publication referred to	Corresponding British Standard
EN 840-1 : 1997	BE EN 840 <i>Mobile waste containers</i> Part 1 : 1997 <i>Containers with two wheels with a capacity from 80 l to 390 l for comb lifting devices — Dimensions and design</i>
EN 840-2 : 1997	Part 2 : 1997 <i>Containers with four wheels with a capacity from 500 l to 1200 l with flat lid(s), for trunnion and/or comb lifting devices — Dimensions and design</i>
EN 840-5 : 1997	Part 5 : 1997 <i>Performance requirements and test methods</i>
EN 840-6 : 1997	Part 6 : 1997 <i>Safety and health requirements</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

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Descriptors: Handling equipment, travelling containers, freight containers, collecting, wastes, definitions, dimensions, specifications, marking

English version

Mobile waste containers — Part 4: Containers with four wheels with a capacity from 750 l to 1700 l with flat lid(s), for wide trunnion or BG-and/or wide comb lifting device — Dimensions and design

Conteneurs roulants à déchets — Partie 4:
Conteneurs à 4 roues de capacités comprises entre
750 l et 1700 l à couvercle(s) plat(s), pour
lève-conteneurs par tourillon large ou
BG-basculeurs et/ou lève-conteneurs à peigne
large — Dimensions et conception

Fahrbare Abfallsammelbehälter — Teil 4: Behälter
mit 4 Rädern und einem Volumen von 750 l bis
1700 l mit Flachdeckel(n), für breite Schüttungen
für Zapfenaufnahme oder BS-Schüttungen und/oder
für breite Kammschüttungen — Maße und
Formgebung

This European Standard was approved by CEN on 1996-12-22. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 183, Waste management, the Secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1997, and conflicting national standards shall be withdrawn at the latest by July 1997.

This European Standard is one Part of the series of standards of EN 840 about 'Mobile waste containers' comprising the following Parts:

- Part 1: *Mobile waste containers — Part 1: Containers with two wheels with a capacity from 80 l to 390 l for comb lifting devices, dimensions and design*
- Part 2: *Mobile waste containers — Part 2: Containers with four wheels with a capacity from 500 l to 1200 l with flat lid(s), for trunnion and/or lifting devices, dimensions and design*
- Part 3: *Mobile waste containers — Part 3: Containers with four wheels with a capacity from 770 l to 1300 l with dome lid(s), for trunnion and/or comb lifting devices, dimensions and design*
- Part 4: *Mobile waste containers — Part 4: Containers with four wheels with a capacity from 750 l to 1700 l with flat lid(s), for wide trunnion or BG and/or wide comb lifting devices, dimensions and design*
- Part 5: *Mobile waste containers — Part 5: Performance requirements and test methods*
- Part 6: *Mobile waste containers — Part 6: Safety and health requirements*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This Part of EN 840 specifies dimensions and design requirements of mobile waste containers with four wheels, with flat lid(s) and capacity from 750 l to 1700 l to be used by wide trunnion or BG-lifting device and/or wide comb lifting device.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest editions of the publication referred to applies.

- EN 840-1 : 1997 *Mobile waste containers — Part 1: Containers with two wheels with a capacity from 80 l to 390 l for comb lifting devices, dimensions and design*
- EN 840-5 *Mobile waste containers — Part 5: Performance requirements and test methods*
- EN 840-6 *Mobile waste containers — Part 6: Safety and health requirements*
- prEN 1501-1 *Refuse collection vehicles and their associated lifting devices — General requirements and safety requirements — Part 1: Rear-end loaded refuse collection vehicle*

3 Definitions

Terms for components of mobile waste containers and lifting devices in three languages are given in annex A of EN 840-1 : 1997.

For the purposes of this European Standard, the following definitions apply:

3.1 mobile waste containers

An appropriate designed container fitted with wheels intended to store waste temporarily.

3.2 lifting device

A structure which picks-up, tilts and empties containers.

3.3 lifting device

A lifting device of which the picking-up system consists of a row of teeth and a locking system to retain the container during emptying.

3.4 trunnion lifting device

A lifting device of which the picking-up system consists of a pair of arms with automatic locking mechanism to fit the trunnion to retain the container during emptying.

3.5 BG lifting device

A lifting device of which the picking-up system consists of a pair of arms with adaptors that fit the BG receivers and locks them in order to retain the container during emptying (see figures 6 and 7).

3.6 volume

The total space inside the container when the lid is closed.

3.7 nominal volume

The volume given in table 1 without tolerances.

3.8 capacity

The volume given in table 1.

NOTE. The English term 'capacity' and the French term 'capacité' are translated in the German version by the term 'Nominales Volumen'.

3.9 nominal load

The load which is calculated as given in clause 6.

3.10 total permissible mass

The mass of the container plus the nominal load.

4 Volumes

The volume of the containers are 750 l, 1000 l, 1300 l, 1400 l, 1500 l, 1600 l and 1700 l. The tolerance on the nominal volume is $\pm 5\%$. For measuring methods of capacity see EN 840-5.

5 Dimensions and design

5.1 The design of the containers need not correspond to the drawings given in figure 1. The dimensions given in table 1 shall be respected. Recommendations for manufacturers of lifting devices are given in annex A (see also prEN 1501-1).

5.2 The container shall be constructed so that when it is unloaded or loaded with a nominal load (see clause 6), it fits on an approved compatible lifting device. It has to be automatically locked safely into the lifting device during the lifting operation. If the container is equipped with a comb receiver, it shall correspond to at least one of the proposals given in figure 2 (form A, B or C).

5.3 The lid(s) shall fit the body. It shall be made with at least two fixing points and have at least one means for opening.