



BSI Standards Publication

Mobile waste and recycling containers

Part 4: Containers with 4 wheels with a capacity up to 1 700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices — Dimensions and design

National foreword

This British Standard is the UK implementation of EN 840-4:2012. It supersedes BS EN 840-4:2004, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/508/1, Waste containers and associated lifting devices on refuse collection vehicles.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Mobile waste and recycling containers - Part 4: Containers with 4 wheels with a capacity up to 1 700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices - Dimensions and design

Conteneurs roulants à ordures ménagères et recyclables -
Partie 4: Conteneurs à 4 roues de capacité inférieure ou égale à 1 700 l à couvercle(s) plat(s), pour lève-conteneurs par tourillon large ou BG-basculateurs et/ou lève-conteneurs à peigne large - Dimensions et conception

Fahrbare Abfall- und Wertstoffbehälter - Teil 4: Behälter mit 4 Rädern und einem Nennvolumen bis 1700 l mit Flachdeckel(n), für breite Schüttungen mit Zapfenaufnahme oder BG-Schüttungen und/oder für breite Kammschüttungen - Maße und Formgebung

This European Standard was approved by CEN on 22 September 2012.

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Foreword

This document (EN 840-4:2012) 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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 840-4:2004.

Technical changes since the latest edition:

- The content was adapted to the current state of the art and revised editorially.
- Figure 3 has been deleted.
- Frontal receivers Form B and C have been deleted. Figure 2 has been changed accordingly.

This European Standard is one part of the series of standards of EN 840 with the main title *Mobile waste and recycling containers* comprising the following parts:

- *Part 1: Containers with 2 wheels with a capacity up to 400 l for comb lifting devices — Dimensions and design;*
- *Part 2: Containers with 4 wheels with a capacity up to 1 300 l with flat lid(s), for trunnion and/or comb lifting devices — Dimensions and design;*
- *Part 3: Containers with 4 wheels with a capacity up to 1 300 l with dome lid(s), for trunnion and/or comb lifting devices — Dimensions and design;*
- *Part 4: Containers with 4 wheels with a capacity up to 1 700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices — Dimensions and design (the present document);*
- *Part 5: Performance requirements and test methods;*
- *Part 6: Safety and health requirements.*

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies dimensions and design requirements of mobile waste and recycling containers with 4 wheels, with flat lid(s) and capacity up to 1 700 l to be used by wide trunnion or BG-lifting device and/or wide comb lifting device.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 840-5, *Mobile waste and recycling containers — Part 5: Performance requirements and test methods*

EN 840-6:2012, *Mobile waste and recycling containers — Part 6: Safety and health requirements*

EN 1501-1, *Refuse collection vehicles — General requirements and safety requirements — Part 1: Rear loaded refuse collection vehicles*

EN ISO 11469, *Plastics — Generic identification and marking of plastics products (ISO 11469)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE Terms for components of mobile waste and recycling containers and lifting devices in three languages are given in Annex A of EN 840-1:2012.

3.1

mobile waste and recycling container

appropriately designed container fitted with wheels intended to temporarily store waste

3.2

lifting device

structure which picks-up, tilts and empties containers

3.3

comb lifting device

lifting device in 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

lifting device in 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

lifting device in 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

Note 1 to entry: See Figures 5 and 6.

3.6

volume

total space inside the container when the lid is closed

3.7

nominal volume

capacity

volume stated by the manufacturer

Note 1 to entry: See Table 1 without tolerances.

Note 2 to entry: The English term "capacity" and the French term "capacité" are translated in the German version by the term "Nennvolumen".

3.8

nominal mass

mass, which is calculated as given in Clause 6

3.9

total permissible mass

mass of the container plus the nominal load

3.10

functional and safety dimensions

essential dimensions which ensure the functionality and interchangeability of the container with the compatible lifting device and which are necessary for the operator's safety and health

4 Volumes

This part of EN 840 identifies the two classes of containers:

- Class I - small size (nominal volume up to 1 050 l);
- Class II - large size (nominal volume between 1 050 l and 1 700 l).

Within the two above-mentioned classes of containers the following volumes are identified: 750 l, 1 000 l, 1 300 l, 1 400 l, 1 500 l, 1 600 l and 1 700 l. Nominal volumes different from those referenced can be used by agreement between user and manufacturer. The tolerance of the volumes shall be $\pm 5\%$ maximum measured according to EN 840-5.

5 Dimensions and design

5.1 The design of the containers do not need to correspond to the drawings given in Figure 1. The functional dimensions given in Table 1 shall be respected. Recommendations for manufacturers of lifting devices are given in Annex A (see also EN 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 shall 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 Figure 2.

5.3 The lid(s) shall cover the opening of the container completely. It shall be opened easily by itself during the emptying cycle. It/they shall be made with at least two fixing points and have at least one means of opening.