



SLOVENSKI STANDARD SIST EN 840-1:2004

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Mobile waste containers - Part 1: Containers with 2 wheels with a capacity up to 400 l for comb lifting devices, dimensions and design

Fahrbare Abfallsammelbehälter - Teil 1: Behälter mit 2 Rädern und einem Nennvolumen bis 400 l für Kammschüttungen - Maße und Formgebung

Conteneurs roulants a déchets - Partie 1: Conteneurs a 2 roues de capacité inférieure ou égale a 400 l pour leve-conteneurs a peigne - Dimensions et conception

Ta slovenski standard je istoveten z: EN 840-1:2004

ICS:

13.030.40	Naprave in oprema za odstranjevanje in obdelavo odpadkov	Installations and equipment for waste disposal and treatment
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English version

Mobile waste containers - Part 1: Containers with 2 wheels with
a capacity up to 400 l for comb lifting devices, dimensions and
design

Conteneurs roulants à déchets - Partie 1: Conteneurs à 2
roues de capacité jusqu'à 400 l pour lève-conteneurs à
peigne - Dimensions et conception

Fahrbare Abfallsammelbehälter - Teil 1: Behälter mit 2
Rädern und einem Nennvolumen bis 400 l für
Kammerschüttungen - Maße und Formgebung

This European Standard was approved by CEN on 10 December 2003.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 840-1:2004) 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 September 2004, and conflicting national standards shall be withdrawn at the latest by September 2004.

This document supersedes EN 840-1:1997.

This draft European Standard is one part of the series of standards of EN 840 about "Mobile waste 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 device – Dimensions and design.
- Part 5: Performance requirements and test methods.
- Part 6: Safety and health requirements.

Annexes A, B and C are informative.

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

1 Scope

This European Standard specifies dimensions and design requirements of mobile waste containers with 2 wheels, with capacity up to 400 l to be used by comb lifting devices.

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 edition of the publication referred to applies (including amendments).

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.*

EN 1501-1, *Refuse collection vehicles and their associated lifting devices – General requirements and safety requirements – Part 1: Rear-end loaded refuse collection vehicles.*

EN ISO 11469, *Plastics – Generic identification and marking of plastics products (ISO 11469:2000).*

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3 Terms and definitions

Terms for components of mobile waste containers and lifting devices in three languages are given in annex A.

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

3.1

mobile waste 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

volume

total space inside the container when the lid is closed (see Table 1)

3.5

nominal volume

volume stated by the manufacturer (see Table 1 without tolerances)

3.6

capacity

for the purpose of this standard nominal volume and capacity are deemed to be the same

NOTE The English term "capacity" and the French term "capacité" are translated in the German version by the term "Nennvolumen".

3.7

nominal load

load mass, which is calculated as given in clause 6

3.8

total permissible mass

mass of the container plus the nominal load

3.9

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 standard identifies the two classes of containers:

- Class I - small size (nominal volume up to 200 l);
- Class II - large size (nominal volume between 200 l and 400 l).

Within the two above-mentioned classes of containers the volumes shown in Table 1 are identified.

Table 1 — Volumes

Volume in l								
80^{+18}_{-5}	100^{+12}_{-5}	120^{+8}_{-6}	130 ± 7	140^{+6}_{-12}	210^{+15}_{-5}	240^{+15}_{-5}	340^{+40}_{-25}	390 ± 20

For methods of measuring capacity see EN 840-5.

The volumes shown in Table 1 correspond to mobile waste container's capacities at present used in Europe. Since there are some overlapping capacities due to the tolerances, client and manufacturer shall decide while ordering the capacity chosen.

Nominal volumes different from those referenced in Table 1 can be used by agreement between user and manufacturer. The tolerance of the volumes shall be $\pm 10\%$ maximum measured according to 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 functional dimensions given in Tables 2 and 3 shall be respected. Recommendations for manufacturers of lifting devices are given in annex B (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. The frontal receiver shall correspond to one of the options given in Figure 2 (Form A, B or C).

5.3 The lid(s) shall fit the body. It/they shall be made with at least 2 fixing points and have at least one means of opening.

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5.4 Each wheel shall be capable of withstanding a static load of 100 kg.

5.5 All the surfaces of the container including design features shall be smooth and free of any foreign bodies or flaws.

5.6 The container shall be able to be immobilised by design.

6 Nominal load

The container shall be constructed strongly enough to carry a load of $0,4 \text{ kg/dm}^3 \times \text{nominal volume}$.

7 Safety and health requirements

The container shall meet the safety and health requirements according to EN 840-6.

8 Testing

The container shall fulfil the performance requirements and the tests of EN 840-5.

9 Marking

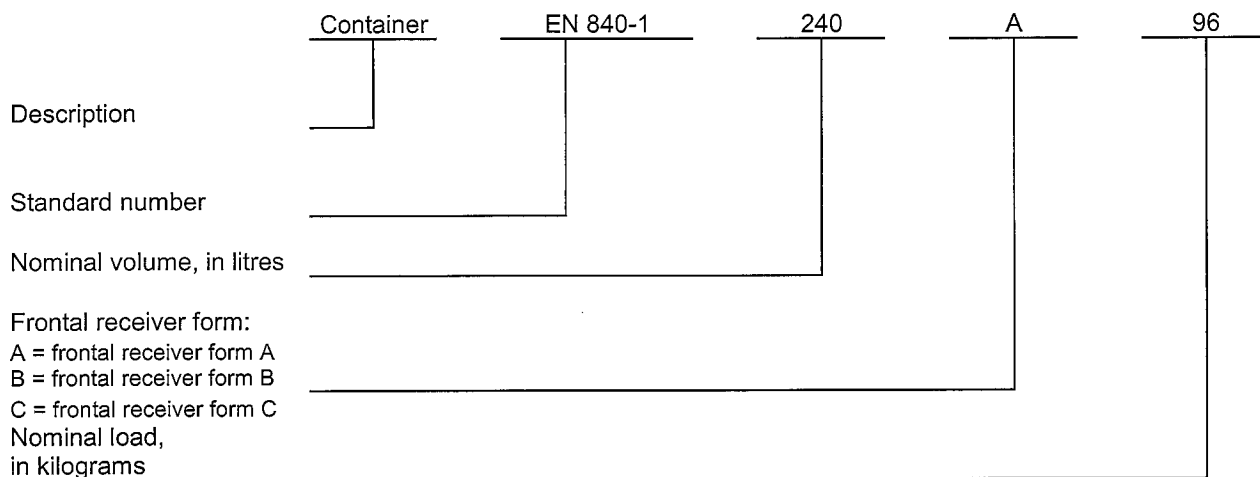
9.1 Each container complying with the requirements of this European Standard shall be durably and readably marked on the body in a visible part with:

- number of this European Standard (EN 840-1); [ST EN 840-1:2004](https://standards.iteh.ai/catalog/standards/sist/51ce9b0a-20a4-466d-882f-6a617afb1af2/sist-en-840-1-2004)
- nominal volume; <https://standards.iteh.ai/catalog/standards/sist/51ce9b0a-20a4-466d-882f-6a617afb1af2/sist-en-840-1-2004>
- manufacturer's name or trademark;
- total permissible mass, in kilograms;
- year and month of manufacturing.

9.2 Additional marking for quality, recycling, etc. is allowed. Beginning 5 years after the publication of this standard, plastic parts of containers, lids and wheels shall be marked in accordance with EN ISO 11469. The use of recycled materials is allowed, presuming that all requirements of this standard are complied with.

10 Designation

The container complying with the requirements of this European Standard shall be designated as follows:



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