

SINGAPORE STANDARD

Mobile waste and recycling containers

– Part 4 : Containers with 4 wheels with a capacity up to 1700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices – Dimensions and design

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National Foreword

This Singapore Standard was prepared by the Working Group on Waste Collection and Transportation Management set up by the Technical Committee on Circularity of Materials under the purview of the Environment and Resources Standards Committee.

This standard is a revision of SS EN 840-4:2014. It is an identical adoption of EN 840-4:2020, “Mobile waste and recycling containers – Part 4: Containers with 4 wheels with a capacity up to 1700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices – Dimensions and design”, and is adopted with permission of CEN, Rue de la Science 23 B - 1040 Brussels.

For clarity, the 2nd paragraph of the scope should be read as “The containers can only be used with the abovementioned lifting devices.”.

With reference to Subclause 9.1, below are some examples of markings of EN 840 containers in Singapore:



This marking shows the year and month of manufacturing:

- The months are represented on the outer part of the circle (1 to 12). The arrow points to the manufacturing month.
- The year of manufacture is represented by two bigger digits in the middle.
- This example shows the marking on a bin manufactured in March 2020.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as “mature standards”. Mature standards will not be subject to further review, unless there are requests to review such standards.
2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.
3. Compliance with a SS or TR does not exempt users from any legal obligations.

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 déchets et de recyclage - 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 basculeurs et/ou lève conteneurs à peigne large - Dimensions et conception

Fahrbare Abfall- und Wertstoffbehälter - Teil 4: Behälter mit 4 Rädern und einem Nennvolumen bis 1 700 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 7 October 2019.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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European foreword

This document (EN 840-4:2020) 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 October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

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

This document supersedes EN 840-4:2012.

The main changes compared to the previous edition are listed below:

- a) Figure 1 "System dimensions" have been updated;
- b) Figure 9 "Functional dimension for frontal receivers" have been added;
- c) former Annex A "Recommendations for manufacturers of lifting devices" has been deleted;
- d) the document has been editorially revised and adapted to the new design rules.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document 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.

These containers are only approved for the before explicitly mentioned lifting devices.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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, *Mobile waste and recycling containers — Part 6: Safety and health requirements*

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

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

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

NOTE Terms for components of mobile waste and recycling containers and lifting devices in three languages are given in Annex A of EN 840-1:2020.

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

¹ Under preparation. Stage at the time of publication: FprEN 1501-1.