



SLOVENSKI STANDARD

SIST EN 840-1:2000

01-december-2000

Mobilni zbiralniki odpadkov - 1. del: Zbiralniki na dveh kolesih s prostornino od 80 l do 390 l za iztresalnike z glavnikom - Mere in oblikovanje

Mobile waste containers - Part 1: Containers with 2 wheels with a capacity from 80 l to 390 l for comb lifting devices - Dimensions and design

Fahrbare Abfallsammelbehälter - Teil 1: Behälter mit 2 Rädern und einem Volumen von 80 l bis 390 l für Kammschüttungen - Maße und Formgebung

Conteneurs roulants a déchets - Partie 1: Conteneurs a 2 roues de capacités comprises entre 80 l et 390 l pour leve-conteneurs a peigne - Dimensions et conception

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Ta slovenski standard je istoveten z: **EN 840-1:1997**

ICS:

13.030.40	Naprave in oprema za odstranjevanje in obdelavo odpadkov	Installations and equipment for waste disposal and treatment
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EUROPEAN STANDARD

EN 840-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1997

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

English version

**Mobile waste containers - Part 1: Containers with
2 wheels with a capacity from 80 l to 390 l for
comb lifting devices - Dimensions and design**

Conteneurs roulants à déchets - Partie 1:
Conteneurs à 2 roues de capacités comprises
entre 80 l et 390 l pour lève-conteneurs à
peigne - Dimensions et conception

Fahrbare Abfallsammelbehälter - Teil 1:
Behälter mit 2 Rädern und einem Volumen von 80
l bis 390 l für Kammschüttungen - Maße und
Formgebung

<https://standards.iteh.ai/catalog/standards/sist/8b31d161-04e6-48d5-a4fc-866b8381eb9d/sist-en-840-1-2000>

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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.

The European Standards exist 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.

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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 2 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 4 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 4 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 4 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.

1 Scope

This part of EN 840 specifies dimensions and design requirements of mobile waste containers with 2 wheels, with capacity from 80 l to 390 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 this 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 840-5

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.

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

3.1 Mobile waste container

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 Comb 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 Volume

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

3.5 Nominal Volume

The volume given in table 1 without tolerances.

3.6 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".

3.7 Nominal Load

The load, which is calculated as given in clause 6.

3.8 Total Permissible Mass

The mass of the container plus the nominal load.

4 Volumes

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Table 1: Volumes
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Volume in l								
80 $\pm 1 \frac{8}{5}$	100 $\pm 1 \frac{2}{5}$	120 $\pm 8 \frac{8}{6}$	130 ± 7	140 $\pm 6 \frac{6}{12}$	210 $\pm 15 \frac{15}{5}$	240 $\pm 15 \frac{15}{5}$	340 $\pm 40 \frac{40}{20}$	390 ± 20

For measuring methods of capacity see EN 840-5.

The value shown in table 1 correspond to mobile waste container's capacity 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.

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 tables 2 and 3 shall be respected. Recommendations for manufacturers of lifting devices are given in Annex B (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. The frontal receiver shall correspond to 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 2 fixing points and have at least one means for opening.

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

5.5 The axle diameter for the wheels shall be ($22 \pm 0,3 \frac{0,3}{0,7}$) mm.

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

5.7 The container shall be able to be immobilized by design.

6 Nominal Load

The container shall be constructed strongly enough for a load of $0,4 \text{ kg/dm}^3 \times \text{nominal volume}$ with a minimum of 40 kg.

7 Safety and health requirements

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

8 Testing

The container shall fulfill 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 durable marked on the body in a visible part with:

- the number of this European Standard (840-1)
- the nominal volume
- manufacturers name or trademark
- maximum permissible mass in kg
- year and month of manufacturing

9.2 Furthermore signs of quality, recycling, etc. are allowed.

10 Designation

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

	Container	EN 840-1	240	A	96
Description					
Standard number					
Nominal volume in l					
Frontal receiver form: A = frontal receiver form A B = frontal receiver form B C = frontal receiver from C					
Nominal load in kg					

Table 2: Dimensions for containers from 80 l to 140 l

Dimensions in mm

Item No	80 l		100 l		120 l	130 l		140 l	Remarks
	I	II	I	II		I	II		
1	448 ± 5	480 ± 5	472 ± 5		505 max.	472 ± 5		505 max.	Total width of the container
2	448 ± 5	480 ± 5	472 ± 5	390 ± 10	480 ± 5	472 ± 5	390 ± 10	480 ± 5	Width of the frontal receiver
3	530 max.	555 max.	558 max.		555 max.	558 max.		555 max.	
4	945 ± 30		1021 max.		945 ± 30	1021 max.		1075 $^{+25}_{-20}$	Including handles on the lid
5	890 ± 30		956 ± 15		890 ± 30	956 ± 15		995 $^{+20}_{-10}$	
6	450 max.	490 max.	497 max.		490 max.	497 max.		490 max.	
7	1010 max.		1090 max.		1010 max.	1090 max.		1155 max.	
8	360 ± 20		380 ± 7		370 min.	380 ± 7		385 ± 15	
9	410 max.	450 max.	440 ± 10		440 ± 10	440 ± 10		450 max.	
10	320 ± 10	365 $^{+20}_{-25}$	455 ± 15		365 $^{+20}_{-25}$	455 ± 15		365 $^{+20}_{-25}$	
11	200 $^0_{-5}$		200 $^0_{-5}$		200 $^0_{-5}$	200 $^0_{-5}$		200 $^0_{-5}$	Larger wheels accepted as an option
12	19 min.		19 min.		19 min.	19 min.		19 min.	
13	6 $^{+2}_{-3}$		6 $^{+2}_{-3}$		6 $^{+2}_{-3}$	6 $^{+2}_{-3}$		6 $^{+2}_{-3}$	
14	25 min.		25 min.		25 min.	25 min.		25 min.	
15	13 $^{+5}_{-3}$		13 $^{+5}_{-3}$		13 $^{+5}_{-3}$	13 $^{+5}_{-3}$		13 $^{+5}_{-3}$	
16	22 $^{+1}_{-3}$		22 $^{+1}_{-3}$		22 $^{+1}_{-3}$	22 $^{+1}_{-3}$		22 $^{+1}_{-3}$	
17	20 $^{+3}_{-1}$		20 $^{+3}_{-1}$		20 $^{+3}_{-1}$	20 $^{+3}_{-1}$		20 $^{+3}_{-1}$	
18	26 ± 1		26 ± 1		26 ± 1	26 ± 1		26 ± 1	
19	58 max.		58 max.		58 max.	58 max.		58 max.	
20	20 min.		20 min.		20 min.	20 min.		20 min.	
21	130 max.		130 max.		130 max.	130 max.		130 max.	
22	15 max.		15 max.		15 max.	15 max.		15 max.	
23	33 $^{+8}_{-0}$		33 $^{+8}_{-0}$		33 $^{+8}_{-0}$	33 $^{+8}_{-0}$		33 $^{+8}_{-0}$	
24	40 $^{+5}_{-7}$		40 $^{+5}_{-7}$		40 $^{+5}_{-7}$	40 $^{+5}_{-7}$		40 $^{+5}_{-7}$	
25	230 ± 12	-	279 ± 5		270 ± 12	279 ± 5		270 ± 12	Optional measurement
26	147 ± 8	180 ± 5	180 ± 5	291 ± 5	180 ± 5	180 ± 5	291 ± 5	180 ± 5	Optional measurement
27	270° min.		270° min.		270° min.	270° min.		270° min.	

Table 3: Dimensions for containers from 210 I to 390 I

Pos. No	Dimensions in mm					Remarks	
	210 I		240 I	340 I	390 I		
	I	II			I	II	
1	546 ± 5		580 ± 5	665 max.	745 ± 5		Total width of the container
2	546 ± 5	407 ± 10	580 ± 5	590 ± 20	745 $\begin{smallmatrix} +5 \\ -15 \end{smallmatrix}$	660 ± 10	Width of the frontal receiver
3	730 max.		740 max.	880 max.	810 max.		
4	1095 max.		1100 max.	1100 ± 15	1095 max.		Including handles on the lid
5	1000 ± 15		995 ± 15	1010 ± 20	1000 max.		
6	565 max.		590 max.	590 max.	775 max.		
7	1180 max.		1155 max.	1250 max.	1200 max.		
8	494 ± 10		495 min.	670 max.	559 ± 15		
9	490 ± 10		550 ± 7	650 max.	719 ± 10		
10	515 ± 15		430 $\begin{smallmatrix} +20 \\ -30 \end{smallmatrix}$	565 max.	722 ± 5		
11	200 $\begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$		200 $\begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$	200 $\begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$	200 $\begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$		Larger wheels accepted
12	19 min.		19 min.	19 min.	19 min.		
13	6 $\begin{smallmatrix} +2 \\ -3 \end{smallmatrix}$		6 $\begin{smallmatrix} +2 \\ -3 \end{smallmatrix}$	6 $\begin{smallmatrix} +2 \\ -3 \end{smallmatrix}$	6 $\begin{smallmatrix} +2 \\ -3 \end{smallmatrix}$		
14	25 min.		25 min.	25 min.	25 min.		
15	13 $\begin{smallmatrix} +5 \\ -3 \end{smallmatrix}$		13 $\begin{smallmatrix} +5 \\ -3 \end{smallmatrix}$	13 $\begin{smallmatrix} +5 \\ -3 \end{smallmatrix}$	13 $\begin{smallmatrix} +5 \\ -3 \end{smallmatrix}$		
16	22 $\begin{smallmatrix} +1 \\ -3 \end{smallmatrix}$		22 $\begin{smallmatrix} +1 \\ -3 \end{smallmatrix}$	22 $\begin{smallmatrix} +1 \\ -3 \end{smallmatrix}$	22 $\begin{smallmatrix} +1 \\ -3 \end{smallmatrix}$		
17	20 $\begin{smallmatrix} +3 \\ -1 \end{smallmatrix}$		20 $\begin{smallmatrix} +3 \\ -1 \end{smallmatrix}$	20 $\begin{smallmatrix} +3 \\ -1 \end{smallmatrix}$	20 $\begin{smallmatrix} +3 \\ -1 \end{smallmatrix}$		
18	26 ± 1		26 ± 1	26 ± 1	26 ± 1		
19	58 max.		58 max.	58 max.	58 max.		
20	20 min.		20 min.	20 min.	20 min.		
21	130 max.		130 max.	130 max.	130 max.		
22	15 max.		15 max.	15 max.	15 max.		
23	33 $\begin{smallmatrix} +8 \\ 0 \end{smallmatrix}$		33 $\begin{smallmatrix} +8 \\ 0 \end{smallmatrix}$	33 $\begin{smallmatrix} +8 \\ 0 \end{smallmatrix}$	33 $\begin{smallmatrix} +8 \\ 0 \end{smallmatrix}$		
24	40 $\begin{smallmatrix} +5 \\ -7 \end{smallmatrix}$		40 $\begin{smallmatrix} +5 \\ -7 \end{smallmatrix}$	40 $\begin{smallmatrix} +5 \\ -7 \end{smallmatrix}$	40 $\begin{smallmatrix} +5 \\ -7 \end{smallmatrix}$		
25	345 ± 5		352 $\begin{smallmatrix} +5 \\ -2 \end{smallmatrix}$	355 max.	530 ± 5		Optional measurement
26	291 ± 5		291 $\begin{smallmatrix} +3 \\ -5 \end{smallmatrix}$	300 $\begin{smallmatrix} +5 \\ -10 \end{smallmatrix}$	390 $\begin{smallmatrix} +5 \\ -10 \end{smallmatrix}$	291 ± 5	Optional measurement
27	270° min.		270° min.	270° min.	270° min.		