

SVENSK STANDARD

SS-EN 12574-1:2017

Fastställt/Approved: 2017-02-09
Publicerad/Published: 2017-02-13
Utgåva/Edition: 3
Språk/Language: engelska/English
ICS: 13.030.40

Stationära avfallsbehållare –

Del 1: Behållare med volymer upp till 10 000 l, med plana eller kupiga lock, för lyftanordning med svängtapp, dubbel svängtapp eller lyftficka – Mått och utförande

Stationary waste containers –

Part 1: Containers with a capacity up to 10 000 l with flat or dome lid(s), for trunnion, double trunnion or pocket lifting device – Dimensions and design

This preview is downloaded from www.sis.se. Buy the entire standard via <https://www.sis.se/std-8024969>

Standarder får världen att fungera

SIS (Swedish Standards Institute) är en fristående ideell förening med medlemmar från både privat och offentlig sektor. Vi är en del av det europeiska och globala nätverk som utarbetar internationella standarder. Standarder är dokumenterad kunskap utvecklad av framstående aktörer inom industri, näringsliv och samhälle och befrämjar handel över gränser, bidrar till att processer och produkter blir säkrare samt effektiviserar din verksamhet.

Delta och påverka

Som medlem i SIS har du möjlighet att påverka framtida standarder inom ditt område på nationell, europeisk och global nivå. Du får samtidigt tillgång till tidig information om utvecklingen inom din bransch.

Ta del av det färdiga arbetet

Vi erbjuder våra kunder allt som rör standarder och deras tillämpning. Hos oss kan du köpa alla publikationer du behöver – allt från enskilda standarder, tekniska rapporter och standardpaket till handböcker och onlinetjänster. Genom vår webbtjänst e-nav får du tillgång till ett lättnavigerat bibliotek där alla standarder som är aktuella för ditt företag finns tillgängliga. Standarder och handböcker är källor till kunskap. Vi säljer dem.

Utveckla din kompetens och lyckas bättre i ditt arbete

Hos SIS kan du gå öppna eller företagsinterna utbildningar kring innehåll och tillämpning av standarder. Genom vår närhet till den internationella utvecklingen och ISO får du rätt kunskap i rätt tid, direkt från källan. Med vår kunskap om standarders möjligheter hjälper vi våra kunder att skapa verklig nytta och lönsamhet i sina verksamheter.

Vill du veta mer om SIS eller hur standarder kan effektivisera din verksamhet är du välkommen in på www.sis.se eller ta kontakt med oss på tel 08-555 523 00.



Standards make the world go round

SIS (Swedish Standards Institute) is an independent non-profit organisation with members from both the private and public sectors. We are part of the European and global network that draws up international standards. Standards consist of documented knowledge developed by prominent actors within the industry, business world and society. They promote cross-border trade, they help to make processes and products safer and they streamline your organisation.

Take part and have influence

As a member of SIS you will have the possibility to participate in standardization activities on national, European and global level. The membership in SIS will give you the opportunity to influence future standards and gain access to early stage information about developments within your field.

Get to know the finished work

We offer our customers everything in connection with standards and their application. You can purchase all the publications you need from us - everything from individual standards, technical reports and standard packages through to manuals and online services. Our web service e-nav gives you access to an easy-to-navigate library where all standards that are relevant to your company are available. Standards and manuals are sources of knowledge. We sell them.

Increase understanding and improve perception

With SIS you can undergo either shared or in-house training in the content and application of standards. Thanks to our proximity to international development and ISO you receive the right knowledge at the right time, direct from the source. With our knowledge about the potential of standards, we assist our customers in creating tangible benefit and profitability in their organisations.

If you want to know more about SIS, or how standards can streamline your organisation, please visit www.sis.se or contact us on phone +46 (0)8-555 523 00



Europastandarden EN 12574-1:2017 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 12574-1:2017.

Denna standard ersätter SS-EN 12574-1:2006, utgåva 2.

The European Standard EN 12574-1:2017 has the status of a Swedish Standard. This document contains the official English version of EN 12574-1:2017.

This standard supersedes the Swedish Standard SS-EN 12574-1:2006, edition 2.

© Copyright/Upphovsrätten till denna produkt tillhör SIS, Swedish Standards Institute, Stockholm, Sverige. Användningen av denna produkt regleras av slutanvändarlicensen som återfinns i denna produkt, se standardens sista sidor.

© Copyright SIS, Swedish Standards Institute, Stockholm, Sweden. All rights reserved. The use of this product is governed by the end-user licence for this product. You will find the licence in the end of this document.

Uppllysningar om sakinnehållet i standarden lämnas av SIS, Swedish Standards Institute, telefon 08-555 520 00. Standarder kan beställas hos SIS Förlag AB som även lämnar allmänna uppllysningar om svensk och utländsk standard.

Information about the content of the standard is available from the Swedish Standards Institute (SIS), telephone +46 8 555 520 00. Standards may be ordered from SIS Förlag AB, who can also provide general information about Swedish and foreign standards.

Denna standard är framtagen av kommittén för Utrustning för avfallshantering, SIS/TK 252.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD

EN 12574-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2017

ICS 13.030.40

Supersedes EN 12574-1:2006

English Version

Stationary waste containers - Part 1: Containers with a capacity up to 10 000 l with flat or dome lid(s), for trunnion, double trunnion or pocket lifting device - Dimensions and design

Conteneurs fixes à déchets - Partie 1 : Conteneurs de capacité allant jusqu'à 10 000 l à couvercle(s) plat(s) ou bombé(s), pour lève-conteneurs à préhension par tourillons, double tourillon ou manchons - Dimensions et conception

Stationäre Abfallsammelbehälter - Teil 1: Behälter mit einem Volumen bis 10 000 l mit Flach- oder Schiebedeckel(n), für Schüttungen mit Zapfenaufnahme, Doppelzapfenaufnahme oder Taschenaufnahme - Maße und Formgebung

This European Standard was approved by CEN on 21 November 2016.

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



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

SS-EN 12574-1:2017 (E)

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Volumes	6
5	Dimensions and design	7
6	Nominal load and total permissible mass	7
7	Safety and health requirements	7
8	Testing	7
9	Marking	8
10	Designation	8
Annex A (informative) A-deviations		23
Bibliography		24

European foreword

This document (EN 12574-1:2017) 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 August 2017, and conflicting national standards shall be withdrawn at the latest by August 2017.

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 12574-1:2006.

This European Standard is one part of the series of standards EN 12574 about “Stationary waste containers” comprising the following parts:

- Part 1: Containers with a capacity up to 10 000 l with flat or dome lid(s), for trunnion, double trunnion or pocket lifting device — Dimensions and design;
- Part 2: Performance requirements and test methods;
- Part 3: 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

SS-EN 12574-1:2017 (E)

1 Scope

This part of EN 12574 specifies dimensions and requirements of stationary waste containers (in the text also called containers) without wheels or with wheels for positioning purposes only, with flat or dome lid(s) and capacities up to 10 000 l for trunnion, double trunnion or pocket lifting devices.

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 1501-5, *Refuse collection vehicles - General requirements and safety requirements - Part 5: Lifting devices for refuse collection vehicles*

EN 12574-2:2017, *Stationary waste containers - Part 2: Performance requirements and test methods*

EN 12574-3:2017, *Stationary waste containers - Part 3: Safety and health requirements*

EN 840-1:2012, *Mobile waste and recycling containers - Part 1: Containers with 2 wheels with a capacity up to 400 l for comb lifting devices - Dimensions and design*

3 Terms and definitions

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

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

3.1 stationary waste container
appropriately designed container without wheels or fitted with them, for positioning empty containers only, to temporarily store waste

3.2 lifting device
structure which picks-up, tilts and empties containers into the RCV (Refuse Collection Vehicle) and returns the container to the ground

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

3.4 double trunnion lifting device
lifting device in which the picking-up system of the RCV consists of a pair of arms with automatic locking mechanism to fit the trunnions and to retain the container during emptying

Note 1 to entry: The double trunnion picking-up system supports the torsional moment during the tilting motion.

3.5

pocket lifting device

lifting device in which the picking-up system of the RCV consists of a pair of arms to fit the pockets located on either side of the container

3.6

volume

total space inside the container when the lid is closed

3.6.1

nominal volume

volume of the waste container as declared by the manufacturer

3.6.2

usable volume

inside volume of the container that can be filled with waste

Note 1 to entry: The usable volume is based on specific application depending on the collected material and on the shape of the cover. It corresponds to:

- the volume below the filling apertures, in case of special filling apertures
- the volume of the tank, in case of collection of liquid material or in case of customer request
- the total space inside the container when the lid is closed

3.7

nominal load

load, which is calculated by density values of material multiplied by the nominal volume (3.6.1)

Note 1 to entry: Clause 6

3.8

total permissible mass

nominal load plus the dead mass of the container including all attached components lifted together

3.9

capacity

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

3.10

interface for trunnion lifting device

distance at the base of the trunnion where it meets the container

Note 1 to entry: see dimension number 13 in Figure 1

3.10.1

wide interface

interface for trunnion lifting device of $(1\,760 \pm 10)$ mm

3.10.2

narrow interface

interface for trunnion lifting device of $(1\,260^{+20}_{-10})$ mm

SS-EN 12574-1:2017 (E)

3.11

interface for pocket lifting device

distance between the two lateral boxes stopping the arms before lifting phase

3.11.1

wide interface

interface for pocket lifting device of $(1\ 820 \pm 15)$ mm

3.11.2

medium interface

interface for pocket lifting device of $(1\ 710 \pm 15)$ mm

3.11.3

narrow interface

interface for pocket lifting device of $(1\ 600 \pm 15)$ mm

3.12

disabled access

specific ergonomic devices and/or solutions in the waste containers to facilitate access by disabled persons

3.13

lid

set of parts closing the top of the body of a waste container including one or more flaps, and including all the related components

3.14

locked lid

lid which is closed so that it cannot be opened manually by a single person; this locked lid is usually opened by a vehicle refuse collection vehicle during emptying operations

3.15

access flap

part of the lid which is opened for waste introduction

3.16

hinged access flap

flap that can be opened for waste introduction by a rotation around a hinge axle which is part of the lid

Note 1 to entry: See an example in Figure 4, type 4, with hinged lid open and tilted cover.

3.17

sliding flap

flap that can be opened only by a sliding movement

3.18

locked flap

part of the lid carrying filling aperture(s) or mechatronics device(s) which it is not opened for waste introduction

4 Volumes

The nominal volume of the containers shall be up to 10 000 l (see Tables 1, 2, 3, 4 and 5). The tolerance on nominal volume is $\pm 5\%$. For measuring methods of volume, see EN 12574-2:2017.

5 Dimensions and design

5.1 The design of the containers need not correspond strictly to the drawings given in Figures 1 to 8. However, the dimensions given in Tables 1 to 5 and Figures 1 to 8 shall be respected.

5.2 The container shall be constructed so that when it is unloaded or loaded with a nominal load, it fits on an approved compatible lifting device according to EN 1501-5.

5.3 The lid(s) shall be permanently fitted to the body via at least two fixing points and have at least one hand grip or other means for opening. The force for opening the lid manually shall be maximum 50 N. For container lids needing a handling force higher than 50 N the lid shall be held self-acting in opened position.

5.4 Handles and their location shall be designed so that they neither injure the operator nor obstruct the emptying operation according to Clause 4 of EN 12574-3:2017. For handles fitted above trunnion, see Figure 2.

5.5 Sharp edges shall be avoided in all cases. Rounded edges with a radius more than 1,4 mm are not considered as sharp edges. The surfaces shall be free of any foreign bodies or flaws.

5.6 The container should have a drain hole equipped with a suitable plug. The hole and the plug are optional.

5.7 If the container has positioning wheels, it shall be possible to immobilize it by design or device. If wheels are fitted, the minimum diameter shall be 200 mm.

5.8 Disabled access: optional specific ergonomic devices and/or solutions in the waste container for facilitating the access of disabled could be for instance:

- opening/s in a special low level;
- manual handle located at low level for opening the normal lid.

5.9 Locked lid: the force required to unlock a locked lid shall exceed 500 N however applied. Cover locking device shall be not demountable or by-passed without specific tool/s.

6 Nominal load and total permissible mass

The container shall be constructed strongly enough for the nominal load calculated by 0,25 kg/dm³ or 0,40 kg/dm³ (see EN 12574-2:2017, 4.5) multiplied by nominal volume.

Total permissible mass shall be declared by the waste container manufacturer.

7 Safety and health requirements

The containers shall meet the safety and health requirements according to EN 12574-3:2017.

8 Testing

The container shall fulfil the performance and test requirements of EN 12574-2:2017.