

SVENSK STANDARD

SS-EN 13071-2:2008+A1:2013



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**Stationära avfallsbehållare med volymer upp till 5 000 l, topplyfta och bottentömda –
Del 2: Tilläggskrav för underjordiska eller delvis underjordiska system**

**Stationary waste containers up to 5 000 l, top lifted and bottom emptied –
Part 2: Additional requirements for underground or partly underground systems**



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Denna standard ersätter SS-EN 13071-2:2008, utgåva 1 och SS-EN 13071-2:2008/AC:2010, utgåva 1.

The European Standard EN 13071-2:2008+A1:2013 has the status of a Swedish Standard. This document contains the official version of EN 13071-2:2008+A1:2013.

This standard supersedes the Swedish Standard SS-EN 13071-2:2008, edition 1 and SS-EN 13071-2:2008/AC:2010, edition 1.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13071-2:2008+A1

October 2013

ICS 13.030.40

Supersedes EN 13071-2:2008

English Version

Stationary waste containers up to 5 000 l, top lifted and bottom emptied - Part 2: Additional requirements for underground or partly underground systems

Conteneurs fixes à déchets de capacité inférieure ou égale à 5 000 l, levés par le haut et vidés par le bas - Partie 2: Exigences complémentaires relatives aux systèmes enterrés ou semi-enterrés

Stationäre Abfallsammelbehälter bis 5 000 l, mit Behälteraufnahme an der Oberseite und Bodenentleerung - Teil 2: Zusätzliche Anforderungen für unterirdische oder teilweise unterirdische Systeme

This European Standard was approved by CEN on 18 April 2008 and includes Corrigendum 1 issued by CEN on 24 March 2010 and Amendment 1 approved by CEN on 19 August 2013.

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.

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

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

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Foreword

This document (EN 13071-2:2008+A1:2013) 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 April 2014, and conflicting national standards shall be withdrawn at the latest by April 2014.

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.

A1 This document supersedes EN 13071-2:2008. **A1**

This European Standard includes Corrigendum 1 issued by CEN on 2010-03-24 and Amendment 1 approved by CEN on 2013-08-19.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags **AC** **AC**.

Part 1 covers the general requirements for stationary waste containers up to 5 000 l, top lifted and bottom emptied. Some technical changes respect to the previous edition, EN 13071:2002, address:

- a) the minimum capacity of 80 l which has been deleted;
- b) the definitions of, and general requirements for Type A and Type B containers;
- c) test conditions including a new test on the resistance of the roof;
- d) changes to data sheet, marking and test report;
- e) deletion of Annex A dealing with the noise test method for containers for waste glass collection for Type A and Type B, with volumes greater than or equal to 500 l.

Part 2 covers additional requirements for underground or partly underground containers.

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 the additional requirements for underground or partly underground systems top lifted and bottom emptied, used for collection of solid non-hazardous wastes with a capacity up to 5 000 l.

2 Normative references

The following referenced documents are indispensable for the application 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 10327, *Continuously hot-dip coated strip and sheet of low carbon steels for cold forming - Technical delivery conditions*

EN 13071-1:2008, *Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 1: General requirements*

EN ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods (ISO 1461:1999)*

ISO 2081, *Metallic coatings – Electroplated coatings of zinc on iron or steel*

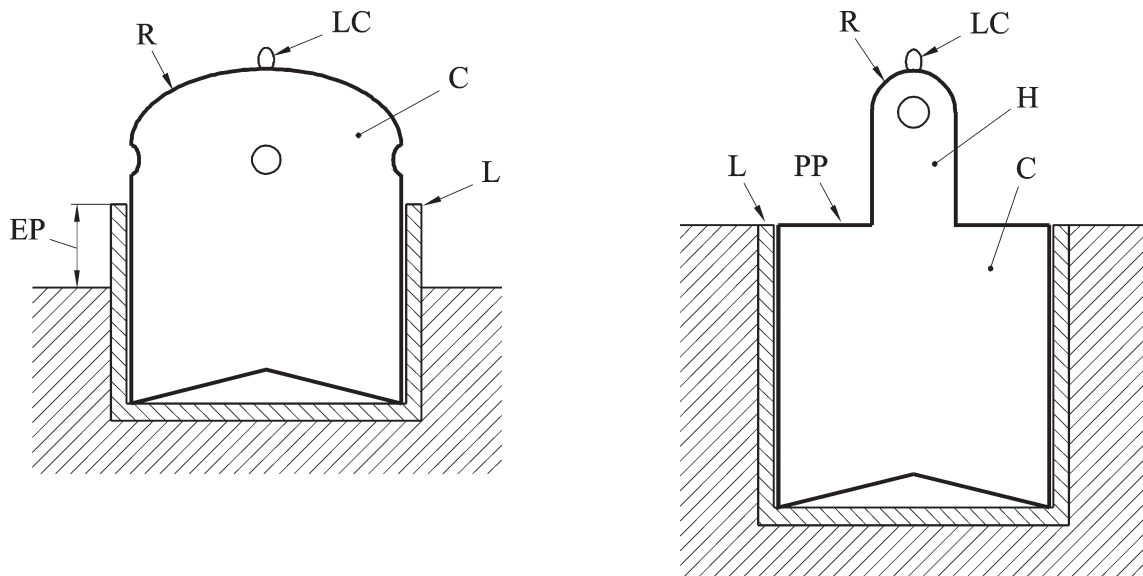
3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13071-1:2008 and the following apply.

3.1

underground or partly underground system

system whose emptying device is located below surrounding ground level at any point



a) partly underground system

b) underground system

Key

- C container
- EP emergent part
- H housing
- L liner
- LC lifting connection
- PP pedestrian platform
- R roof

Figure 1 — Underground and partly underground system

3.2

container

mobile part of underground or partly underground system, designated to collect/receive the waste

3.3

liner

equipment installed fully or partly in the ground, whose function is to receive the container

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3.4 housing
part of the container that is fixed to the pedestrian platform, above ground level, that is used to fill the container

3.5 pedestrian platform
part of the system to which the housing is fixed or is used by pedestrians to walk on to fill the container

3.6 emergent part
part of the liner that permanently emerges from surrounding ground level

3.7 hole
space below ground level that is left by the container when it is removed from the liner

3.8 safety barrier
moving part of the system that prevents accidental access to the hole left by the container when it is removed from the liner

3.9 safety floor
moving part of the system that covers the hole left by the container when it is removed from the liner

4 Requirements

4.1 General requirements

See EN 13071-1:2008, Clause 4.

4.2 Design

A1 Round filling apertures having a diameter more than 200 mm or rectangular ones with no dimension less than 150 mm shall be equipped with a drum or a self-closing device (lid, cover, flap, ...). **A1**

The liner shall be resistant to withstand ground pressure and shall be secured against floating or sinking.

The liner shall be designed and built to allow easy cleaning and pumping out of any fluids that have leaked from the container.

The container shall retain residual liquids up to a minimum of 2 % of the nominal volume.

Safety devices shall be resistant to all weather conditions, moisture and dirt that could negatively affect their functionality.

For maintenance and cleaning, all parts of the underground or partly underground system shall be easily accessible.

If present, the pedestrian platform shall be designed in order to prevent accidental slipping and tripping of pedestrians.

4.3 Safety requirements

4.3.1 Hole

During supervised operations, the hole if deeper than 500 mm measured at any point shall be equipped with safety device(s) in order to prevent anyone accidentally falling into it, or being injured by any moving parts of the system.

The safety device can be either a safety floor or a safety barrier.

If, when the container is removed, the emergent part is a minimum of 900 mm above ground level at any point, no other safety device will be required to protect accidental falls into the hole.

In all cases, the safety device(s) shall be highly visible or sensitive to pedestrians.

If the hole is left unsupervised, it shall be covered by a specific device that shall resist a minimum load of 500 kg/m² on every point applied on a circle of a diameter of 200 mm.

4.3.2 Pedestrian platform

When the container is in place, pedestrian and other sidewalk traffic shall be able to safely pass over it. In any case, the pedestrian platform shall resist a minimum load of \boxed{AC} 500 kg \boxed{AC} on every point applied on a circle of a diameter of 200 mm.

Precautions shall be taken when locating the system to restrict access by vehicles on to the pedestrian platform.

4.3.3 Safety floor

The safety floor shall move to the safe position automatically when the container is removed from the liner. In its safe position, the safety floor shall not be positioned deeper than 210 mm below the top of the liner at all points.

The safety floor shall resist a minimum load of 150 kg on every point applied on a circle of a diameter of 300 mm without moving down more than 150 mm.

4.3.4 Safety barrier

The safety barrier shall move to the safe position automatically when the container is removed from the liner.

Safety barriers shall be a minimum of 900 mm high from ground level to the top of the barrier, at all points around the hole, with no interruption greater than 200 mm. The safety barriers shall have a ground clearance of 400 mm maximum and the distance between two open horizontal members shall not exceed 400 mm.

The safety barrier shall resist a minimum force of 180 N applied perpendicularly to the vertical plane.

5 Test conditions

See EN 13071-1:2008, Clause 5.