SLOVENSKI STANDARD
oSIST prEN 13071-3:2018

01-september-2018

Nepremični zabojniki za odpadke do 5000 l, ki se dvigujejo zgoraj in praznijo spodaj - 3. del: Priporočeni sistemi za dvigovanje

Stationary waste containers up to 5 000 l, top lifted and bottom emptied - Part 3: Recommended lifting connections

Stationäre Abfallsammelbehälter bis 5 000 l, mit Behälteraufnahme an der Oberseite und Bodenentleerung - Teil 3: Empfohlene Hebesysteme/Lastaufnahmen

Conteneurs fixes à déchets de capacité inférieure ou égale à 5 000 l, levés par le haut et vidés par le bas - Partie 3 : Pièces intermédiaires de levage recommandées

Ta slovenski standard je istoveten z: prEN 13071-3

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

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English Version

Stationary waste containers up to 5 000 l, top lifted and bottom emptied - Part 3: Recommended lifting connections

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 183.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 13071-3:2018) has been prepared by Technical Committee CEN/TC 183 “Waste management”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13071-3:2011.

EN 13071 consists of the following parts, under the general title “Stationary waste containers up to 5 000 l, top lifted and bottom emptied”:

— Part 1: General requirements;

— Part 2: Additional requirements for underground or partly underground systems;

— Part 3: Recommended lifting connections.

1 Scope

This document specifies the requirements for the container lifting connections to be used during the loading and unloading operations of the containers top lifted and bottom emptied.

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

EN 1677-1, *Components for slings — Safety — Part 1: Forged steel components, Grade 8*

EN 1677-2, *Components for slings — Safety — Part 2: Forged steel lifting hooks with latch, Grade 8*

EN 1677-3:2001,[1] *Components for slings - Safety - Part 3: Forged steel self-locking hooks - Grade 8*

EN 1677-4, *Components for slings — Safety — Part 4: Links, Grade 8*

EN 1677-5, *Components for slings — Safety — Part 5: Forged steel lifting hooks with latch - Grade 4*

EN 1677-6, *Components for slings — Safety — Part 6: Links - Grade 4*

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 http://www.iso.org/obp

3.1
container lifting connection
lifting and or opening/closing accessory which is part of the container and which is connected to the container handling system in order to handle the container

Note 1 to entry: See Figure 1.

3.2
container handling system
lifting accessory assembled to the crane consisting of a mechanism to connect the crane and the designated waste container (and its opening mechanism)

Note 1 to entry: See Figure 1.

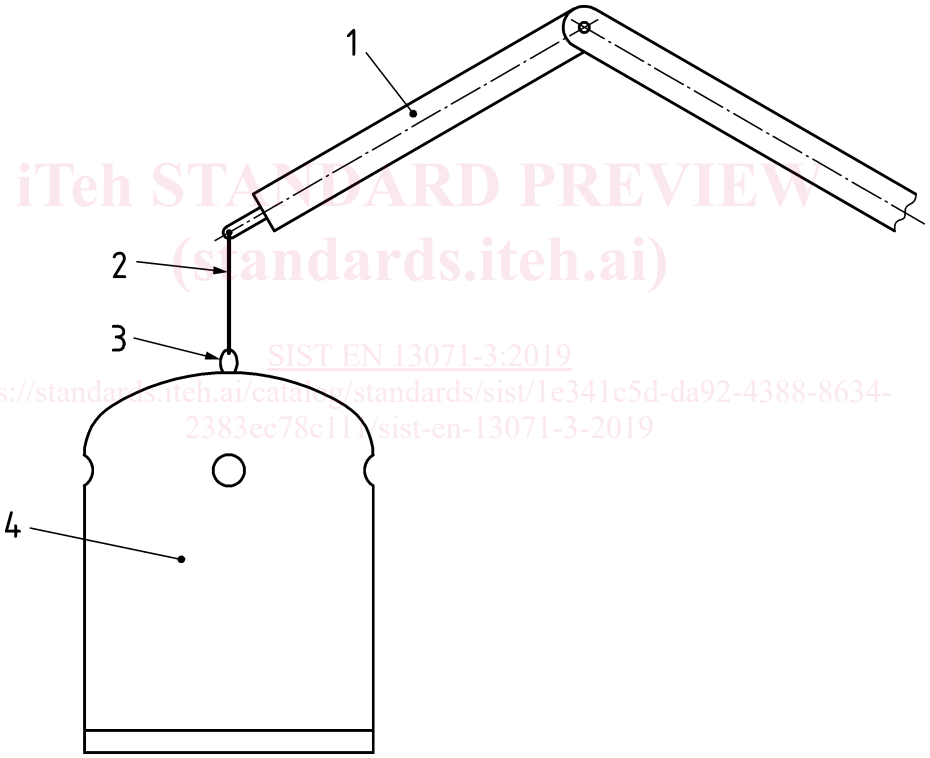
[1] As impacted by EN 1677-3:2001+A1:2008

3.3
loop
lifting connection or part of the lifting connection used for operating the container with a container handling system

3.4
fixed loop
loop whose position does not change relatively to the container

3.5
locking loop
loop(s) which is (are) used to lock and unlock the bottom hatch(es) of the container during handling operations

3.6
mushroom
lifting connection used for operating the container with a container handling system



Key
1 crane
2 handling system (see 3.2)
3 lifting connection (see 3.1)
4 container

Figure 1 — Example of lifting connection

4 Requirements

4.1 General requirements

The general requirements shall be according to EN 13071-1:2008.

4.2 Specificrequirements

4.2.1 General

This European Standard provides a list of non-exhaustive examples of recommended lifting connections, with dimensions. See Table 1.

4.2.2 Loop

4.2.2.1 Single loop

Dimensions shall allow the operating of the container by hooks that are covered by EN 1677 (series).

4.2.2.2 Two loops in line

Dimensions shall allow the operating of the container by hooks that are covered by EN 1677 (series). Interaxial distance between the two loops shall be 240 mm ± 10 mm.

4.2.2.3 Two loops parallel

Dimensions shall allow the operating of the container by hooks that are covered by EN 1677 (series). Interaxial distance between the two loops shall be 100 mm ± 40 mm.

4.2.2.4 Three loops in line

Dimensions shall allow the operating of the container by hooks that are covered by EN 1677 (series). Interaxial distance between the loops shall be 280 mm ± 50 mm.

4.2.3 Mushroom

Dimensions shall allow the operating of the container by a specifically designated container handling system. An example is shown in Annex B.

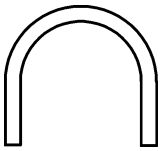
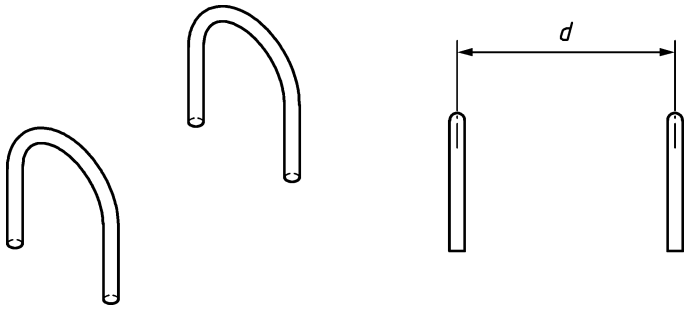
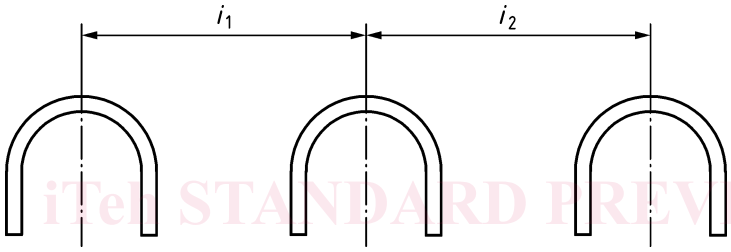
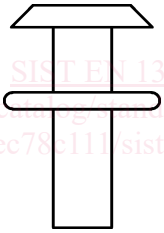
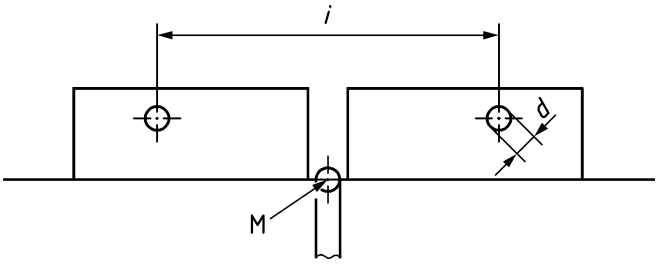
4.2.4 Movement of a locking loop / mushroom

If a locking loop / mushroom is used to lock / unlock the bottom hatch(es) of the container, this movement shall be vertical and not more than 500mm. The upper position of the locking loop / mushroom shall lock the bottom hatch(es); the lower position opens the bottom hatch(es)

4.2.5 Twin lifting bars

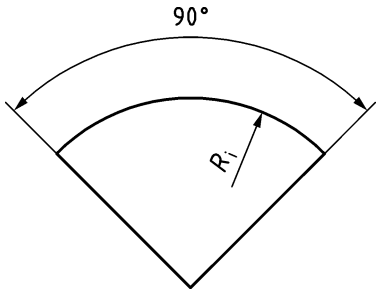
Dimensions shall allow the operating of the container by a specifically designated container handling system. Interaxial distance between the axles shall be 437 mm ± 5 mm.

Table 1 — Examples of recommended lifting connections

Family	Shape	Relevant Dimensions
Single loop		See Annex A.
Two loops parallel		d = loop distance = 100 mm ± 40 mm See Annex A.
Three loops in line		$i_1 = i_2 =$ loops interaxel $= 280mm \frac{+80\ mm}{-50\ mm}$ See Annex A.
Mushroom		See Annex B.
Twin lifting bars		i = distance between the axles= 437 mm ± 5 mm d = axle diameter= 32 mm ± 1 mm M = centre of the container and hingepoint of the container halves

Annex A
(normative)

Upper shape for loop



Key

R_i internal radius = 45 mm ± 5 mm for a minimum of 90° on the vertical upper axle

Figure A.1 — Upper shape for loop

The loop should be easily connectable to hooks from code number 8 to 16 of EN 1677-3:2001+A1:2008, Table 3.