

SLOVENSKI STANDARD SIST EN 1253-1:2003

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Hišni žlebovi - 1. del: Zahteve

Gullies for buildings - Part 1: Requirements

Abläufe für Gebäude - Teil 1: Anforderungen

iTeh STANDARD PREVIEW

Avaloirs et siphons pour bâtiments - Partie 1: Spécifications (standards.iteh.ai)

Ta slovenski standard je istoveten zsten EN:1253-1:2003

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ICS:

91.140.80 Drenažni sistemi Drainage systems

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EUROPEAN STANDARD

EN 1253-1

NORME EUROPÉENNE

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English version

Gullies for buildings - Part 1: Requirements

Avaloirs et siphons pour bâtiments - Partie 1: Spécifications

Abläufe für Gebäude - Teil 1: Anforderungen

This European Standard was approved by CEN on 20 February 2003.

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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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 1253-1:2003) has been prepared by the Technical Committee CEN/TC 165 "Wastewater engineering", 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of an identical text or by endorsement, at the latest by November 2003, and conflicting national standards shall be withdrawn at the latest by November 2003.

This document supersedes EN 1253-1:1999.

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

iTeh STANDARD PREVIEW

This standard classifies gullies, gives guidance for places of installation and specifies requirements for the construction, design, performance and marking of factory made gullies for buildings, irrespective of material, for use in drainage systems operating under gravity including siphonic systems.

NOTE Although normally used to convey domestic wastewater, industrial wastewater and rainwater, gullies can convey other wastewater provided there is no risk of damage to components or of injury to health.

This standard does not apply to gully tops and manhole tops which are specified in EN 124.

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 these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 124, Gully tops and manhole tops for vehicular and pedestrian areas - Design requirements, type testing, marking, quality control

EN 476, General requirements for components used in discharge pipes, drains and sewers for gravity systems.

prEN 1253-2:2002, Gullies for buildings — Part 2: Test methods.

EN 1253-3, Gullies for buildings — Part 3: Quality control.

3 Terms and definitions

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

3.1

gully

discharge fitting the top of which is a grating or cover capable of installation at ground, floor or roof level, intended to receive wastewater either through apertures in the grating and/or from pipes connected to the body of the gully (see figure 1)

NOTE A gully can include an integral trap and a sediment bucket (see figure 2).

3.2

side inlet gully

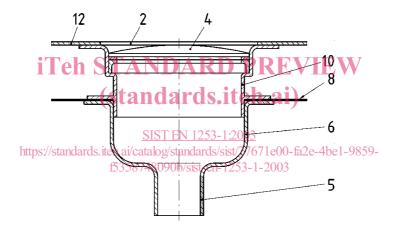
gully with one or more integral inlets for underfloor or underground connections (see figure 2)

3.3

roof outlet

non-trapped gully, used in a roof (see figure 3)

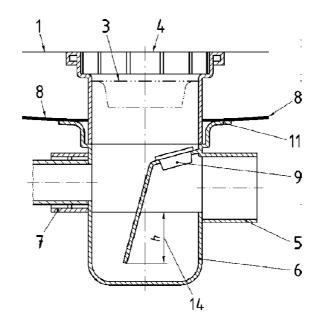
NOTE A roof outlet can include an anti-vortex device.



Key

- 2 Membrane clamping ring
- 4 Grating/cover and frame
- 5 Spigot
- 6 Body
- 8 Membrane
- 10 Extension
- 12 Sheet floor covering

Figure 1 — Gully, non-trapped (typical example)



Key

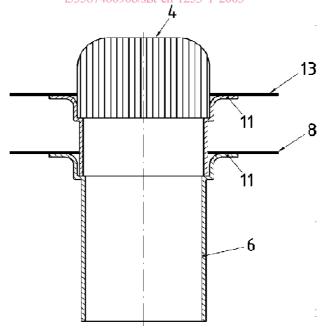
- 1 Finished floor
- 3 Sediment bucket
- 4 Grating/cover and frame
- 5 Spigot
- 6 Body
- 7 Side inlet
- 8 Membrane
- 9 Access for cleaning
- 11 Connecting flange
- 14 Depth of water seal

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Figure 2 — Side inlet gully, trapped (typical example)

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Key

- 4 Grating/cover and frame
- 6 Body
- 8 Membrane
- 11 Connecting flange
- 13 Roof layer

Figure 3 — Roof outlet (typical example)

3.4

grating

removable component with apertures which permit the discharge of wastewater

3.5

frame

support for a grating or cover which is connected to a body either directly or by means of a membrane clamping collar or an extension

3.6

cover

removable part of an access cover which covers the opening

3.7

body

part of a gully below or in the floor, ground or roof on which the grating/frame/extension is mounted, and to which pipework is connected

3.8

extension

component used to adjust the height of a grating or cover above a body

3.9

membrane clamping ring

component used to clamp a membrane or a sheet floor covering to a body or extension

3.10

joint iTeh STANDARD PREVIEW

connection between the adjacent ends of two components including the means of sealing (standards.iteh.ai)

3.11

connecting flange

separate or an integral part of a body or of an extension which receives a membrane or sheet floor covering

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nominal size (DN)

numerical indication of size which is a convenient integer approximately equal to the internal diameter (DN/ID) or the external diameter (DN/OD) in millimetres

3.13

external diameter

mean external diameter of the pipe barrel at any cross section

3.14

internal diameter

mean internal diameter of the pipe barrel at any cross section

3.15

gravity drainage system

system where flow is caused by gravity and where the pipe normally operates partially full

3.16

trap

removable or integral part of the body which prevents, by means of water seal the passage of foul air from the outlet to the inlet

3.17

depth of water seal

effective height of water in the trap (h) which prevents the passage of foul air (see figure 2)

3.18

domestic wastewater

non-faecal wastewater discharged from appliances in kitchens, laundry rooms, lavatories, bathrooms and similar facilities

3.19

industrial wastewater

wastewater resulting wholly or partially from any industrial or commercial activity

3.20

sheet floor covering

flexible watertight finished layer for floors affixed to the flange by bonding and/or by means of a clamping ring

3.21

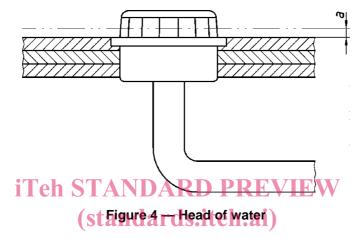
membrane

watertight and/or damp proof layer attached to the gully either in the floor or on the floor or roof

3.22

head of water

distance a of a water line over the spill edge of the gully as shown in figure 4



3.23 siphonic drainage system

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system for drainage of rainwater in which the outlets and pipework enable the system to flow completely full under design conditions and make use of the total height available between the outlets and the point of change to partially filled flow

4 Loading strength

Gullies are classified by loading strength, when tested in accordance with prEN 1253-2:2002, clause 4 into following classes: H 1,5, K 3, L 15, M 125.

Gullies not accessible to either vehicular or foot traffic or not required to withstand external loads are not classified.