

# SVENSK STANDARD

## SS-EN 1253-1:2015

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### **Avlopp – Brunnar för byggnader – Del 1: Golvbrunnar med vattenlås med minst 50 mm vattenlåsdjup**

### **Gullies for buildings – Part 1: Trapped floor gullies with a depth water seal of at least 50 mm**



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Denna standard ersätter SS-EN 1253-1, utgåva 2 och SS-EN 1253-2:2004, utgåva 2.

The European Standard EN 1253-1:2015 has the status of a Swedish Standard. This document contains the official version of EN 1253-1:2015.

This standard supersedes the Swedish Standard SS-EN 1253-1, edition 2 and SS-EN 1253-2:2004, edition 2.

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EUROPEAN STANDARD

**EN 1253-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2015

ICS 91.140.80

Supersedes EN 1253-1:2003, EN 1253-2:2003

English Version

## Gullies for buildings - Part 1: Trapped floor gullies with a depth water seal of at least 50 mm

Avaloirs et siphons pour bâtiments - Partie 1 : Siphons de sol avec garde d'eau de 50 mm minimum

Abläufe für Gebäude - Teil 1: Bodenabläufe mit Geruchverschluss mit einer Geruchverschlusshöhe von mindestens 50 mm

This European Standard was approved by CEN on 22 November 2014.

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 1253-1:2015) has been prepared by Technical Committee CEN/TC 165 "Waste water 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 July 2015 and conflicting national standards shall be withdrawn at the latest by July 2015.

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.

This document, together with EN 1253-2:2015, supersedes EN 1253-1:2003 and EN 1253-2:2003.

This is the first part of EN 1253, a series of standards relating to floor gullies, roof drains and access covers for drainage systems inside buildings. The EN 1253 series under the main title *Gullies for buildings* will actually consist of the following parts:

- *Part 1: Trapped floor gullies with a depth water seal of at least 50 mm;*
- *Part 2: Roof drains and floor gullies without trap;*
- *Part 3: Evaluation of conformity;*
- *Part 4: Access covers;*
- *Part 5: Gullies with light liquids closure.*

Since the latest versions of EN 1253-1 and EN 1253-2, the most significant technical changes are the following:

- a) reduction of scope on trapped floor gullies with a depth of water seal of at least 50 mm for use in gravity drainage systems;
- b) more definitive description of products;
- c) modification of terms and definitions;
- d) precision in definition of places of installation;
- e) consideration of liquid applied membranes as connecting components;
- f) precision of test conditions for flow rate testing;
- g) revision of loading test concerning test loads, loading speed as well as shape, size and point of impact of test blocks in dependence on different configuration of gratings;
- h) revision of tightness tests for products for use with sheet floor coverings, membranes and liquid applied membranes.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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.

## SS-EN 1253-1:2015 (E)

### 1 Scope

This European Standard classifies floor gullies for use inside buildings, gives guidance for places of installation and specifies requirements for the construction, design, performance and marking of factory made gullies for buildings, irrespective of the material, for use in drainage systems requiring a trap with a depth of water seal of at least 50 mm (further: floor gullies).

Although normally used to convey domestic wastewater, these floor gullies may convey other wastewater, e.g. industrial wastewater, provided there is no risk of damage to components or of injury to health.

This European Standard does not apply to:

- linear drainage channels as specified in EN 1433,
- gully tops and manhole tops which are specified in EN 124,
- roof drains and floor gullies without trap as specified in EN 1253-2.

### 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 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 drains and sewers*

EN 1253-3, *Gullies for buildings - Part 3: Evaluation of conformity*

### 3 Terms and definitions

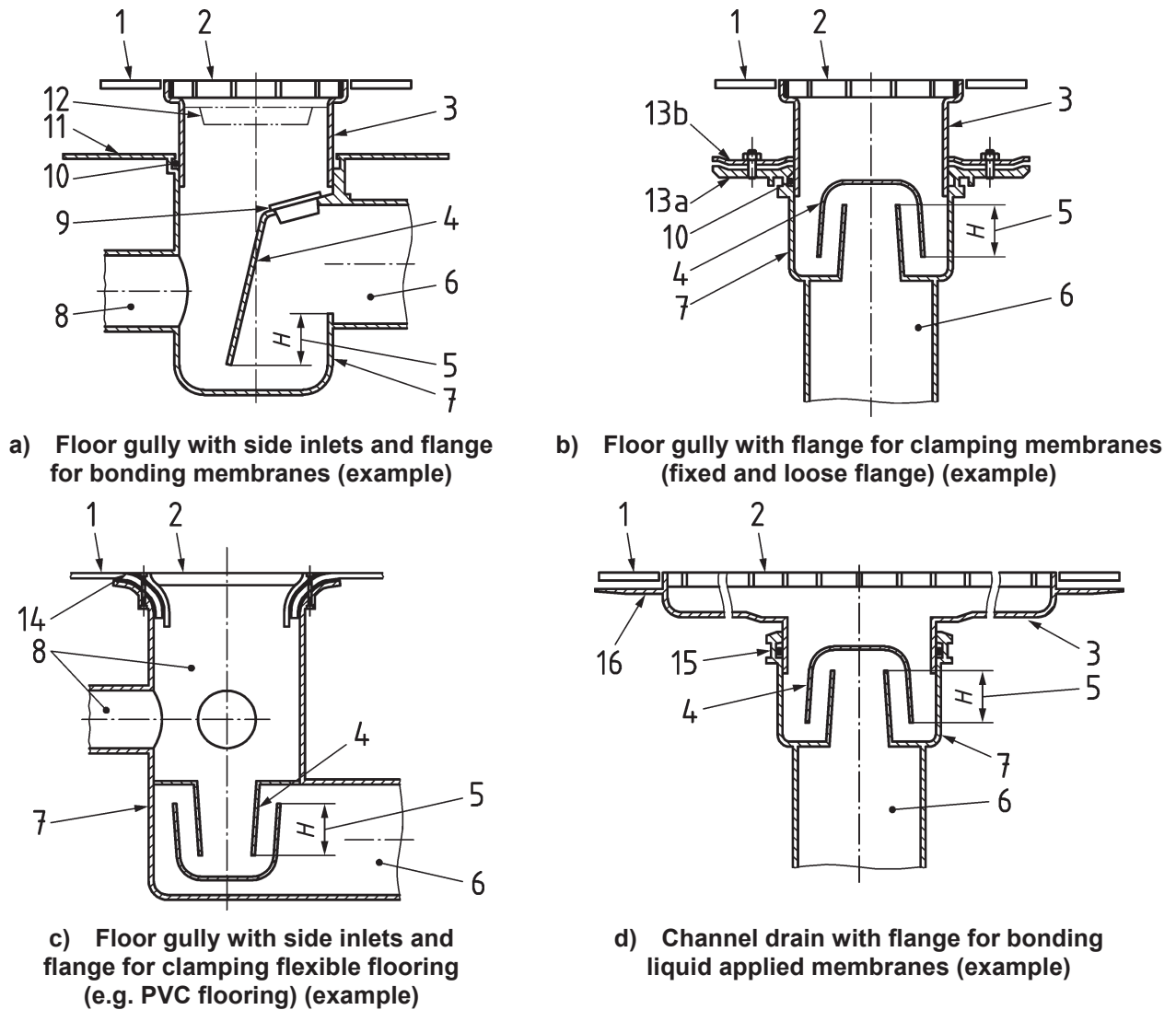
For the purposes of this document, the following terms and definitions apply.

**3.1**  
**trapped floor gully**  
discharge fitting the top of which is a grating or cover capable of installation at ground or floor level, intended to receive wastewater either through apertures in the grating and/or from side inlets and/or channels joined to the body of the gully and to drain that wastewater through the outlet

Note 1 to entry: See Figure 1.

Note 2 to entry: In this European Standard, the term trapped "floor gully" includes linear products, such as channel drains.





**Key**

- |   |                                       |    |  |
|---|---------------------------------------|----|--|
| 1 | finished floor                        | 10 | weep hole  |
| 2 | grating/cover                         | 11 | flange for bonding membranes                               |
| 3 | extension                             | 12 | sediment bucket  |
| 4 | trap                                  | 13 | connecting flange with counter flange                      |
| 5 | depth of water seal ( $H \geq 50$ mm) | a  | fixed flange   |
| 6 | outlet                                | b  | loose flange   |
| 7 | body                                  | 14 | flange for clamping flexible flooring with a clamping ring |
| 8 | side inlet                            | 15 | seal   |
| 9 | access for cleaning                   | 16 | flange for bonding liquid applied membrane                 |

**Figure 1 — Types of floor gullies**

**3.2**

**grating**

removable component with apertures which permits the discharge of water

**3.3**

**frame**

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

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- 3.4**  
**cover**  
removable part of an access cover which covers the opening
- 3.5**  
**body**  
part of a floor gully below or in the floor on which the grating/frame/extension is mounted, and to which the pipework is connected
- 3.6**  
**extension**  
component used to adjust the height of a grating or cover above a body
- 3.7**  
**joint**  
connection between the adjacent ends of two components including the means of sealing
- 3.8**  
**membrane clamping ring**  
component used to clamp a membrane or a sheet floor covering to a body or extension
- 3.9**  
**connecting flange**  
separate or an integral part of a body or of an extension which receives a membrane or sheet floor covering
- 3.10**  
**external diameter**  
**OD**  
mean external diameter of the pipe barrel at any cross section
- 3.11**  
**internal diameter**  
**ID**  
mean internal diameter of the pipe barrel at any cross section
- 3.12**  
**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
- 3.13**  
**depth of water seal**  
effective height of water in the trap ( $H$ ) which prevents the passage of foul air

Note 1 to entry: See Figure 1.

- 3.14**  
**domestic wastewater**  
water polluted by the human life, including water discharged from kitchens, laundry rooms, lavatories, bathrooms, toilets and similar facilities

[SOURCE: EN 16323:2014, 2.1.2.3]

- 3.15**  
**industrial wastewater**  
wastewater discharge resulting from any industrial or commercial activity

[SOURCE: EN 16323:2014, 2.1.2.7]

**3.16**

**sheet floor covering**

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

**3.17**

**membrane**

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

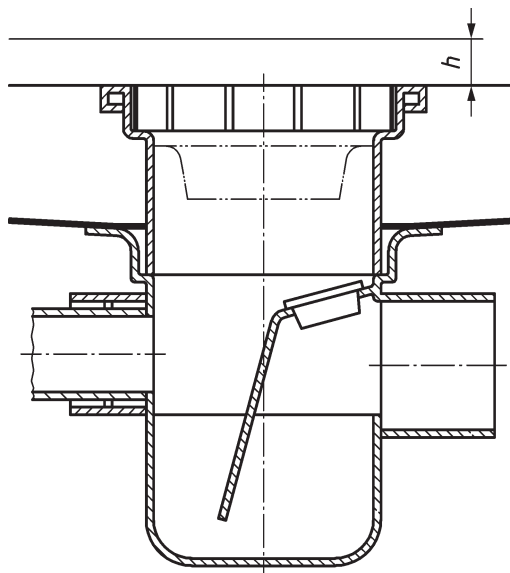
**3.18**

**head of water**

depth  $h$  of a water line over the frame of the floor gully

Note 1 to entry: See Figure 2.

Note 2 to entry: For floor gullies without frame, the depth of water line is the lowest level over the finished floor.



**Key**

$h$  head of water

**Figure 2 — Head of water for floor gullies**

**3.19**

**outlet**

male or female connection to the discharge pipe

**3.20**

**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

**3.21**

**clear opening**

**CO**

diameter of the largest circle that can be inscribed within the unsupported area of the grating