



SLOVENSKI STANDARD

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**Pokrovi za odtoke in jaške na vozni površini in površini za pešce - 2. del:
Pokrovi za odtoke in jaške iz litega železa**

Gully tops and manhole tops for vehicular and pedestrian areas - Part 2: Gully tops and manhole tops made of cast iron

Aufsätze und Abdeckungen für Verkehrsflächen - Teil 2: Aufsätze und Abdeckungen aus Gusseisen

Dispositifs de couronnement et de fermeture pour les zones de circulation utilisées par les piétons et les véhicules - Partie 2: Dispositifs de couronnement et de fermeture en fonte

Ta slovenski standard je istoveten z: EN 124-2:2015

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| 93.080.30 | Cestna oprema in pomožne naprave | Road equipment and installations |
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EUROPEAN STANDARD

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Gully tops and manhole tops for vehicular and pedestrian areas - Part 2: Gully tops and manhole tops made of cast iron

Dispositifs de couronnement et de fermeture pour les zones
de circulation utilisées par les piétons et les véhicules -
Partie 2: Dispositifs de couronnement et de fermeture en
fonte

Aufsätze und Abdeckungen für Verkehrsflächen - Teil 2:
Aufsätze und Abdeckungen aus Gusseisen

This European Standard was approved by CEN on 12 March 2015.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 124-2:2015) has been prepared by 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of an identical text or by endorsement, at the latest by December 2015 and conflicting national standards shall be withdrawn at the latest by March 2017.

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.

Together with EN 124-1:2015, EN 124-3:2015, EN 124-4:2015, EN 124-5:2015 and EN 124-6:2015, this document supersedes EN 124:1994.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the Regulation (EU) No. 305/2011.

For relationship with EU Regulation(s), see informative Annex ZA, which is an integral part of this document.

EN 124, *Gully tops and manhole tops for vehicular and pedestrian areas*, consists of the following parts:

- *Part 1: Definitions, classification, general principles of design, performance requirements and test methods;*
- *Part 2: Gully tops and manhole tops made of cast iron;*
- *Part 3: Gully tops and manhole tops made of steel or aluminium alloys;*
- *Part 4: Gully tops and manhole tops made of steel reinforced concrete;*
- *Part 5: Gully tops and manhole tops made of composite materials;*
- *Part 6: Gully tops and manhole tops made of polypropylene (PP), polyethylene (PE) or unplasticized poly(vinyl chloride) (PVC-U).*

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.

EN 124-2:2015 (E)**1 Scope**

This European Standard is applicable to gully tops and manhole tops made of flake graphite cast iron and/or spheroidal graphite cast iron whether in combination with concrete or not, with a clear opening up to and including 1 000 mm for covering gullies, manholes and inspection chambers for installation within areas subjected to pedestrian and/or vehicular traffic.

It is applicable to manhole tops and gully tops for use in

- areas which can only be used by pedestrians and pedal cyclists (at least class A 15),
- pedestrian areas and comparable areas, car parks or car parking decks (at least class B 125),
- the area of kerbside channels of roads which, when measured from the kerb edge, extends a maximum of 0,5 m into the carriageway and a maximum of 0,2 m into the pedestrian area (at least class C 250),
- carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles (at least class D 400),
- areas imposing high wheel loads, e.g. docks, aircraft pavements (at least class E 600),
- areas imposing particularly high wheel loads, e.g. aircraft pavements (class F 900).

This European Standard is not applicable in isolation but only in combination with EN 124-1 and gives guidance for combinations of covers/grating made of cast iron with frames according to EN 124-3, EN 124-4, EN 124-5 or EN 124-6.

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This European Standard is not applicable to:

- cover fillings installed on site, e.g. concrete, paving blocks, etc.;
- concave gratings for class D 400 installed in carriageways of roads or hard shoulders and concave gratings for classes F 900 and E 600;
- gratings/covers as part of prefabricated drainage channels according to EN 1433;
- floor and roof gullies in buildings which are specified in EN 1253 (all parts); and
- surface boxes.

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 124-1:2015, *Gully tops and manhole tops for vehicular and pedestrian areas — Part 1: Definitions, classification, general principles of design, performance requirements and test methods*

EN 124-3:2015, *Gully tops and manhole tops for vehicular and pedestrian areas — Part 3: Gully tops and manhole tops made of steel or aluminium alloys*

EN 124-4:2015, *Gully tops and manhole tops for vehicular and pedestrian areas — Part 4: Gully tops and manhole tops made of steel reinforced concrete*

EN 124-5:2015, *Gully tops and manhole tops for vehicular and pedestrian areas — Part 5: Gully tops and manhole tops made of composite materials*

EN 124-6:2015, *Gully tops and manhole tops for vehicular and pedestrian areas — Part 6: Gully tops and manhole tops made of polypropylene (PP), polyethylene (PE) or unplasticized poly(vinyl chloride) (PVC-U)*

EN 206:2013, *Concrete — Specification, performance, production and conformity*

EN 1561, *Founding — Grey cast irons*

EN 1563, *Founding — Spheroidal graphite cast irons*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 124-1:2015 apply.

4 Materials

4.1 General

Manhole tops and gully tops according to this European Standard shall be made from the materials listed below.

- a) flake graphite cast iron according to EN 1561,
- b) spheroidal graphite cast iron according to EN 1563,
- c) one of the materials a) and b) combined with concrete with a minimum compressive strength class of C35/45.

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Any element made of the materials specified in 4.1 a) to c) can be used in combination with elements of materials specified in EN 124-3, EN 124-4, EN 124-5 or EN 124-6. In such cases the manhole tops or gully tops shall comply with the relevant design and performance and testing requirements as listed in Table 1.

In addition elements shall comply with the requirements for the material related to EN 124-3, EN 124-4, EN 124-5 or EN 124-6, as applicable. Each element shall be marked accordingly. The class to be declared for the combined product shall be restricted to the lower class determined for any constituent element according to the relevant part of EN 124 series.

EXAMPLE Where a cover is made of cast iron, class D 400, and the frame is made of PVC-U, class B 125, the manhole top or gully top is marked with EN 124-2, and the class to be declared for the combined product is the class of the frame according to EN 124-6.

4.2 Coating materials

Manhole tops and gully tops made of cast iron can be supplied uncoated or coated. Coating materials shall comply with the environmental and/or toxicological regulations at the place of intended use.

NOTE In general, coatings are for aesthetic purposes only and are not regarded as a corrosion protection system. The specifier or client may require a more durable coating if appropriate.

4.3 Cover fillings

In the case of covers placed on the market in filled condition the filling shall consist of either:

- a) concrete with a minimum compressive strength class of C35/45 according to EN 206:2013 at least suitable for use in “cyclic wet and dry” conditions, or

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- b) other material complying with the intended use/place of installation expectations and with appropriate relevant European Standards at least suitable for use in “cyclic wet and dry” conditions.

5 Requirements

5.1 Design and performance requirements

Manhole tops and gully tops made of materials according to 4.1 shall comply with the relevant design and performance and testing requirements in accordance with EN 124-1:2015 as listed in Table 1.

Table 1 — Design, performance and testing requirements in accordance with EN 124–1 for gully tops and manhole tops made of cast iron

| Characteristic | Requirements acc. to EN 124-1: 2015, Clause | Testing acc. to EN 124-1: 2015, Clause | Relevant for class | | | | | |
|---|---|--|--------------------|-------|-------|-------|-------|-------|
| | | | A 15 | B 125 | C 250 | D 400 | E 600 | F 900 |
| Related to the design | | | | | | | | |
| Vents in covers | 6.1 | 8.4.1 | x | x | x | x | x | x |
| Clear opening of manhole tops for man entry | 6.2 | 8.4.2 | x | x | x | x | x | x |
| Depth of insertion | 6.3 | 8.4.3 | – | – | – | x | x | x |
| Clearance | 6.4 | 8.4.4 | x | x | x | x | x | x |
| Compatibility of seatings | 6.5 | 8.4.5 | – | – | – | x | x | x |
| Handling of covers and gratings | 6.7 | 8.4.7 | x | x | x | x | x | x |
| Slot dimensions of gratings | 6.8 | 8.4.8 | x | x | x | x | x | x |
| Dirt pans and dirt buckets | 6.9 | 8.4.9 | x | x | x | x | x | x |
| Positioning of covers and gratings | 6.10 | 8.4.10 | x | x | x | x | x | x |
| Flatness of manhole covers and gratings | 6.11 | 8.4.11 | – | – | – | x | x | x |
| Concaveness of gratings | 6.12 | 8.4.12 | x | x | x | x | x | x |
| Surface conditions | 6.13 | 8.4.13 | x | x | x | x | x | x |
| Manhole tops with sealing features | 6.14 | Visual inspection of presence of anchors | x | x | x | x | x | x |
| Frame bearing area | 6.15 | 8.4.14 | x | x | x | x | x | x |
| Frame depth | 6.16 | 8.4.15 | – | – | – | x | x | x |
| Opening angle of hinged covers/gratings | 6.17 | 8.4.16 | x | x | x | x | x | x |
| Appearance | 7.1 | Visual inspection | x | x | x | x | x | x |
| Related to the performance | | | | | | | | |
| Load bearing capacity | 7.2 | 8.3 | x | x | x | x | x | x |
| Permanent set | 7.3 | 8.2 | x | x | x | x | x | x |
| Securing of the cover/ grating within the frame | 6.6 | 8.4.6 | x | x | x | x | x | x |
| Skid resistance | 7.4 | 8.4.13 | x | x | x | x | x | x |
| Child safety | 7.5 | 8.5 | x | x | x | x | x | x |
| x To be applied. | | | | | | | | |

5.2 Covers with fillings

When tested in accordance with EN 124-1:2015, Clause 8, covers placed on the market filled with concrete or other filling materials and covers designed to be filled subsequently and placed on the market unfilled shall comply with the requirements in accordance with Clause 4 and Clause 5.

Covers placed on the market unfilled and designed to be filled subsequently shall be filled in accordance with the manufacturer's instructions for filling. The manufacturer's instructions shall be supplied with the product and shall include all information for the filling procedure.

Filling materials used after the manhole top or gully top with an unfilled cover has been placed on the market, are subject to selection by the specifier or client. Their performance in service and their durability should be controlled to comply with the intended use/place of installation expectations, and with appropriate relevant European Standards. If freeze-thaw resistance is required, covers filled with concrete shall meet the freeze-thaw requirements in accordance with EN 124-4.

5.3 Material-specific characteristics for gully tops and manhole tops made of cast iron

5.3.1 Reaction to fire

Where use of manhole tops and gully tops in accordance with this standard is subject to national regulatory requirements on reaction to fire, their reaction to fire performance shall be declared. Manhole tops and gully tops made of cast iron are classified as Class A1 without the need for testing (CWT), in accordance with the relevant Commission Decision¹⁾.

NOTE 1 Cast iron, as homogeneously distributed materials for these products (whether in combination with concrete or not), is considered as material of known and stable performance with respect to the reaction to fire performance as it does not consist of any organic material and consequently does not contribute to fire. Under these conditions, it can be considered as Class A1 material.

NOTE 2 The class of reaction to fire performance of manhole tops and gully tops made of cast iron is regarded as the class for the constituent material (i.e. cast iron).

Conversely, where the use of manhole tops and gully tops is not subject to national regulatory requirements on reaction to fire, either the Class A1 (see above) or "No Performance Determined" (NPD) may be declared.

NOTE 3 Where the compatibility of seatings is achieved by the use of cushioning inserts, only a negligible area of the cushioning insert material would be exposed to fire, considering the end use situation. There is no relevance in relation to the reaction to fire performance and embedded cushioning inserts would not be able to ignite or to propagate fire there. Their contribution to fire spread is not of concern, nor is an influence expected on the fire behaviour of the neighbouring material and the contribution to fire propagation is negligible. Considering these aspects, separate testing and classification of cushioning inserts is not necessary.

5.3.2 Durability

5.3.2.1 General

Cast iron as defined in 4.1 is a stable and durable material with a sufficient corrosion resistance with respect to their application within the scope of this standard. No further material tests are required for material durability.

The durability of gully tops and manhole tops manufactured from cast iron will depend upon design features and exposure conditions (see EN 124-1:2015, 5.1). The materials specified in Clause 4 and the prescribed framework of requirements and test methods for the mandated performance characteristics according to Clause 5 will also reflect the durability of manhole tops and gully tops.

1) See Decision of the Commission 96/603/EC of 1996-10-04 (see OJEU L 267 of 1996-10-19), as amended twice by 2000/605/EC of 2000-09-26 (see OJEU L 258 of 2000-10-12) and by 2003/424/EC of 2003-06-06 (see OJEU L 144 of 2003-06-12).

EN 124-2:2015 (E)**5.3.2.2 Durability of load bearing capacity**

Durability of load bearing capacity against mechanical failure is ensured by meeting the requirements of EN 124-1:2015, 7.2 and 7.3. The proportion between test load and maximum load to be expected in service and in conjunction with the stable behaviour of the material specified in Clause 4 covers all effects which could influence the durability of the load bearing capacity.

5.3.2.3 Durability of securing of covers/gratings within the frame

Durability of securing of covers/gratings in the frame against unintended lifting is ensured by using materials with proven resistance against corrosion and passing the test according to EN 124-1:2015, 8.4.6.

5.3.2.4 Durability of skid resistance

Durability of skid resistance against loss of grip is ensured by meeting the requirements of EN 124-1:2015, 7.4, in conjunction with the stable resistance of the material itself against loss of grip.

5.3.2.5 Durability of effectiveness of child safety characteristics

Durability of the child safety characteristics concerning the resistance of manhole tops and gully tops against the removal by children is ensured by re-inspecting the weight or the locking accessory or the securing feature, as appropriate, is still functional after testing the securing in accordance with EN 124-1:2015, 8.4.6.

5.3.3 Dangerous substances

National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets. In the absence of European harmonized test methods, verification and declaration on release/content should be done taking into account national provisions in the place of use.

6 Testing

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Gully tops and manhole tops according to this standard shall be tested as complete units in the position of their intended use where the cover/grating is suitably positioned within the frame in accordance with EN 124-1:2015, Clause 8, as listed in Table 1.

Gully tops and manhole tops consisting of covers with fillings or covers designed to be filled subsequently, shall be tested as follows:

- a) Covers placed on the market filled with concrete or other filling materials shall be tested in filled condition.
- b) Covers placed on the market unfilled shall be tested without filling.

All tested products shall be visually inspected without magnification.

7 Assessment and verification of constancy of performance - AVCP**7.1 General**

The compliance of gully tops and manhole tops with the requirements of this standard and with the performances declared by the manufacturer in the DoP shall be demonstrated by:

- determination of the product type on the basis of type testing;
- factory production control by the manufacturer including product assessment.

The manufacturer shall always retain the overall control and shall have the necessary means to take responsibility for the conformity of the product with its declared performance(s).

7.2 Type testing

7.2.1 General

All performances related to characteristics included in this standard shall be determined when the manufacturer intends to declare the respective performances unless the standard gives provisions for declaring them without performing tests (e.g. use of previously existing data, classified without further testing (CWFT) and conventionally accepted performance).

Assessment previously performed in accordance with the provisions of this standard, may be taken into account provided that they were made to the same or a more rigorous test method, under the same AVCP system on the same product or products of similar design, construction and functionality, such that the results are applicable to the product in question.

NOTE 1 Same AVCP system means testing by an independent third party, when relevant, under the responsibility of a notified product certification body, when relevant.

For the purposes of assessment, the manufacturer's products may be grouped into families, where it is considered that the results for one or more characteristics from any one product within the family are representative for the same characteristics for all products within the same family.

NOTE 2 Products can be grouped in different families for different characteristics.

Reference to the assessment method standards should be made to allow the selection of a suitable representative sample.

In addition, the determination of the product type shall be performed for all characteristics included in the standard for which the manufacturer declares the performance

- at the beginning of the production of a new or modified gully top and manhole top (unless a member of the same product range); or
- at the beginning of a new or modified method of production (where this can affect the stated properties); or
- they shall be repeated for the appropriate characteristic(s), whenever a change occurs in the gully top or manhole top design, in the raw material or in the supplier of the components, or in the method of production (subject to the definition of a family), which would affect significantly one or more of the characteristics.

Where components are used whose characteristics have already been determined, by the component manufacturer, on the basis of assessment methods of other product standards, these characteristics need not be re-assessed. The specifications of these components shall be documented.

Products bearing regulatory marking in accordance with appropriate harmonized European specifications may be presumed to have the performances declared in the DoP, although this does not replace the responsibility on the manhole tops and gully tops manufacturer to ensure that the manhole tops and gully tops as a whole are correctly manufactured and its component products have the declared performance values.

7.2.2 Test samples, testing and compliance criteria

The number of samples of gully tops and manhole tops to be tested/assessed shall be in accordance with Table 2. Characteristics for which the performance is to be declared are written in **bold** letters.

Table 2 — Number of samples to be tested and compliance criteria

| Characteristic | Requirement | Assessment method | No of samples ^a | Compliance criteria in accordance with |
|--|-------------|--|----------------------------|--|
| for the declared performance: | | | | |
| Reaction to fire | 5.3.1 | Classified without testing (CWT) | – | EN 124-2:2015, 5.3.1, Class A1 |
| Frame bearing area | 5.1 | EN 124-1:2015, 8.4.14 | 3 | EN 124-1:2015, 6.15, calculated value $P_b \leq 7,5 \text{ N/mm}^2$ |
| Load bearing capacity | 5.1 | EN 124-1:2015, 8.3 | 3 | EN 124-1:2015, 7.2, test load for the declared class |
| Permanent set | 5.1 | EN 124-1:2015, 8.2 | 3 | EN 124-1:2015, 7.3, permissible value for the declared class |
| Securing of the cover/grating within the frame | 5.1 | EN 124-1:2015, 8.4.6 | 3 | EN 124-1:2015, 6.6, declared method and either weight in kg or value F_V in kN and appropriate h in mm, as applicable |
| Child safety | 5.1 | EN 124-1:2015, 8.5 | 3 | EN 124-1:2015, 7.5, declared method or weight |
| Skid resistance of | | | | |
| a) Covers with | | | | |
| — concrete surface | 5.1 | EN 124-1:2015, 8.4.13 a) | 3 | EN 124-1:2015, 7.4.2 a), declared as “concrete surface” for the material used |
| — raised pattern | | EN 124-1:2015, 8.4.13 b) | 3 | EN 124-1:2015, 7.4.2 b), declared as “raised pattern” |
| — other surface | | EN 124-1:2015, 8.4.13 c) | 3 | EN 124-1:2015, 7.4.2 c), for the calculated and declared value of USRV |
| b) Gratings | 5.1 | EN 124-1:2015, 8.4.13 b) | 3 | EN 124-1:2015, 7.4.3, declared as “raised pattern” for the specified raised pattern or “slots” for the measured slot dimensions |
| c) Frames with max. horizontal visible width of: — $\leq 40 \text{ mm}$, or — $> 40 \text{ mm}$ | 5.1 | EN 124-1:2015, 7.4.4 | 3 | EN 124-1:2015, 7.4.2, determined acc. to the requirement clause and expressed as — “NPD” for $\leq 40 \text{ mm}$ or — method or value for $> 40 \text{ mm}$ |
| Durability of: | | | | |
| — load bearing capacity ^b against mechanical failure | 5.3.2 | EN 124-1:2015, 8.2 EN 124-1:2015, 8.3 | 3 | EN 124-2:2015, 4.1, EN 124-1:2015, 7.2 and 7.3, declared as “Pass” according to the material used and the test method applied |
| — securing ^c against unintended lifting | 5.3.2 | EN 124-1:2015, 8.4.6 | 3 | EN 124-1:2015, 6.6, declared as “Pass” according to the material used and the test method applied |
| — skid resistance against loss of grip | 5.3.2 | EN 124-1:2015, 8.4.13 | 3 | EN 124-1:2015, 7.4, declared as “Pass” for the declared method and the material used and for USRV measured value declared |
| — effectiveness of child safety characteristics | 5.3.2 | EN 124-1:2015, 8.4.6 | 3 | EN 124-1:2015, 6.6, declared as “Pass” according to the material used and the method declared |