

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

The European Standard EN 124:1994 has the status of a British Standard

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This British Standard, having been prepared under the direction of Technical Committee B/505, Waste Water Engineering, was published under the authority of the Standards Board and comes into effect on 15 October 1994

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National foreword

This British Standard has been prepared under the direction of the Technical Committee B/505, Waste Water Engineering and is the English language version of EN 124:1994.

EN 124 was produced as a result of European discussion in which the UK took an active part. The UK voted against this standard at the Formal Vote stage but the analysis of voting, in accordance with clause 5.1 of the Common CEN/CENELEC Rules, resulted in a positive vote. In consequence the document was accepted as a European Standard.

EN 124:1994 is a revision of EN 124:1986.

This British Standard supersedes BS 497-1:1976, which will be withdrawn in due course.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 22, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Descriptors: Sanitation, water removal, gully tops, closing devices, traffic lanes, specifications, classifications, equipment
specifications, tests, quality control, marking

English version

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

Dispositifs de couronnement et de fermeture
pour les zones de circulation utilisées par les
piétons et les véhicules —
Principes de construction, essais types,
marquage, contrôle de qualité

Aufsätze und Abdeckungen für
Verkehrsflächen Baugrundsätze, Prüfungen,
Kennzeichnung, Gütebeurwachung

This European Standard was approved by CEN on 1994-06-06. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

The Technical Committee CEN/TC 77, Drainage equipment, was founded in 1973 and in the beginning it was concerned with general drainage equipment. As the tasks which had to be accomplished were revealed as being too extensive, the Committee was divided into the working groups, Drainage equipment inside buildings (WG 1), and Drainage equipment outside buildings (WG 2), and, finally, in 1980 two independent Technical Committees were created, i.e. CEN/TC 77, Drainage equipment (systems, design requirements, coordination) inside buildings, and CEN/TC 96, Drainage equipment outside buildings. In 1989 the two committees were put together again due to a draft mandate of the EEC and taking into account the new approach; the committee's number now is CEN/TC 165.

For the first edition of EN 124 published in 1986 the committee left certain requirements for later consideration. Also some other requirements, e.g. the selection of the class of the gully tops and manhole tops appropriate to the place of installation, could not be specified at that time.

In 1988 it was decided in CEN/TC 96 to revise the standard and to include the subject of certification. This and all the other requirements are now included in this revised version which was adopted by the TC 165 in 1993 but also at present the assignment of classes in relation to places of installation could only be given by a directive.

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 1994, and conflicting national standards shall be withdrawn at the latest by December 1994.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Switzerland, United Kingdom.

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1 Scope

This standard applies to gully tops and manhole tops with a clear opening up to and including 1 000 mm, for installation within areas subjected to pedestrian and/or vehicular traffic. This standard does not apply to surface boxes nor to floor and roof gullies in buildings which are specified in prEN 1253.

The purpose of this standard is to establish definitions, classes, materials, design and testing requirements, marking and quality control of gully tops and manhole tops.

2 Normative references

This European Standard incorporates by dated or undated references, 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.

ISO 185:1988, *Grey cast iron — Classification*.

ISO 1083:1987, *Spheroidal graphite cast iron — Classification*.

ISO 630:1980, *Structural steels*.

ISO 3755:1991, *Cast carbon steels for general engineering purposes*.

ISO 1459:1973, *Metallic coatings — Protection against corrosion by hot dip galvanizing — Guiding principles*.

ISO 1460:1992, *Metallic coatings — Hot dip galvanized coatings on ferrous materials — Gravimetric determination of the mass per unit area*.

ISO 1461:1973, *Metallic coatings — Hot dip galvanized coatings on fabricated ferrous products — Requirements*.

ISO 8062:1984, *Castings — System of dimensional tolerances*.

Euronorm 80:1985, *Reinforcing bars (not for prestressing); Technical delivery conditions*.

Euronorm 81:1969.03, *Hot rolled flat round reinforcing steel; dimension, mass, tolerances*.

Euronorm 82:1979.02, *Steel for the reinforcement of concrete with an improved bonding action; dimensions, mass, tolerances, general requirements*.

prEN 1253-1, *Gullies for buildings — Part 1: Requirements*.

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

EN 29002:1987, *Quality systems — Model for quality assurance in production and installation*.

3 Definitions

For the purposes of this standard the following definitions apply.

No.	Term	Definition
1	Gully	An assembly to receive surface water for discharge into a drainage system
2	Manhole	A chamber or access shaft to underground systems
3	Gully top	That part of a gully, consisting of a frame and grating and/or cover and which is placed on the gully pot at the place of installation
4	Manhole top	That part of a manhole consisting of a frame and a cover and/or a grating
5	Frame	The fixed part of a gully top or manhole top which receives and supports a grating and/or a cover
6	Grating	The movable part(s) of a manhole top or a gully top, which permits the passage of water through itself to the gully
7	Cover	The movable part(s) of a manhole top or a gully top which cover(s) the manhole or gully opening
8	Vent	An opening in the cover of a manhole top to provide ventilation
9	Dirt bucket	A removable component of a gully or a gully top which collects debris
10	Dirt pan	A removable component of a manhole or manhole top which collects debris
11	Seating	The surface on which the grating or the cover rests in the frame