

**Sõidukite ja jalakäijate alade
kuivenduskanalid . Klassifikatsioon,
kavandamise ja katsetamise nõuded,
märgistus ja vastavushindamine**

Drainage channels for vehicular and pedestrian areas - Classification, design and testing requirements, marking and evaluation of conformity

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1433:2003 sisaldab Euroopa standardi EN 1433:2002+AC:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1433:2003 consists of the English text of the European standard EN 1433:2002+AC:2004.</p> <p>This document is endorsed on 18.02.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies requirements for linear drainage channels for the collection and conveyance of surface water when installed within areas subjected to pedestrian and/or vehicular traffic</p>	<p>Scope: This European Standard specifies requirements for linear drainage channels for the collection and conveyance of surface water when installed within areas subjected to pedestrian and/or vehicular traffic</p>
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ICS 93.080.30

Võtmesõnad: appointments, buildings, classifications, dimensions, meteorology, precipitation (atmos, principles of construction, quality control, sample surveys, size, specifications, stress, surface water, surveillance (approval), testing, testing principles, water, water drain

ICS 93.080.30

English version

Drainage channels for vehicular and pedestrian areas - Classification, design and testing requirements, marking and evaluation of conformity

Caniveaux hydrauliques pour l'évacuation des eaux dans
les zones de circulation utilisées par les piétons et les
véhicules - Classification, prescriptions de conception et
d'essai, marquage et évaluation de la conformité

Entwässerungsrinnen für Verkehrsflächen - Klassifizierung,
Bau- und Prüfgrundsätze, Kennzeichnung und Beurteilung
der Konformität

This European Standard was approved by CEN on 9 October 2002.

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 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 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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents

	page
Foreword.....	5
1 Scope	5
2 Normative references	6
3 Terms and definitions.....	7
4 Classification.....	12
5 Places of installation for drainage channels.....	12
6 Materials.....	14
6.1 General.....	14
6.1.1 Drainage channels	14
6.1.2 Gratings and covers	14
6.1.3 Use of rolled steel	14
6.2 Production, quality and testing	15
6.2.1 Metallic materials	15
6.2.2 Concrete and synthetic resin concrete	15
6.3 Additional requirements.....	15
6.3.1 Welding of rolled steel.....	15
6.3.2 Stainless steel	15
6.3.3 Precast concrete	16
6.3.4 Synthetic resin concrete	16
6.3.5 Concrete with fibre	17
7 Design and manufacturing requirements.....	17
7.1 General.....	17
7.2 Dimensions and dimensional tolerances	18
7.3 Geometric design.....	18
7.4 Gradient	19
7.5 Jointing of drainage channel units	19
7.5.1 Watertightness	19
7.5.2 Step of invert	19
7.6 Depth of insertion of gratings and covers	19
7.7 Seating	19
7.8 Trafficked edge and contact surface protection.....	19
7.9 Securing of gratings or cover.....	20
7.10 Dimensions of inlet openings.....	20
7.10.1 Straight slots	20
7.10.2 Slots in other shapes.....	21
7.10.3 Other inlet openings	21
7.11 Dirt buckets	22
7.12 Correct positioning of gratings and covers	22
7.13 Surface condition.....	22
7.14 Opening angle of hinged gratings and covers	22
7.15 Strength testing.....	23
7.15.1 Channel bodies	23
7.15.2 Gratings and covers	23
7.16 Permanent set	24
7.17 Recommendations for installation	24
8 Marking	25
8.1 Marking of gratings and covers.....	25
8.2 Marking of channel bodies.....	25

9	Testing	26
9.1	Loading test.....	26
9.1.1	Test loads	26
9.1.2	Test apparatus	26
9.1.3	Preparation for the test	27
9.1.4	Test procedure.....	28
9.2	Materials	29
9.2.1	Precast concrete.....	29
9.2.2	Synthetic resin concrete	30
9.2.3	Concrete with fibre	32
9.3	Design requirements	32
9.3.1	General inspection.....	32
9.3.2	Dimensions.....	32
9.3.3	Discharge cross section (see 7.3).....	32
9.3.4	Gradient (see 7.4).....	32
9.3.5	Discharge openings/connecting openings (see 7.3).....	33
9.3.6	Jointing of channel units (see 7.5).....	33
9.3.7	Depth of insertion of gratings and covers (see 7.6).....	33
9.3.8	Seating (see 7.7).....	33
9.3.9	Trafficked edge protection (see 7.8 and 6.1).....	33
9.3.10	Securing of a grating and/or cover in a grid unit (see 7.9).....	33
9.3.11	Dimensions of inlet openings (see 7.10).....	33
9.3.12	Dirt buckets (see 7.11).....	34
9.3.13	Correct positioning of gratings and covers (see 7.12)	34
9.3.14	Surface condition (see 7.13).....	34
9.3.15	Opening angle of hinged gratings and covers (see 7.14).....	34
9.4	Marking (see clause 8)	34
9.5	Type testing.....	34
9.6	Routine loading test	34
10	Evaluation of Conformity	35
10.1	General.....	35
10.2	Type testing (initial testing of the product).....	35
10.3	Factory production control to be carried out by the manufacturer (internal quality control)	35
10.4	Non-conforming products	36
11	Installation	36
Annex A (normative) Model procedure of internal quality control		37
Annex B (normative) Supplementary requirements for concrete products submitted to very severe freeze-thaw conditions with standing water containing de-icing salts.....		44
B.1	Scope.....	44
B.2	Conditions of application	44
B.3	Resistance to freeze-thaw with de-icing salts.....	44
B.4	Marking.....	44
Annex C (normative) Determination of freeze/thaw resistance with de-icing salt		45
C.1	Principle	45
C.2	Sampling	45
C.3	Materials.....	45
C.4	Apparatus.....	45
C.5	Preparation of test specimens.....	46
C.6	Procedure.....	47
C.7	Expression of test results	49
C.8	Test report.....	49
Annex D (informative) Inspection control, carried out by a third party certification body (third party control).....		50
D.1	Purpose and procedure of third party inspection	50
D.2	Report by the third party	51
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive.....		52

Bibliography58

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Foreword

This document (EN 1433:2002) 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 May 2003, and conflicting national standards shall be withdrawn at the latest by August 2004.

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 EU Directive(s).

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

Annexes A, B and C are normative. Annex D is informative.

This document specifies the application and use of drainage channels both as single or multi-part assemblies. An assembly is defined as a single unit and can be used in conjunction with other similar units to provide a drainage system. Guidance is given on the location of units, the strength of the units and appropriate grating or cover. Fittings and other special adapters are excluded from the scope of this standard.

Installation does not form part of this standard but can form part of a future related standard. Drainage channels are installed so that sufficient support is provided to enable them to withstand proposed service loads.

Due regard has been taken of formalized Quality Assurance Systems and this standard details those specific and relevant quality control activities necessary for both manufacturer and external assessors (if applicable).

This standard specifies materials currently used in the manufacture of drainage channels. However, with some materials there are limited data currently available.

Rainwater forms the main application of drainage channels. Other liquids can be carried, subject to correct selection of the drainage channel.

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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies requirements for linear drainage channels for the collection and conveyance of surface water when installed within areas subjected to pedestrian and/or vehicular traffic.

These channels are defined as either Type I, which requires no further support or Type M, which requires additional support to accommodate the vertical and horizontal loads in service, in accordance with the manufacturers' recommendations.

This standard specifies requirements for gratings and covers integral with a linear drainage system. This standard applies to grid units, slot units and kerb units up to a clear opening of 1 000 mm.

This standard specifies definitions, classes, design and testing requirements, marking and quality control for drainage channels.

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 1169, *Precast concrete products — General rules for factory production control of glass-fibre reinforced cement.*

EN 1170-5, *Precast concrete products — Test methods for glass-fibre reinforced cement — Part 5: Measuring bending strength, "Complete bending test" method.*

EN 1563, *Founding — Spheroidal graphite cast irons.*

ENV 10080, *Steel for the reinforcement of concrete - Weldable ribbed reinforcing steel B 500 — Technical delivery conditions for bars, coils and welded fabric.*

EN 10088-1, *Stainless steels — Part 1: List of stainless steels.*

EN 10088-2, *Stainless steels — Part 2: Technical delivery conditions for sheet/plate and strip for general purposes.*

EN 10088-3, *Stainless steels — Part 3: Technical delivery conditions for semi-finished products, bars, rods and sections for general purposes.*

EN 10142, *Continuously hot-dip zinc coated low carbon steels strip and sheet for cold forming — Technical delivery conditions.*

EN 10214, *Continuously hot-dip zinc-aluminium (ZA) coated steel strip and sheet — Technical delivery conditions.*

EN 10215, *Continuously hot-dip aluminium-zinc (AZ) coated steel strip and sheet — Technical delivery conditions.*

EN 12163, *Copper and copper alloys — Rod for general purposes.*

EN ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines (ISO 7500-1:1999).*

ISO 185, *Grey cast iron — Classification.*

ISO 630, *Structural steels — Plates, wide flats, bars, sections and profiles.*

ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles — Specifications and test methods.*

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

ISO 4012, *Concrete — Determination of compressive strength of test specimens.*

ISO 8062, *Castings — System of dimensional tolerances and machining allowances.*