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Standards

Irish Standard
I.S. EN 13598-1:2020

Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 1: Specifications for ancillary fittings and shallow chambers

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I.S. EN 13598-1:2020

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National Foreword

I.S. EN 13598-1:2020 is the adopted Irish version of the European Document EN 13598-1:2020, Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 1: Specifications for ancillary fittings and shallow chambers

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EUROPEAN STANDARD

EN 13598-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 23.040.05; 23.040.20; 93.030

Supersedes EN 13598-1:2010

English Version

Plastics piping systems for non-pressure underground
drainage and sewerage - Unplasticized poly(vinyl chloride)
(PVC-U), polypropylene (PP) and polyethylene (PE) - Part
1: Specifications for ancillary fittings and shallow
chambers

Systèmes de canalisations en plastique pour les
branchements et les collecteurs d'assainissement
enterrés sans pression - Poly(chlorure de vinyle) non
plastifié (PVC-U), polypropylène (PP) et polyéthylène
(PE) - Partie 1: Spécifications relatives aux raccords
auxiliaires et aux boîtes d'inspection de branchement
peu profondes

Kunststoff-Rohrleitungssysteme für erdverlegte
drucklose Abwasserkanäle und -leitungen -
Weichmacherfreies Polyvinylchlorid (PVC-U),
Polypropylen (PP) und Polyethylen (PE) - Teil 1:
Anforderungen an Schächte und Zubehörteile und
flache Kammern

This European Standard was approved by CEN on 14 March 2020.

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Contents

Page

European foreword.....	4
1 Scope	6
2 Normative references	7
3 Terms and definitions	9
4 Symbols and abbreviations	12
4.1 Symbols	12
4.2 Abbreviations	12
5 Material	12
5.1 Ancillary fittings	12
5.2 Shallow chambers	13
5.3 Sealing ring retaining components	13
6 General characteristics	13
6.1 Appearance	13
6.2 Colour	13
6.3 Assemblies	13
7 Geometrical characteristics	13
7.1 General	13
7.2 Dimensions	13
7.2.1 General	13
7.2.2 Design lengths	14
7.2.3 Dimensions of ancillary fittings	14
7.2.4 Dimensions of shallow chambers	14
7.3 Additional requirements for sealed access fittings	14
8 Mechanical characteristics	14
9 Physical characteristics	16
9.1 Injection moulded ancillary fittings	16
9.2 Fabricated ancillary fittings	16
10 Performance requirements	17
11 Sealing rings	19
12 Adhesives	19
13 Marking and additional documentation	19
13.1 General	19
13.2 Minimum required marking, sealed access fittings and rodding tees	19
13.3 Minimum required marking, mechanical saddles	20
13.4 Minimum required marking, shallow chambers	20
13.5 Additional documentation, shallow chambers	21
13.6 Additional documentation, mechanical saddles	21
Annex A (normative) Utilization of non-virgin material for shallow chambers	22
A.1 Utilization of non-virgin materials	22
A.2 Material characteristics	24

Annex B (normative) Test methods for mechanical saddles	26
B.1 General	26
B.2 Test equipment.....	26
B.3 Procedures	27
B.3.1 Resistance to vertical load – pipe stop test	27
B.3.2 Mechanical strength	28
B.3.3 Tightness under deformation	29
Annex C (normative) Resistance to vertical loading of shallow chambers.....	31
Bibliography	32

European foreword

This document (EN 13598-1:2020) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

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 2020, and conflicting national standards shall be withdrawn at the latest by November 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13598-1:2010.

Compared to the previous version, the main changes are listed below:

- 1) test methods have been updated to the latest EN ISO standards where applicable;
- 2) the scope has been amended to clarify the products covered in this part and avoid confusion with the scope of part 2;
- 3) terms and definitions have been updated and also now include the product diagrams;
- 4) dimensional requirements have been updated and clarified;
- 5) the mechanical characteristics tables have been updated;
- 6) Annex A has been updated with requirements for the utilization of non-virgin materials for shallow chambers.

This document is part of a System Standard for plastics piping systems of a particular material for a specified application. There are a number of such System Standards.

System Standards are based on the results of the work being undertaken in ISO/TC 138 “*Plastics pipes, fittings and valves for the transport of fluids*”, which is a Technical Committee of the International Organization for Standardization (ISO).

They are supported by separate standards on test methods, to which references are made throughout the System Standard.

The System Standards are consistent with general standards on functional requirements and on recommended practice for installation.

EN 13598 consists of the following parts under the general title *Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE)*:

- *Part 1: Specifications for ancillary fittings and shallow chambers* (this document);
- *Part 2: Specifications for manholes and inspection chambers* (under revision);
- *Part 3: Guidance for assessment of conformity* (CEN/TS under revision).

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies the definitions and requirements for ancillary fittings and shallow chambers installed underground in non-pressure drainage and sewerage systems and manufactured from unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP), polypropylene with mineral modifier (PP-MD) or polyethylene (PE) intended for use for:

- non-pressure underground drainage and sewerage outside the building structure (application area code “U”), and
- non-pressure underground drainage and sewerage for both buried in ground within the building structure (application area code “D”) and outside the building structure.

This is reflected in the marking of products by “U” and “UD”.

It also covers the jointing of the ancillary fittings and shallow chambers to the pipework system.

The ancillary fittings covered by this standard are the following:

- sealed access fittings;
- rodding point covers;
- rodding tees;
- mechanical saddles.

Ancillary fittings according to this document are intended for use in pedestrian areas, except rodding tees and mechanical saddles which can also be used in vehicular trafficked areas.

NOTE 1 Pedestrian areas are as defined in EN 124-1.

Ancillary fittings can be installed to a maximum depth of 6,0 m from ground level, with the exception of rodding point covers.

Shallow chambers according to this document are intended for use in private drains located in pedestrian areas above the ground water table, to a maximum depth of 2,0 m from ground level to the invert of the main channel. This document covers shallow chambers with flow profile bases, and their joints to the piping system.

NOTE 2 Manholes and inspection chambers are specified in EN 13598-2 [1].

Ancillary fittings and shallow chambers complying with this document also comply with the general requirements given in EN 476.

Ancillary fittings and shallow chambers can be manufactured by various methods e.g. injection moulding, rotational moulding, spiral winding or fabricated from components made to other standards.

NOTE 3 Products complying with this document can be used with pipes, fittings and other components conforming to any of the plastics products standards listed in Clause 2, providing their dimensions are compatible.

NOTE 4 Products complying with this document can be installed in underground applications without additional static calculation.

NOTE 5 Ancillary fittings and shallow chambers can be subject to national safety regulations and / or local provisions.

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