

ICS 93.030

English Version

**Plastics piping systems for non-pressure underground drainage
and sewerage - Unplasticized poly(vinyl chloride)(PVC-U),
polypropylene (PP) and polyethylene (PE) - Part 3: Guidance for
assessment of conformity**

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 3:
Guide pour l'évaluation de la conformité

Kunststoff-Rohrleitungssysteme für erdverlegte drucklose
Abwasserkanäle und -leitungen - Weichmacherfreies
Polyvinylchlorid (PVC-U), Polypropylen (PP) und
Polyethylen (PE) - Teil 3: Empfehlungen für die Beurteilung
der Konformität

This Technical Specification (CEN/TS) was approved by CEN on 14 February 2012 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
Introduction.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Abbreviated terms	8
5 General.....	9
6 Testing and inspection.....	9
6.1 Material specification of PVC-U.....	9
6.2 Material specification of PP	10
6.3 Material specification of PE	11
6.4 Grouping.....	11
6.4.1 General.....	11
6.4.2 Size groups.....	11
6.4.3 Fitting groups.....	12
6.5 Type testing (TT).....	12
6.6 Batch release tests (BRTs)	15
6.7 Process verification tests (PVTs).....	16
6.8 Audit tests (ATs)	18
6.9 Indirect tests (ITs).....	21
6.10 Test records	21
Annex A (informative) Summary of EN 13598-1 test regime.....	22
Annex B (informative) Summary of EN 13598-2 test regime.....	23
Bibliography	24

Foreword

This document (CEN/TS 13598-3:2012) has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NEN.

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.

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

- *Part 1: Specifications for ancillary fittings including shallow inspection chambers;*
- *Part 2: Specifications for manholes and inspection chambers in traffic areas and deep underground installations;*
- *Part 3: Guidance for assessment of conformity (CEN/TS) (the present document).*

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Figures 1 and 2 are intended to provide general information on the concept of testing and organisation of those tests used for the purpose of the assessment of conformity. For each type of tests (i.e. type testing (TT), batch release test (BRT), process verification test (PVT) and audit test (AT)), this document details the applicable characteristics to be assessed and the frequency and sampling of testing.

A typical scheme for the assessment of conformity of compounds, products and assemblies by manufacturers is given in Figure 1.

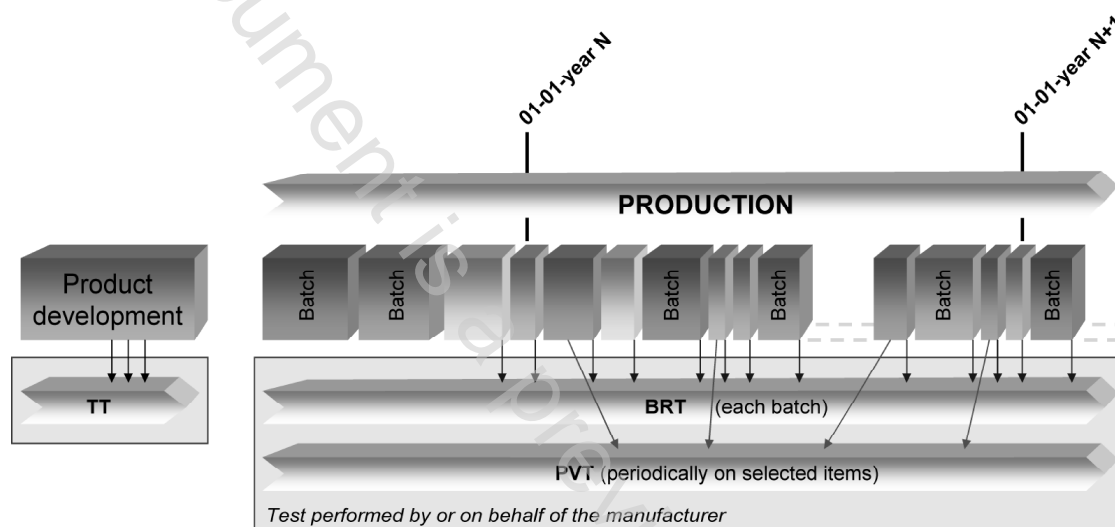


Figure 1 — Typical scheme for the assessment of conformity by a manufacturer

A typical scheme for the assessment of conformity of *compounds, formulations*, pipes, fittings, or assemblies by manufacturers, is given in Figure 2.

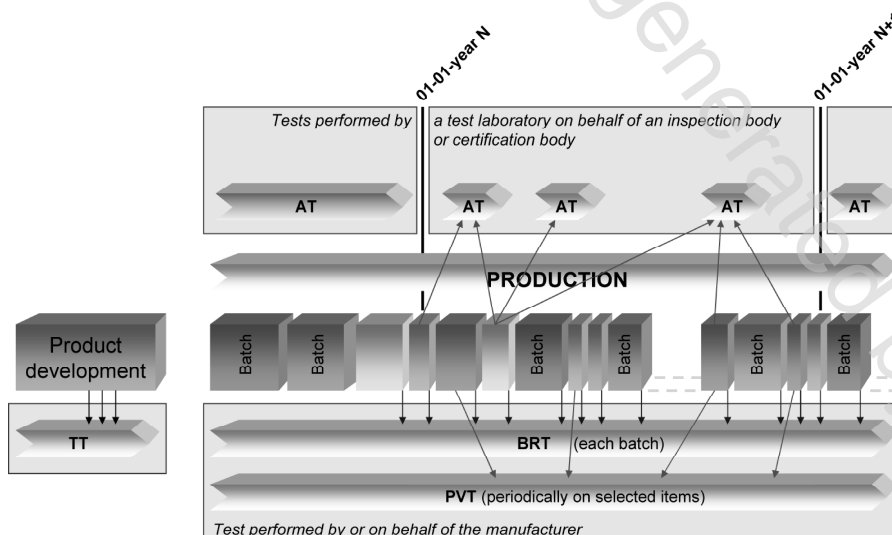


Figure 2 — Typical scheme for the assessment of conformity by a manufacturer

1 Scope

This Technical Specification gives guidance for the assessment of conformity of compounds/formulations, products and assemblies in accordance with Parts 1 and 2 of EN 13598 intended to be included in the manufacturer's quality plan as part of the quality management system and for the establishment of third-party certification procedures.

NOTE In order to help the reader, a basic test matrix is given in Annexes A and B.

In conjunction with EN 13598- 1 and -2, this Technical Specification is applicable to ancillary underground drainage fittings including manholes and inspection chambers:

- for non-pressure underground drainage and sewerage outside the building structure (application area code "U"), reflected in the marking of products by "U", and
- for non-pressure underground drainage and sewerage for both buried in ground within the building structure (application area code "D") and outside the building structure (application area code "U"), reflected in the marking of products by "UD".

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 1401-1:2009, *Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly(vinyl chloride) (PVC-U) — Part 1: Specifications for pipes, fittings and the system*

EN 13598-1:2010, *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 including shallow inspection chambers*

EN 13598-2:2009, *Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) — Part 2: Specifications for manholes and inspection chambers in traffic areas and deep underground installations*

ISO 3951-1, *Sampling procedures for inspections by variables — Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL*

3 Terms and definitions

For the purposes of this document, the following terms and definitions given in EN 13598-1:2010 and EN 13598-2:2009 and the following apply.

3.1 certification body

impartial body, governmental or non-governmental, possessing the necessary competence and responsibility to carry out certification of conformity according to given rules of procedure and management

Note 1 to entry: A certification body is preferably compliant with EN ISO/IEC 17021 [4], 3.2.

3.2 inspection body

body that performs inspection

Note 1 to entry: A body can be an organisation, or part of an organisation.

[SOURCE: EN ISO/IEC 17020:2004 [5], 2.2]