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**Cevni sistemi iz polimernih materialov za (nizko- in visokotemperaturne) odvodne sisteme v stavbah - Akrlonitril-butadien-stiren (ABS) - 2. del: Ugotavljanje skladnosti**

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Acrylonitrile-butadiene-styrene (ABS) - Part 2: Assessment of conformity

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur - Acrylnitril-Butadien-Styrol (ABS) - Teil 2: Beurteilung der Konformität

Systèmes de canalisations en plastique pour l'évacuation des eaux-vannes et des eaux usées (à basse et à haute température) à l'intérieur de la structure des bâtiments - Acrylonitrile-butadiène-styrène (ABS) - Partie 2 : Évaluation de la conformité

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**Ta slovenski standard je istoveten z: CEN/TS 1455-2:2023**

**ICS:**

23.040.01	Deli cevovodov in cevovodi na splošno	Pipeline components and pipelines in general
91.140.80	Drenažni sistemi	Drainage systems

**SIST-TS CEN/TS 1455-2:2023****en,fr,de**



TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
TECHNISCHE SPEZIFIKATION

# CEN/TS 1455-2

October 2023

ICS 23.040.01; 91.140.80

Supersedes CEN/TS 1455-2:2012

English Version

## Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Acrylonitrile-butadiene-styrene (ABS) - Part 2: Assessment of conformity

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This Technical Specification (CEN/TS) was approved by CEN on 4 September 2023 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.

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

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## European foreword

This document (CEN/TS 1455-2:2023) 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 shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TS 1455-2:2012.

The main changes compared to the previous edition CEN/TS 1455-2:2012 are:

- alignment with the revised template for the assessment of conformity documents;
- update of terms and definitions.

EN 1455 consists of the following parts, under the general title “*Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Acrylonitrile-butadiene-styrene (ABS)*”:

- *Part 1: Specifications for pipes, fittings and the system;*
- *Part 2: Assessment of conformity* (this document).

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

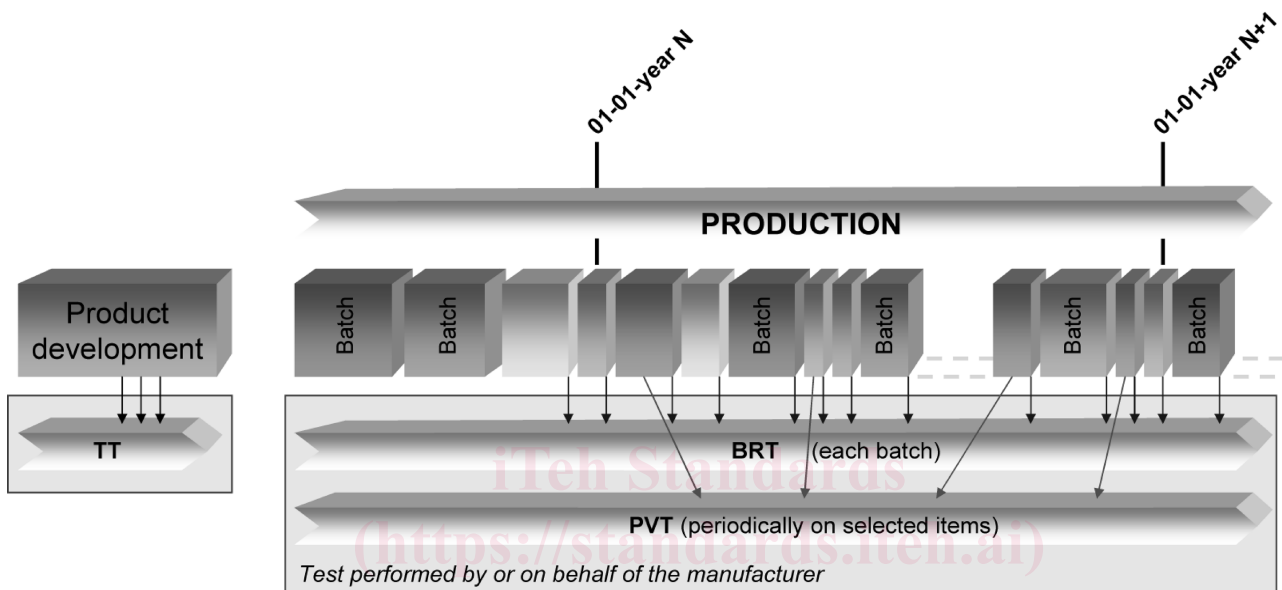
## CEN/TS 1455-2:2023 (E)

### Introduction

This document is based on the template prepared in CEN/TC 155/WG 21, Edition 6 (see document CEN/TC 155/WG 21 N1112).

This document details the applicable characteristics to be assessed for type testing (TT), batch release test (BRT), process verification test (PVT), and audit test (AT), as well as the frequency and sampling for testing.

The concept of testing and organization of those tests used for the AoC is shown, without or with certification, in Figures 1 and 2.



**Figure 1 — Typical scheme for the AoC by a manufacturer, without certification**

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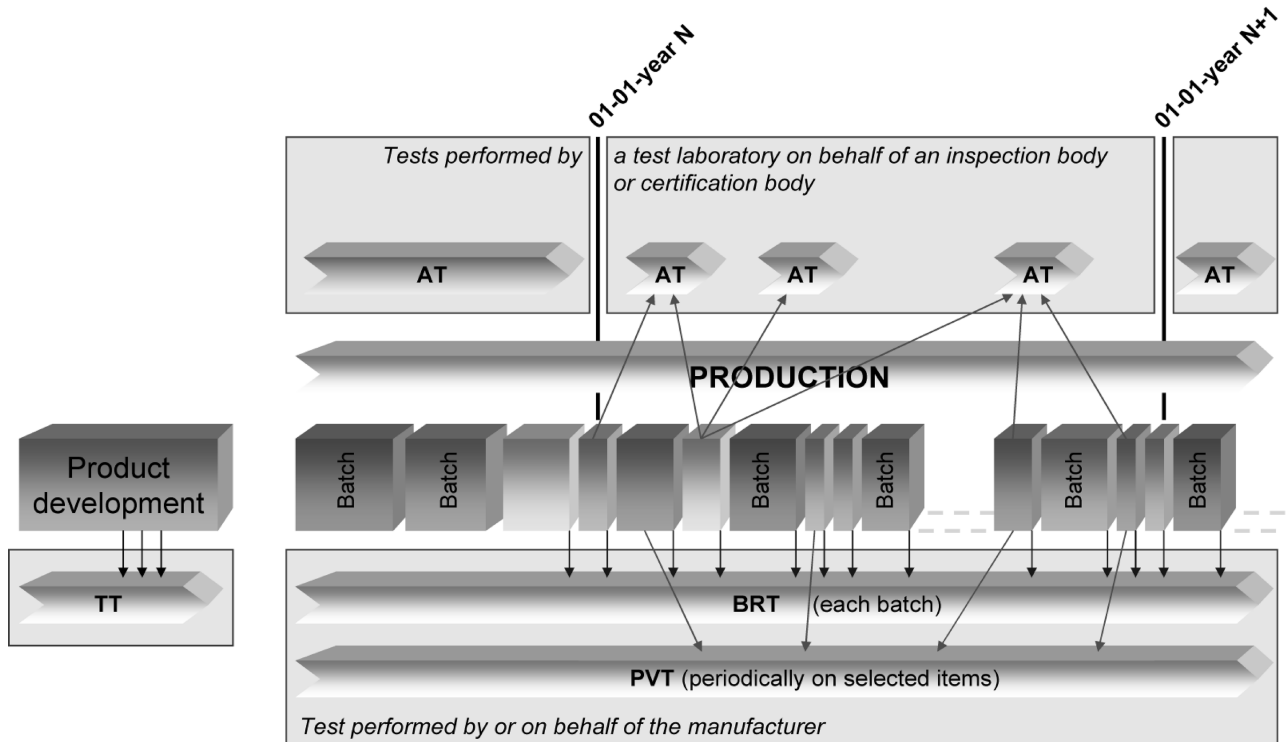


Figure 2 — Typical scheme for the AoC by a manufacturer, including certification

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## CEN/TS 1455-2:2023 (E)

### 1 Scope

This document gives guidance for specifying requirements for the AoC of compounds/formulation, products, joints and assemblies in accordance with the applicable part of EN 1455 intended to be included in the manufacturer's quality plan as part of the quality management system and for the establishment of certification procedures.

NOTE A basic test matrix provides an overview of the testing scheme in Annex A, Table A.1.

In conjunction with EN 1455-1 (see European foreword), this document is applicable to solid wall piping systems made of acrylonitrile-butadiene-styrene (ABS) intended to be used for soil and waste discharge (low and high temperature):

- inside buildings (application area code "B");
- both inside buildings and buried in ground within the building structure (application area code "BD").

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1455-1:2022, *Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Acrylonitrile-butadiene-styrene (ABS) — Part 1: Requirements for pipes, fittings and the system*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>

- IEC Electropedia: available at <https://www.electropedia.org/>

#### 3.1

##### **certification body**

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

Note 1 to entry: In this document, certification is understood as third party certification.

Note 2 to entry: For assessment purposes, the certification body can delegate tasks to an inspection body or a testing laboratory.

Note 3 to entry: The certification body preferably operates in accordance with EN ISO/IEC 17065 [2].

#### 3.2

##### **inspection body**

body that performs examination of a product, process, service, or installation or their design and determination of its conformity with specific requirements or, on the basis of professional judgment, with general requirements



[SOURCE: EN ISO/IEC 17020:2012 [3], definition 3.5 combined with definition 3.1 modified – Notes to entry 1, 2, 3 and 4 are not included]

Note 1 to entry: An inspection body is, either an organization or a part of an organization, mandated by the certification body.

Note 2 to entry: An inspection body preferably operates in accordance with EN ISO/IEC 17020 [3].

### 3.3 testing laboratory

laboratory which measures, tests, calibrates or otherwise verifies the performance of the characteristics of materials and products

Note 1 to entry: In the context of this document, the materials and products can be subjected to type testing, batch release testing, process verification testing and audit testing, as applicable.

Note 2 to entry: A testing laboratory preferably operates in accordance with EN ISO/IEC 17025 [4].

### 3.4 quality management system

part of a management system with regard to quality

[SOURCE: EN ISO 9000:2015 [5], definition 3.5.4]

Note 1 to entry: Requirements for quality management systems are given in EN ISO 9001 [1].

### 3.5 quality plan

document setting out the specific quality practices, responsibilities, resources and sequence of activities relevant to a particular product or range of products

### 3.6 type test TT

test performed to prove that the material, product, joint or assembly is capable of conforming to the requirement(s) given in the relevant standard

### 3.7 batch release test BRT

test performed on a batch of material, products, joints or assemblies which has to be satisfactorily completed before the batch can be released

Note 1 to entry: A batch release test can be performed by the manufacturer or outsourced on behalf of the manufacturer.

### 3.8 process verification test PVT

test performed on material, product, joint or assembly at specific intervals to confirm that the process continues to be capable of producing products which conform to the requirements given in the relevant standard

Note 1 to entry: Process verification tests can be performed by the manufacturer or outsourced on behalf of the manufacturer.

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Note 2 to entry: Process verification tests are regularly performed to demonstrate that the product remains compliant with the type test results.

**3.9**  
**audit test**  
**AT**

test performed on behalf of a certification body

Note 1 to entry: Audit tests are generally required to confirm that the material, product, joint or assembly continues to conform to the requirements given in the relevant standard and to provide information to assess the effectiveness of the quality management system.

**3.10**  
**indirect test**

batch release test performed which differs from that specified test for that particular characteristic, having previously verified its correlation with the specified test

Note 1 to entry: Indirect tests can be performed by the manufacturer or outsourced on behalf of the manufacturer.

**3.11**  
**witness test**

type test or audit test which is performed in the presence of a representative of the certification body

**3.12**  
**material**

generic term for compounds/formulations grouped by families, expressed by generic names

Note 1 to entry: Examples of generic names are PVC-U, polypropylene and EPDM.

**3.13**  
**substance**

monomer, additive, element or chemical compound as used in compounds/formulations

**3.14**  
**compound/formulation**

homogenous mixture of substances used for the manufacture of the product as defined in the referring product standard

Note 1 to entry: In general, the term “compound” is used for polyolefins and the term “formulation” for PVC.

Note 2 to entry: The term “composition” is often used instead of compound for metals and when dealing with water and food contact regulations.

**3.15**  
**material batch**

quantity of a given homogeneous compound/formulation manufactured under uniform conditions defined and identified by the compound/formulation manufacturer

**3.16**  
**product**

item as defined in the scope of the standard, e.g. pipe, fitting