PD CEN/TS 1455-2:2023



BSI Standards Publication

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

bsi.

National foreword

This Published Document is the UK implementation of CEN/TS 1455-2:2023. It supersedes PD CEN/TS 1455-2:2012, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/88/1, Plastics piping for non-pressure applications.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

This publication is not to be regarded as a British Standard.

© The British Standards Institution 2023
Published by BSI Standards Limited 2023

ISBN 978 0 539 25477 8

ICS 91.140.80; 23.040.01

Compliance with a Published Document cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 October 2023.

Amendments/corrigenda issued since publication

Date	Text affected

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

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

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

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.

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



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2023 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. CEN/TS 1455-2:2023 E

Contents

Page

European foreword **3**

Introduction **4**

1 Scope **6**

2 Normative references **6**

3 Terms and definitions **6**

4 Abbreviated terms **9**

5 General **10**

6 Testing **10**
6.1 Group **10**
6.2 Type testing **10**
6.3 Batch release testing **14**
6.4 Process verification testing **16**
6.5 Audit testing **18**
6.6 Test records **21**

Annex A (informative) **Basic test matrix** **22**

Bibliography **24**

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.

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.

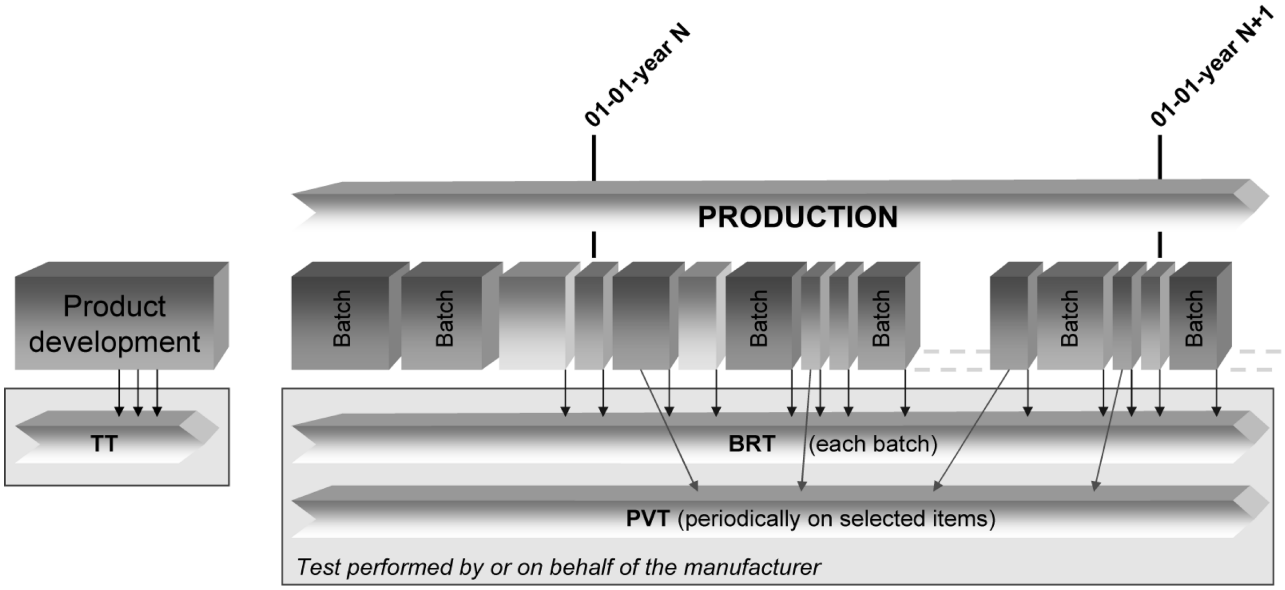


Figure 1 —Typical scheme for the AoC by a manufacturer, without certification

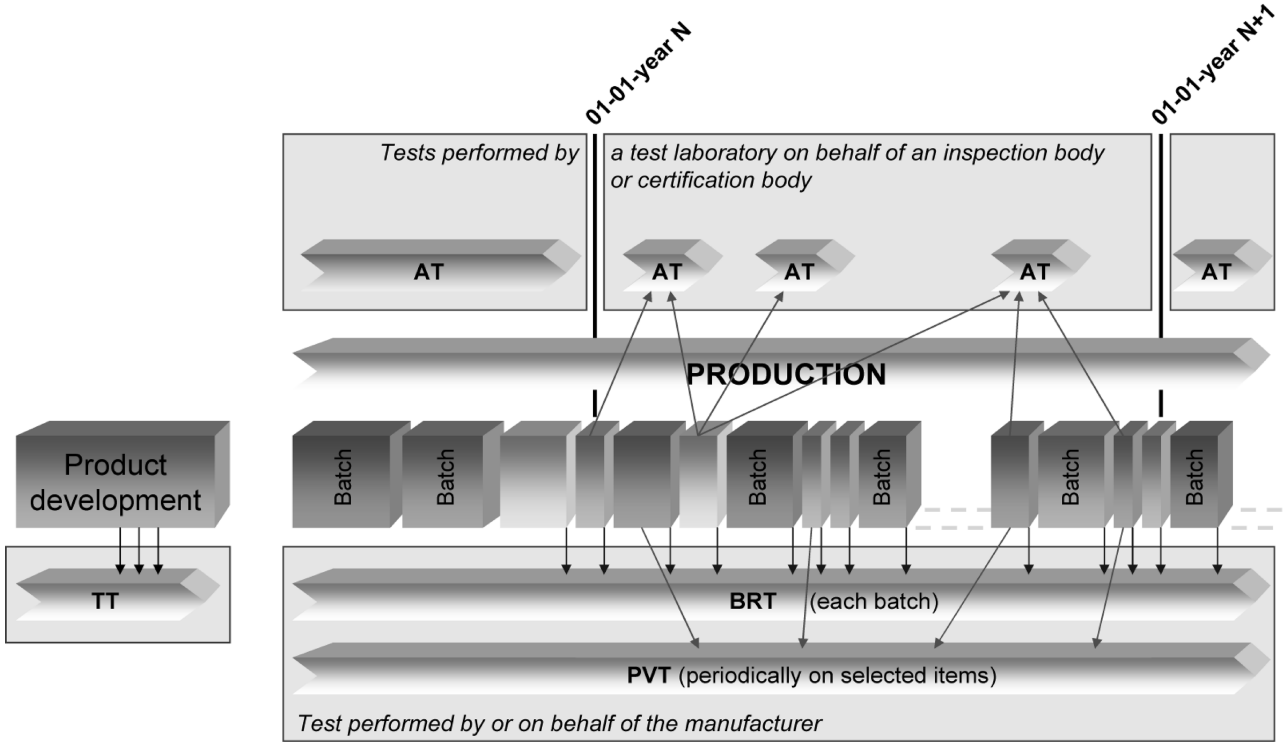


Figure 2 — Typical scheme for the AoC by a manufacturer, including certification

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