

---

**Cevni sistemi iz polimernih materialov - Navodilo za označevanje izdelkov glede na namen uporabe**

Plastics piping systems - Guidance for coding of products and their intended uses

Kunststoff-Rohrleitungssysteme - Anleitung zur Codierung von Produkten und deren Verwendungszwecke

Systemes de canalisations en plastiques - Guide pour le codage de produits et de leurs utilisations prévues

**iTeh STANDARD PREVIEW**  
(standards.itteh.ai)

[SIST-TP CEN/TR 15438:2007](https://standards.itteh.ai/catalog/standards/sist/b597e817-8170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007)

**Ta slovenski standard je istoveten z: CEN/TR 15438:2007**

<https://standards.itteh.ai/catalog/standards/sist/b597e817-8170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007>

---

**ICS:**

23.040.20      Cevi iz polimernih materialov    Plastics pipes

**SIST-TP CEN/TR 15438:2007**

**en;fr;de**

## **iTeh STANDARD PREVIEW** **(standards.iteh.ai)**

SIST-TP CEN/TR 15438:2007

<https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007>

English Version

## Plastics piping systems - Guidance for coding of products and their intended uses

Systèmes de canalisations en plastiques - Guide pour le codage de produits et de leurs utilisations prévues

Kunststoff-Rohrleitungssysteme - Anleitung zur Codierung von Produkten und deren Verwendungszwecke

This Technical Report was approved by CEN on 16 April 2006. It has been drawn up by the Technical Committee CEN/TC 155.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 and United Kingdom.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST-TP CEN/TR 15438:2007](https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007)

<https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007>



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Contents

|                                                                           | Page      |
|---------------------------------------------------------------------------|-----------|
| <b>Foreword</b>                                                           | <b>3</b>  |
| <b>Introduction</b>                                                       | <b>4</b>  |
| <b>1 Scope</b>                                                            | <b>5</b>  |
| <b>2 Normative references</b>                                             | <b>5</b>  |
| <b>3 Symbols and shortcuts, terms and definitions</b>                     | <b>5</b>  |
| 3.1 General                                                               | 5         |
| 3.2 Materials and products                                                | 5         |
| 3.3 Intended uses                                                         | 6         |
| 3.4 Classes                                                               | 8         |
| <b>Annex A (informative) Marking differences in GRP product standards</b> | <b>10</b> |
| <b>Bibliography</b>                                                       | <b>11</b> |

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TP CEN/TR 15438:2007](https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007)  
<https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007>

## Foreword

This document (CEN/TR 15438:2007) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

This document is drafted in the three official CEN languages. In the tables of Clause 3 there is free space left for CEN Member bodies to add its own national language(s) to the symbols.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST-TP CEN/TR 15438:2007  
<https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007>

## Introduction

For PE pressure piping systems, since the late 1980's, it is common practice to use a code indicating the intended use. This information is put on the pipe, the label of a fitting or valve or the packaging. It may also be repeated in manufacturer's technical files.

With the introduction of harmonised European Standards related to the Construction Products Directive [1] a lot of information shall accompany the CE marking symbol.

Guidance Paper D [2] gives recommendations to the specification writers:

*"Use of "codified" formats: Where additional information on the declared performances of harmonised characteristics is required, or to define the product, its intended use or its end-use condition, specification writers should explore the possibilities of using abbreviated forms of presentation (defined symbols, standard designations, classes of convenience or pictograms). Where this is done, it is important that specification writers ensure the consistent applications of such "codified" formats across product families".*

*"Intended uses: Possible intended uses for the product(s) should be defined in the technical specification, together with appropriate reference terms, or symbols, to be used in the information accompanying the CE marking, if necessary. Products with more than one intended use will need to be accompanied by sufficient information to cover all of them, but the technical specification should provide some flexibility in the presentation of this information, if appropriate".*

**ITEH STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST-TP CEN/TR 15438:2007  
<https://standards.iteh.ai/catalog/standards/sist/b597ef47-f170-466d-b902-4a3dcdb70495/sist-tp-cen-tr-15438-2007>

## 1 Scope

This Technical Report gives guidance for the coding of products, their classification and intended uses for plastics piping systems. It lays down reference terms and symbols to be used when establishing documentation accompanying the CE marking according to the European Directives.

## 2 Normative references

The following referenced documents are indispensable for the application of this Technical Report. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 472, *Plastics — Vocabulary* (ISO 472:1999).

EN ISO 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics* (ISO 1043-1:2001).

EN ISO 1043-2, *Plastics — Symbols and abbreviated terms — Part 2: Fillers and reinforcing materials* (ISO 1043-2:2000).

EN ISO 1043-3, *Plastics — Symbols and abbreviated terms — Part 3: Plasticizers* (ISO 1043-3:1996).

EN ISO 1043-4, *Plastics — Symbols and abbreviated terms — Part 4: Flame retardants* (ISO 1043-4:1998).

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests*.

ISO 12176-4, *Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 4: Traceability coding*.

ISO/FDIS 13950, *Plastics pipes and fittings — Automatic recognition systems for electrofusion joints (Intended as replacement for ISO/TR 13950:1997)*.

## 3 Symbols and shortcuts, terms and definitions

### 3.1 General

Symbols, shortcuts, terms and definitions given in this Technical Report are primarily based on existing standards as EN ISO 1043 parts 1 to 4, EN 13501-1, ISO 12176-4 and ISO/FDIS 13950, as well as on internal CEN/TC155 [3] and ISO/TC138 [4] Guidance papers and national standards [5] to which are only added new items necessary to respond to the need of CE marking rules. Additional information may be given in specific product standards.

### 3.2 Materials and products

Reference to material or product symbols or shortcuts can be found in the standards given in Table 1.

NOTE It is intended that the CEN member body adds its own national language(s) to the tables given in this clause.

**Table 1 — Material or product symbols or shortcuts**

| Symbols or shortcuts for                                                                                                                        | Standards      |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| en: Plastics in general (vocabulary)<br>fr: Les plastiques en générale (vocabulaire)<br>de: Kunststoffe im allgemeinen (Fremdwörterverzeichnis) | EN ISO 472     |
| en: Basic polymers<br>fr: Polymères de base<br>de: Basis-Polymere                                                                               | EN ISO 1043-1  |
| en: Fillers and reinforcing materials<br>fr: Charges et matériaux de renforcement<br>de: Füllstoffe und Verstärkungsstoffe                      | EN ISO 1043-2  |
| en: Plasticizers<br>fr: Plastifiants<br>de: Weichmacher                                                                                         | EN ISO 1043-3  |
| en: Flame retardants<br>fr: Ignifuges<br>de: Flammschutzmittel                                                                                  | EN ISO 1043-4  |
| en: Reaction to fire classification<br>fr: Classification réaction au feu<br>de: Klassifizierung des Brandverhaltens                            | EN 13501-1     |
| en: Traceability coding<br>fr: Codage de la traçabilité<br>de: Rückverfolgbarkeits-Code                                                         | ISO 12176-4    |
| en: Pictograms for electrofusion elements<br>fr: Pictogrammes pour éléments électrosoudables<br>de: Piktogramme für Elektro-Schweisselemente    | ISO/FDIS 13950 |

### 3.3 Intended uses

Table 2 gives the applicable term that should be used for the intended use.

Table 2 — Intended uses

| Term <sup>a b</sup>  | Definition                                                                                                                                                                                                                                                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GAS</b>           | en: Supply of gaseous fuels<br>fr: Distribution de combustibles gazeux<br>de: Gasversorgung                                                                                                                                                                                                 |
| <b>W</b>             | en: Drinking water supply, pressure<br>fr: Alimentation en eau potable, pression<br>de: Trinkwasserversorgung, Druck                                                                                                                                                                        |
| <b>P<sup>c</sup></b> | en: Drainage and sewerage, pressure<br>fr: Branchement et collecteurs d'assainissement, sous pression<br>de: Entwässerungs- und Abwasserrohrleitungen, Druck                                                                                                                                |
| <b>H<sup>c</sup></b> | en: Hot water, pressure<br>fr: Eau chaude, pression<br>de: Warmwasser, Druck                                                                                                                                                                                                                |
| <b>HW</b>            | en: Hot (and cold) drinking water, pressure<br>fr: Eau potable chaude (et froide), pression<br>de: Trinkwasser warm (und kalt), Druck                                                                                                                                                       |
| <b>B</b>             | en: Soil and waste discharge within the building structure, non-pressure<br>fr: Evacuation des eaux-vannes et des eaux usées à l'intérieur de la structure des bâtiments, sans pression<br>de: Abwasser innerhalb der Gebäudestruktur, drucklos                                             |
| <b>U</b>             | en: Underground drainage and sewerage, non-pressure<br>fr: Branchements et collecteur d'assainissement enterrés, sans pression<br>de: Erdverlegte Abwasserkanäle und -leitungen, drucklos                                                                                                   |
| <b>UD</b>            | en: Underground drainage and sewerage and under the building structure, non-pressure<br>fr: Branchements et collecteur d'assainissement enterrés et sous la structure des bâtiments, sans pression<br>de: Erdverlegte Abwasserkanäle und -leitungen und unter der Gebäudestruktur, drucklos |
| <b>BD</b>            | en: Soil and waste discharge within and under the building structure, non-pressure<br>fr: Evacuation des eaux usées à l'intérieur et sous la structure des bâtiments, sans pression<br>de: Abwasser innerhalb und unter der Gebäudestruktur, drucklos                                       |
| <b>R<sup>c</sup></b> | en: Rainwater above ground, outside buildings<br>fr: Eau pluviale hors sol, à l'extérieur du bâtiment<br>de: Regenwasser über Grund, ausserhalb des Gebäudes                                                                                                                                |
| <b>C</b>             | en: Cable ducting<br>fr: Protection de câbles<br>de: Kabelschutz                                                                                                                                                                                                                            |
| <b>L</b>             | en: Land drainage<br>fr: Drainage du sol<br>de: Bodenentwässerung                                                                                                                                                                                                                           |
| <b>I</b>             | en: Irrigation<br>fr: Irigation<br>de: Bewässerung                                                                                                                                                                                                                                          |