



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 13264:2017&LC:2018

Thermoplastics piping systems for non-pressure underground drainage and sewerage - Thermoplastics fittings - Test method for mechanical strength or flexibility of fabricated fittings (ISO 13264:2010)

**I.S. EN ISO 13264:2017&LC:2018**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN ISO 13264:2017&LC:2018 is the adopted Irish version of the European Document EN ISO 13264:2017, Thermoplastics piping systems for non-pressure underground drainage and sewerage - Thermoplastics fittings - Test method for mechanical strength or flexibility of fabricated fittings (ISO 13264:2010)

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*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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## Correction Notice

**Reference:** EN ISO 13264:2017

**Title:** Thermoplastics piping systems for non-pressure underground drainage and sewerage -  
Thermoplastics fittings - Test method for mechanical strength or flexibility of fabricated fittings (ISO  
13264:2010)

**Work Item:** 00155889

Brussels, 2018-01-31

**please include the following minor editorial correction(s) in the document related to:**

the following language version(s) :

- ☒ English
- ☒ French
- ☐ German

for the following procedure :

- ☐ PQ/UQ
- ☐ Enquiry
- ☐ 2nd Enquiry
- ☐ Parallel Enquiry
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- ☐ 2<sup>nd</sup> Parallel Formal Vote
- ☐ UAP
- ☐ TC Approval
- ☐ 2<sup>nd</sup> TC Approval
- ☒ Publication
- ☐ Parallel Publication

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It has been brought to our attention that this document, issued on 2017-10-18, requires modification.

DOW "2020-10-31" has been corrected in the forewords of English and French versions.

Please find enclosed the updated English and French versions.

We apologise for any inconvenience this may cause.

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN ISO 13264**

October 2017

ICS 23.040.20; 23.040.45; 91.140.80; 93.030

Supersedes EN 12256:1998

English Version

**Thermoplastics piping systems for non-pressure  
underground drainage and sewerage - Thermoplastics  
fittings - Test method for mechanical strength or flexibility  
of fabricated fittings (ISO 13264:2010)**

Systèmes de canalisations thermoplastiques pour  
branchements et collecteurs d'assainissement enterrés  
sans pression - Raccords thermoplastiques - Méthode  
d'essai de la résistance mécanique ou de la flexibilité  
des raccords façonnés (ISO 13264:2010)

Rohrleitungssysteme aus Thermoplasten für drucklose  
erdverlegte Entwässerungs- und Abwasserleitungen -  
Formstücke aus Thermoplasten - Prüfverfahren der  
mechanischen Festigkeit oder Elastizität von  
handgefertigten Formstücken (ISO 13264:2010)

This European Standard was approved by CEN on 19 September 2017.

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

**EN ISO 13264:2017 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>



## **European foreword**

The text of ISO 13264:2010 has been prepared by Technical Committee ISO/TC 138 “Plastics pipes, fittings and valves for the transport of fluids” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 13264:2017 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 April 2018, and conflicting national standards shall be withdrawn at the latest by October 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 12256:1998.

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

## **Endorsement notice**

The text of ISO 13264:2010 has been approved by CEN as EN ISO 13264:2017 without any modification.

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# INTERNATIONAL STANDARD

**ISO  
13264**

First edition  
2010-06-01

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## **Thermoplastics piping systems for non- pressure underground drainage and sewerage — Thermoplastics fittings — Test method for mechanical strength or flexibility of fabricated fittings**

*Systèmes de canalisations thermoplastiques pour branchements et  
collecteurs d'assainissement enterrés sans pression — Raccords  
thermoplastiques — Méthode d'essai de la résistance mécanique ou de  
la flexibilité des raccords façonnés*



Reference number  
ISO 13264:2010(E)

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## ISO 13264:2010(E)

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## **Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 13264 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 1, *Plastics pipes and fittings for soil, waste and drainage (including land drainage)*.



# Thermoplastics piping systems for non-pressure underground drainage and sewerage — Thermoplastics fittings — Test method for mechanical strength or flexibility of fabricated fittings

## 1 Scope

This International Standard specifies a method for testing the mechanical strength or flexibility of a fabricated thermoplastic fitting intended to be used in non-pressure underground applications.

## 2 Principle

An assembly of a fabricated fitting and the relevant number of adjacent pipes and anchorages (see Figures 1 and 2) is subjected to a moment at the critical point. The critical point is where structural damage is most likely to start when increasing the moment.

Either a specified moment,  $M$ , or a specified displacement,  $A$ , becomes the determining factor, whichever is reached first.

It is assumed that the following test parameters are set by the referring standard:

- a) the sampling procedure and the number of test pieces (see 4.2);
- b) the conditioning temperature, if other than  $(23 \pm 5) ^\circ\text{C}$  (see Clause 5);
- c) the conditioning time, if other than 21 days (see Clause 5);
- d) if appropriate, the moment ( $M = F \times L$ ) or displacement to be applied (see Clause 6).

## 3 Apparatus

**3.1 Anchorage(s)**, capable of maintaining the body of the fabricated fitting rigid during the test. The anchorages shall not deform the fitting.

**3.2 Equipment for applying a force**, that results in a moment in the critical point (see Clause 6).

The direction of the force can be clockwise or anticlockwise provided tensile stresses are applied to the critical point.

**3.3 Equipment for determining the length,  $L$** , of the arm to the critical point (see Figures 1 and 2).

When the displacement,  $A$ , is the determining factor, the arm,  $L$ , as shown in Figures 1 and 2, shall be  $(1\,200 \pm 10)$  mm.

**3.4 Force and displacement measurement instruments**, capable of determining the force applied and the displacement of the end of the arm to which the force is applied, as applicable (see Clause 4 and Table 1).

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