



**NSAI**  
Standards

Irish Standard  
I.S. EN 913:2018+A1:2021

# Gymnastic equipment - General safety requirements and test methods

**I.S. EN 913:2018+A1:2021**

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

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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## National Foreword

I.S. EN 913:2018+A1:2021 is the adopted Irish version of the European Document EN 913:2018+A1:2021, Gymnastic equipment - General safety requirements and test methods

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

**EN 913:2018+A1**

August 2021

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Supersedes EN 913:2018

English Version

**Gymnastic equipment - General safety requirements and  
test methods**

Matériel de gymnastique - Exigences générales de  
sécurité et méthodes d'essai

Turngeräte - Allgemeine sicherheitstechnische  
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 22 July 2018 and includes Amendment 1 approved by CEN on 17 February 2021.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.


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## EN 913:2018+A1:2021 (E)

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## European foreword

This document (EN 913:2018+A1:2021) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

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 March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.


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 913:2018 .

This document is one of several standards, each of which deals with a particular type or a particular group of gymnastic equipment. Gymnastic equipment of any type not covered by a relevant European Standard is covered by this general standard.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document includes Amendment 1 approved by CEN on 17 February 2021.

The start and finish of text introduced or altered by amendment is indicated in the text by tags  .

The principal changes from the previous edition of EN 913 are as follows:

- a) Scope has been concretised by adding sports equipment;
- b) Term “hazard” modified according to EN ISO 12100:2010;
- c) Term “risk” added according to EN ISO 12100:2010;
- d) References to relevant European Directives added;
- e) Risk of “fire” has been deleted, as it is not relevant for gymnastic equipment;
- f) New Subclause 5.1 “Material” added;
- g) Requirements regarding entrapment have been harmonized with EN 1176-1:2017;
- h) Entrapment requirement for floor fixings has been added;
- i) New Subclause 5.7 “Friction and abrasion” added;
- j) New Subclause 5.8 “Ergonomics” added;
- k) In Clause 6 a reference to the relevant European Standard on Gymnastic equipment was added;

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- l) New Clause 7 “Manufactures instructions” has been added;
- m) Body mass for multiple use has been modified according to CEN ISO/TR 7250-2;
- n) New “Bibliography” added.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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, Turkey and the United Kingdom.

## 1 Scope

This document specifies general safety requirements and test methods for all pieces of gymnastic and sports equipment and for all pieces of equipment for the use of physical education, training and competition, intended for use supervised by a competent person and not specified in other, individual standards and/or federation rules.

## 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 1991-1-1, *Eurocode 1: Actions on structures - Part 1-1: General actions - Densities, self-weight, imposed loads for buildings*

EN 1991-1-3, *Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads*

EN 1991-1-4, *Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions*

EN 1991-1-5, *Eurocode 1: Actions on structures - Part 1-5: General actions - Thermal actions*

EN ISO 12100:2010, *Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)*

ISO 6487, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

## 3 Terms and definitions

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

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 3.1

#### **hazard**

potential source of harm

[SOURCE: EN ISO 12100:2010, 3.6]

### 3.2

#### **risk**

combination of probability of occurrence of harm and the severity of that harm

[SOURCE: EN ISO 12100:2010, 3.12]

### 3.3

#### **body mass**

mass of the person(s) using the equipment

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