

BS EN 1729-1:2015

Incorporating corrigendum August 2016



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Furniture — Chairs and tables for educational institutions

Part 1: Functional dimensions

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National foreword

This British Standard is the UK implementation of EN 1729-1:2015, incorporating corrigendum August 2016. It supersedes BS EN 1729-1:2006 which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by CEN corrigendum August 2016 is indicated in the text by AC1 AC1.

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A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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Furniture - Chairs and tables for educational institutions - Part 1: Functional dimensions

Ameublement - Sièges et tables pour établissements
d'enseignement - Partie 1 : Dimensions fonctionnelles

Möbel - Stühle und Tische für Bildungseinrichtungen -
Teil 1: Funktionsmaße

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European foreword

This document (EN 1729-1:2015) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by June 2016 and conflicting national standards shall be withdrawn at the latest by June 2016.

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

This document supersedes EN 1729-1:2006.

Compared to EN 1729-1:2006, the following modifications have been made:

- a) addition of an annex for functional dimensions of tall chairs (Annex D);
- b) addition of an annex for functional dimensions of stools and associated worksurfaces (Annex E);
- c) key dimensions of chairs in Annexes A and D are measured using the school chair measuring device (see Annex F), some of them when the chair is loaded with specified loads;
- d) a rationale for the functional dimensions of chairs and tables is provided (Annex I).

EN 1729 is composed of the following parts:

- *Part 1: Functional dimensions* [the present document];
- *Part 2: Safety requirements and test methods*.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This part of EN 1729 is based on the principle that chairs and tables, intended for use in educational institutions for general-purpose education, should be designed to encourage good postures.

This part of EN 1729 takes selected national standards into consideration.

It does not specify design, but only those dimensions which promote good posture for either fixed or adjustable furniture. The dimensional requirements of this European Standard permit various interpretations of design; hence customs, educational practices, technical and financial circumstances of individual countries can be satisfied. It includes a rationale for the determination of functional dimensions.

The minimum dimensions specified are considered as the absolute minimum. They can be exceeded. The maximum dimensions specified are considered as the absolute maximum; smaller dimensions can be used.

EN 1729-2 specifies safety requirements and test methods.

1 Scope

This European Standard specifies functional dimensions and markings for all chairs, stools and tables, for educational institutions, including fixed and adjustable chairs and tables.

It applies to both un-upholstered and upholstered chairs and stools as well as to both non-swivel and swivel chairs. It applies to furniture for use with laptop computers or portable devices.

It does not apply to ranked seating or special purpose workstations.

It does not apply to furniture used by teaching personnel.

Annex A (normative) includes single-sloped chairs and associated tables.

Annex B (normative) includes double-sloped high chairs and associated tables.

Annex C (normative) includes standing-height tables.

Annex D (normative) includes tall chairs and associated tables.

Annex E (normative) includes stools and associated worksurfaces.

Annex F (normative) includes measurement methods.

Annex G (informative) includes guidance on size marks for adjustable chairs and tables.

Annex H (informative) includes guidance on calculating heights of double-sloped chairs and associated tables.

Annex I (informative) includes a rationale for functional dimensions.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1729-2, *Furniture - Chairs and tables for educational institutions - Part 2: Safety requirements and test methods*

3 Terms and definitions

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

3.1

median plane

vertical plane running from front to rear through the centre of the seat, dividing the chair into two equal parts

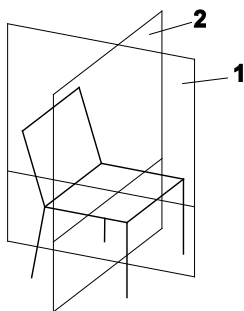
Note 1 to entry: See Figure 1.

3.2

transverse plane

vertical plane perpendicular to the median plane passing through the centre of the seat

Note 1 to entry: See Figure 1.



Key

- 1 median plane
- 2 transverse plane

Figure 1 — Illustration of the median and transverse planes

3.3

most forward point of the backrest (Point S)

most forward point in the specified range of the backrest on the median plane

Note 1 to entry: The specified range of the backrest is shown in Table F.2.

Note 2 to entry: See Figure A.3, Figure B.3 and Figure D.3.

3.4

adjustable furniture

furniture that can be adjusted by the users (pupils), without the need for tools

3.5

multi-size furniture

furniture that is adjustable at installation (not by the users) to change dimensions from one size mark to another

3.6

double-sloped seat

seat intended for sitting using either the front part of the seat (leaning forward) or the rear part of the seat (leaning backward), with the feet resting on a footrest or the floor

Note 1 to entry: See Figure 5 and Figure B.5.

3.7

inclination of a single-sloped seat and of the front part of a double-sloped seat (α)

angle formed by the front part of the seat and the horizontal

Note 1 to entry: See Figure 2, Figure 3, Figure 4 and Figure 5.