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- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Full document details: 25/30484773 DC

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

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

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 207.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 1729-1:2025) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 1729-1:2015.

EN 1729-1:202Y includes the following significant technical changes with respect to EN 1729-1:2015:

- rationalization of the annexes;
- improvement of the measurement method.

Introduction

This part of EN 1729 is based on the principle that chairs stools 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 document 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 document 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 (informative) includes guidance on size marks for adjustable chairs and tables.

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

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

Annex D (normative) includes chair measurement methods.

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

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 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.

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 median plane

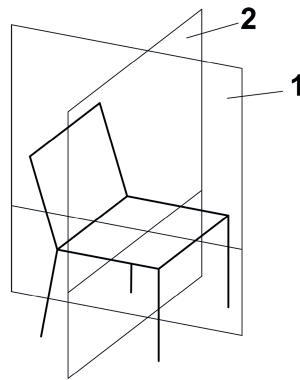
vertical plane running from front to rear through the centre of the seat, dividing the chair into two parts

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

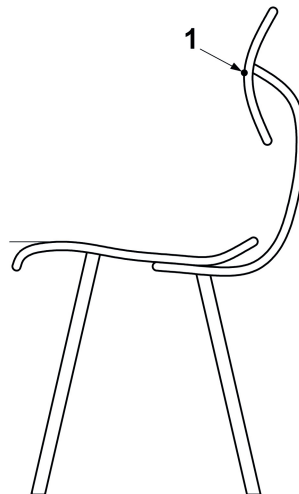
Figure 1 — Illustration of the median and transverse planes

3.3**most forward point of the backrest**

most forward point (MFP) in the specified range of the backrest on the median plane as defined by the SCMD

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

Note 2 to entry: See Figure 2.

**Key**

- 1 MFP (most forward point)

Figure 2 — Position of MFP on a chair

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

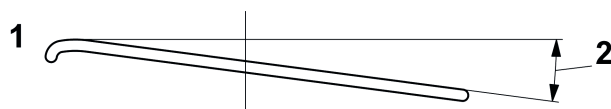
Note 1 to entry: See Figure 5 and Figure 6.

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

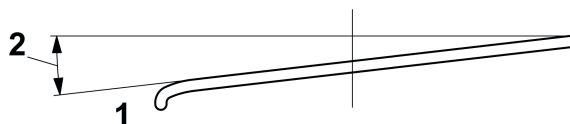
Note 1 to entry: See Figure 3, Figure 4, Figure 5 and Figure 6.



Key

- 1 front
- 2 $\alpha < 0^\circ$ (negative for rearward-sloping seats)

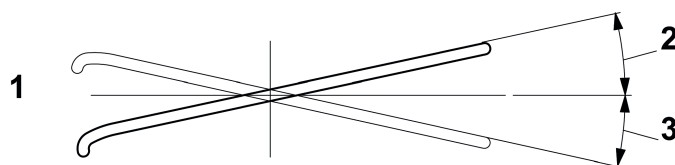
Figure 3 — Example of a single-sloped seat with a negative seat angle



Key

- 1 front
- 2 $\alpha > 0^\circ$ (positive for forward-sloping seats)

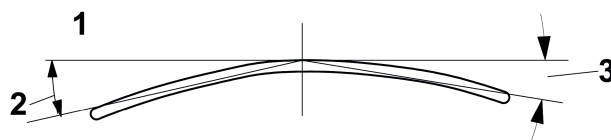
Figure 4 — Example of a single-sloped seat with a positive seat angle



Key

- 1 front
- 2 $\alpha > 0^\circ$
- 3 $\alpha < 0^\circ$

Figure 5 — Examples of a single-sloped tiltable seat

**Key**

- 1 front
- 2 $\alpha > 0^\circ$
- 3 $\delta < 0^\circ$

Figure 6 — Example of a double-sloped seat (see Annex B)**3.8****inclination of the rear part of a double-sloped seat (δ)**

angle formed by the horizontal and the rear part of the seat, determined in the median plane

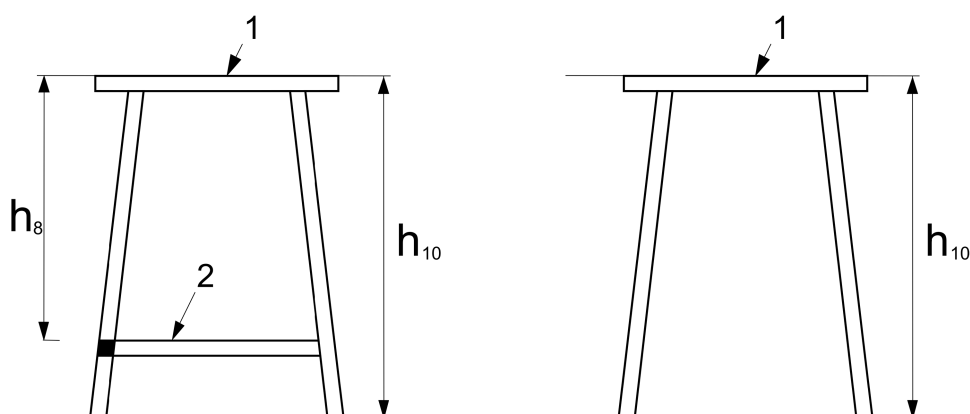
Note 1 to entry: See Figure 6.

3.9**stool**

seating without backrest or armrests and intended for use for short periods

Note 1 to entry: See Figure 7. The seat height to the footrest, h_8 , can be to one size mark and the seat height to the floor, h_{10} , can be to another size mark, as defined in Table 6 and Table 7.

Note 2 to entry: Any upward extension at the back of the stool below the Lumbar support range specified in Table D.2 cannot be considered to be a backrest and the seating can be considered to be a stool (see Figure 20).

**Key**

- 1 stool seat
- 2 footrest
- h_8 seat height for stools as specified in Table E.1
- h_{10} total stool height

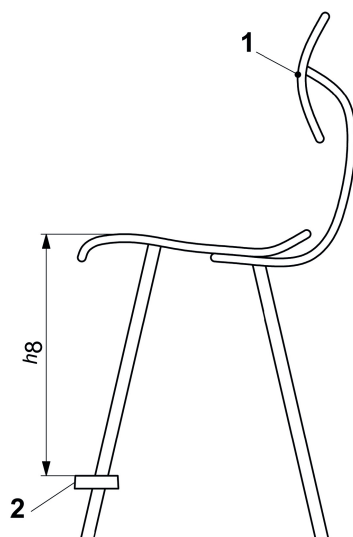
Figure 7 — Stools with and without footrest

3.10

tall chair

chair with the height of seat from the floor higher than the seat height specified in Table 1 and with a footrest

Note 1 to entry: See Figure 8.



Key

- 1 MFP (most forward point)
- 2 footrest
- h_8 seat height for tall chair as specified in Table D.1

Figure 8 — Tall chair with footrest

3.11

school chair measuring device SCMD

measuring device intended for determining MFP (most forward point), buttock zone and chair dimensions of school chairs

Note 1 to entry: Details of the SCMD are given in 5.2 and the method of use is given in Annex D.

3.12

height of the seat (h_8)

vertical distance between the highest point on the front of the seat and the ground or the footrest, as determined by SCMD or as described in D.3.2

Note 1 to entry: See Figure 12 and Figure 13.

3.13

effective depth of the seat (t_4)

distance from the back of the buttocks plate of the SCMD to the seat depth indicator pins of the SCMD when the SCMD is placed on the chair

3.14

width of the seat (b_3)

horizontal distance between vertical lines through the side edges of the seat surface at a distance from the front of the seat equal to half of seat depth (t_4)

Note 1 to entry: See Figure 9.

3.15

height of the backrest (h_7)

vertical distance between the top and the bottom of the backrest, determined on the median plane

Note 1 to entry: The minimum height of the backrest is the distance between the two pins on the vertical member of the SCMD for size marks 3 to 7.

Note 2 to entry: See D.1.6 e) for size marks 3 to 7 and see Figure 12 and Figure 13 for size marks 0 to 2.

3.16

width of the backrest (b_4)

greatest horizontal distance between its side edges in the backrest range as defined by the two pins of the backrest locator

Note 1 to entry: See Figure 9.

3.17

horizontal radius of the backrest (r_2)

radius of the backrest in the horizontal plane at the MFP

Note 1 to entry: See Figure 9.

3.18

inclination of a single-sloped seat (α)

angle between the seat and the horizontal as determined by the loaded SCMD on the chair

Note 1 to entry: See Figure 3, Figure 4, Figure 5 and Figure D.32.

3.19

angle between the seat and the backrest (γ)

angle between the vertical arm of the SCMD when it is inclined at the angle of the backrest and the top of the base plate

Note 1 to entry: See Figure 12, Figure 13 and Figure D.33.

3.20

width of the armrest (o)

minimum distance between the sides of the armrest/armrest pad, measured at 5 mm below the top surface of the armrest

Note 1 to entry: See Figure 11.

3.21

height of the armrest above the seat (p)

vertical distance between the top of the armrests and the bottom of the rear pins of the SCMD

Note 1 entry: See Figure 11.

3.22

distance from the backrest to the front of the armrest (q)

maximum horizontal distance between MFP and the front of the top of the armrest, the position of which is determined by the SCMD

Note 1 to entry: See Figure 11.

3.23

width between the armrests (*r*)

minimum horizontal distance between the armrests/armrest pads

Note 1 to entry: See Figure 11.

3.24

length of the armrest (*n*)

greatest length in the fore and aft direction of the armrest horizontally within 20 mm below the highest point

Note 1 to entry: See Figure 11.

3.25

distance between MFP and the back of the seat pad (*x*)

horizontal distance on the median plane between the rear edge of the seat and the vertical projection of MFP

Note 1 to entry: See Figure 12 and Figure 13.

3.26

buttock zone (*u*)

space below the MFP and between the rear of the buttocks plate and the back of the chair as determined by the SCMD

Note 1 to entry: See Figure 10.

3.27

raised side edges (*e*)

vertical distance from the top of sides to the seat surface between the side edges of seat as defined by the SCMD

4 Functional dimensions for chairs, corresponding tables and stools

4.1 General

All chairs, tables and stools shall be assessed according to EN 1729-1, before being tested according to EN 1729-2.

The stature and popliteal height ranges shown in Table 1, Table 2, Table B.1, Table B.2, Table 5 do not include any allowance for shoes. All chair and table heights include an allowance for shoes. See also Annex E (Rationale).

When measured in accordance with Annex D, the functional dimensions and corresponding size marks and colour codes for chairs with slopes between -5° and $+7^\circ$ shall be as specified in Table 1.

The functional dimensions and corresponding size marks and colour codes for tall chairs shall be as specified in Table 1. Tables suitable for tall chairs cannot be size marked. Table heights shall correspond to the height of tall chairs as specified in Table 4.

The functional dimensions and corresponding size marks and colour codes for tables shall be as specified in Table 2 and in Table 3.

The functional dimensions and corresponding size marks and colour codes for standing-height tables except for height shall be as specified in Table 2 and in Table 3. The table heights of standing tables shall be as specified in Table 5.

The functional dimensions and corresponding size marks and colour codes for stools shall be as specified in Table 6 and in Table 7. Worksurfaces shall correspond to the height of stools as specified in Table 6.

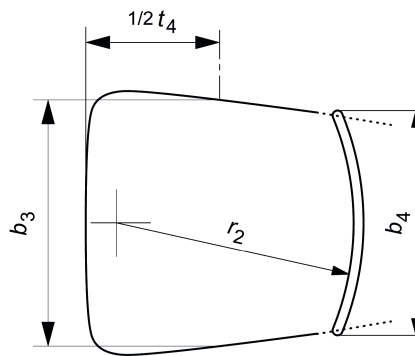
4.2 Functional dimensions and size marks for chairs with slopes between -5° and $+7^\circ$ and associated tables

The dimensions and angles, size marks when measured in accordance with Annex D and colour codes for chairs shall be as specified in Table 1.

Where dimensions are stated as ranges, the measured dimension shall be any value in this range.

Chairs with size marks 3 to 7 shall have sufficient buttocks zone as verified by D.1.4 h).

Chairs with size marks 3 to 7 shall have a lumbar support which is verified by D.1.5 c).

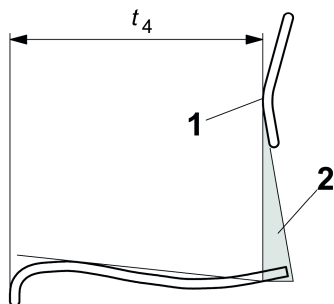


Key

b_3	width of seat
b_4	width of backrest
r_2	horizontal radius of backrest
t_4	effective depth of seat

Figure 9 — Key dimensions of a chair (plan view)

NOTE 1 Dimension t_4 (seat depth) is shown schematically in Figure 9, the dimensions are determined by the SCMD for size marks 3 to 7.



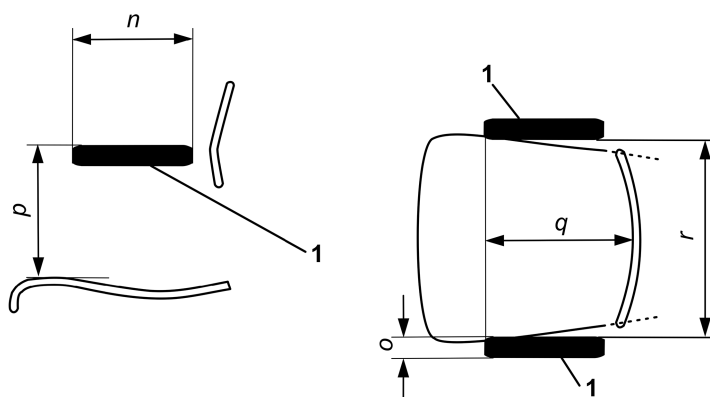
Key

- 1 MFP
- 2 buttock zone
- t_4 effective depth of seat (to be corrected to be shown as along the surface of seat)

Figure 10 — Key dimensions of a chair (section view) and the buttock zone (shaded area)

NOTE 2 Dimension t_4 (seat depth) is shown schematically in Figure 10, the dimensions are determined by the SCMD for size marks 3 to 7.

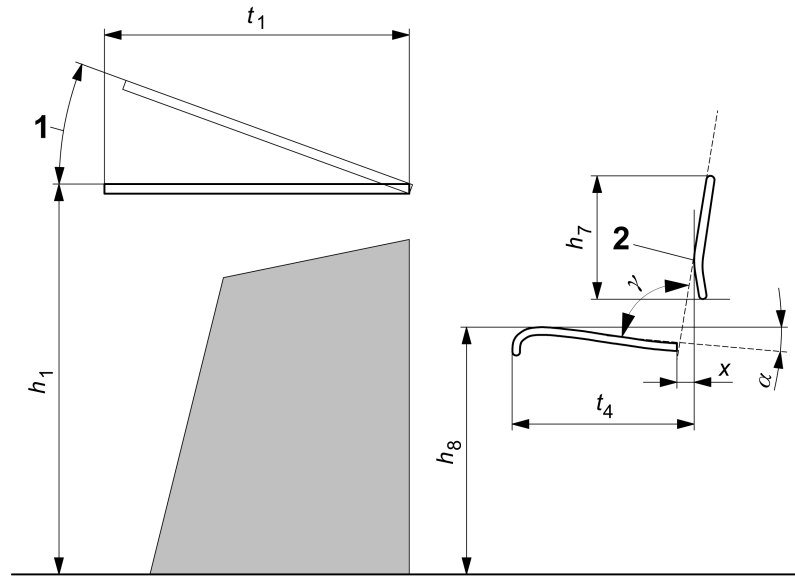
Dimensions in millimetres



Key

- 1 armrest (to be pointed at Black rectangles)
- n length of armrest
- o width of armrest
- p height of armrest above the seat
- q distance from backrest to front of armrest
- r width between armrests

Figure 11 — Key dimensions for armrests

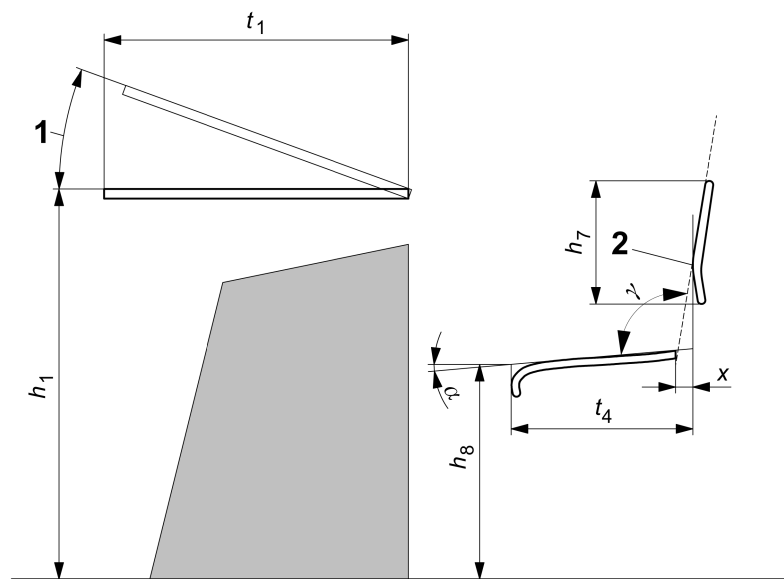


Key

- 1 inclination of the table top
- 2 MFP
- α inclination of single-sloped seat
- γ angle between seat and backrest
- h_1 height of table top
- h_7 height of backrest
- h_8 height of seat
- t_1 depth of table top
- t_4 effective depth of seat
- x distance between MFP and back of seat pad

Figure 12 — Key dimensions of a chair with a negative seat angle and associated table

NOTE 4 Dimensions t_4 (seat depth) and h_7 (backrest height) are shown schematically in Figure 12, the dimensions are determined by the SCMD for size marks 3 to 7.



Key

- 1 inclination of the table top
- 2 MFP
- α inclination of single-sloped seat
- γ angle between seat and backrest
- h_1 height of table top
- h_7 height of backrest
- h_8 height of seat
- t_1 depth of table top
- t_4 effective depth of seat
- x distance between MFP and back of seat pad

Figure 13 — Key dimensions of a chair with a positive seat angle and associated table

NOTE 5 Dimensions t_4 (seat depth) and h_7 (backrest height) are shown schematically in Figure 13, the dimensions are determined by the SCMD for size marks 3 to 7.

Table 1 — Dimensions and size marks for chairs with single-sloped seats

Dimensions in millimetres unless otherwise stated

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Guidance for suitable Popliteal height range (without shoes)	200 – 250	250 – 280	280 – 315	315 – 355	355 – 405	405 – 435	435 – 485	485+
Guidance for suitable Stature range (without shoes)	800 – 950	930 – 1 160	1 080 – 1 210	1 190 – 1 420	1 330 – 1 590	1 460 – 1 765	1 590 – 1 880	1 740 – 2 070

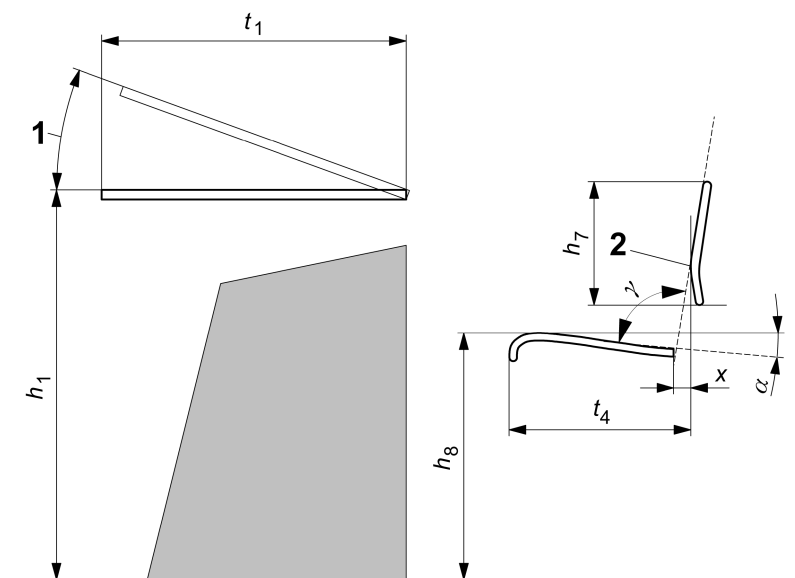
Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
h_8 Height of seat ± 10	210	260	310	350	380	430	460	510
t_4 Effective depth of seat ± 15 (0-2), ± 25 (3-7)	n/a	n/a	n/a	300	340	380	420	460
b_3 Seat width (min)	210	240	280	320	340	360	380	400
e Raised edge (max)	15	15	15	15	25	25	25	25
x Distance between MFP and back of seat pad (max)	n/a	n/a	n/a	30	30	50	50	50
h_7 Backrest height (min)	100	100	100	100	100	100	100	100
b_4 Width of backrest (min)	n/a	n/a	n/a	260	270	300	330	360
r_2 Horizontal radius of backrest (min)	n/a	n/a	n/a	300	300	300	300	300
α Inclination of seat	n/a	n/a	n/a	-5° to +7°	-5° to +7°	-5° to +7°	-5° to +7°	-5° to +7°
γ Angle between seat and backrest	n/a	n/a	n/a	95° to 110°	95° to 110°	95° to 110°	95° to 110°	95° to 110°
p Height of armrest above seat -20 to +10	n/a	n/a	n/a	170	190	210	230	250
r Width between arms	n/a	n/a	n/a	360 - 410	390 - 440	420 - 470	460 - 510	510 - 570
q Distance from backrest to front edge of armrest (max)	n/a	n/a	n/a	n/a	225	250	275	300
o Width of armrest (min)	n/a	n/a	n/a	n/a	20	20	20	20
n Length of armrest (min)	n/a	n/a	n/a	n/a	80	80	80	80
Depth of footrest (min)	n/a	n/a	n/a	n/a	40	40	40	40
Length of footrest (min)	n/a	n/a	n/a	300	300	300	300	300

4.3 Functional dimensions and size marks for tables for use with single sloped chairs

4.3.1 General

Tabletops may be horizontal, with a fixed inclination or inclinable by the user. If the tabletop is user inclinable, it shall be possible to adjust it to a horizontal position.

Tabletops which are or can be inclined are recommended.



Key

- 1 inclination of the table top
- 2 MFP
- α inclination of single-sloped seat
- γ angle between seat and backrest
- h_1 height of table top
- h_7 height of backrest
- h_8 height of seat
- t_1 depth of table top
- t_4 effective depth of seat
- x distance between MFP and back of seat pad

Figure 14 — Key dimensions of a chair with a negative seat angle and associated table

NOTE Dimensions t_4 (seat depth) and h_7 (backrest height) are shown schematically in Figure 14, the dimensions are determined by the SCMD for size marks 3 to 7.

4.3.2 Dimensions and size marks for tables for use with chairs with seat slopes between -5° and $+7^\circ$

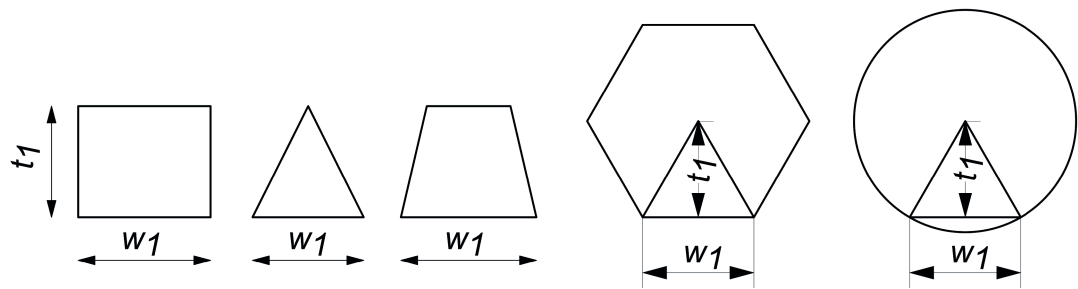
4.3.2.1 General

Dimensions and size mark of tables shall be as specified as in Table 2, Figure 14 and Figure 15.

Table 2 — Dimensions and size marks for tables for use with chairs with seat slopes between -5° and $+7^{\circ}$

Dimensions in millimetres unless otherwise stated

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Guidance for suitable popliteal height range (without shoes)	200 – 250	250 – 280	280 – 315	315 – 355	355 – 405	405 – 435	435 – 485	485+
Guidance for suitable stature range (without shoes)	800 – 950	930 – 1 160	1 080 – 1 210	1 190 – 1 420	1 330 – 1 590	1 460 – 1 765	1 590 – 1 880	1 740 – 2 070
Fixed table top inclination (fixed) (max)	20°	20	20	20	20	20	20	20
Adjustable table top inclination range ^d (min)	0° - 10°	0° - 10°	0° - 10°	0° - 10°	0° - 10°	0° - 10°	0° - 10°	0° - 10°
h_1 Height of top ± 20	400	460	530	590	640	710	760	820
t_1 Depth of top (min)	-	500 ^a	500 ^a	500 ^a	500	500	500	500
w_1 Width of top, per person at front edge, where pupils sit (min)	-	600 ^b	600 ^b	600 ^b	600 ^b	600	600	600
Surface area per person (min)	-	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²
Horizontal distance between front legs/structure, where pupils sit, per person (min)	-	500 ^c	500 ^c	500 ^c	500 ^c	500	500	500
^a Can be reduced to 400 mm (only when required by educational conditions). ^b Can be reduced to 550 mm (only when required by educational conditions). ^c Can be reduced to 450 mm (only when required by educational conditions). ^d If adjustable inclination, it shall include 0 ± 1 degrees.								



Key

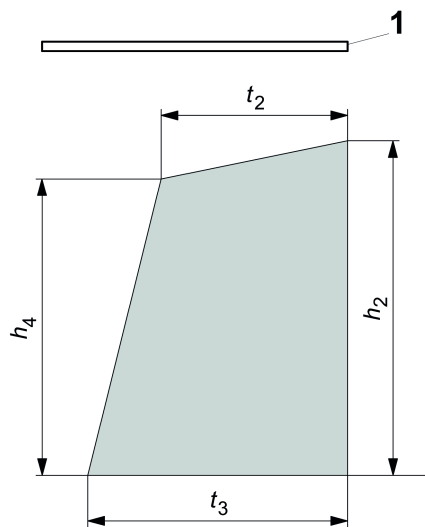
- t_1 depth of top
- w_1 width of top, per person at front edge, where pupils sit

Figure 15 — Examples of different table tops

4.3.2.2 Legroom

Legroom beneath the worksurfaces (tables and desks) shall be provided for each size mark in accordance with the minimum dimensions as shown in Table 3 and Figure 16.

The legroom shall be measured by placing the template on the floor or on the footrest with its higher end in line with the front edge of the table, where pupils sit, transversing between the legs of the table. Overlapping of legroom templates is acceptable for a group of tables.



Key

- 1 front of table top
- h_2 legroom height at front of table top (from floor or from footrest to underside of table top)
- h_4 height of back of legroom (from floor or from footrest to underside of table top)
- t_2 depth of top of legroom
- t_3 depth of bottom of legroom

Figure 16— Legroom template

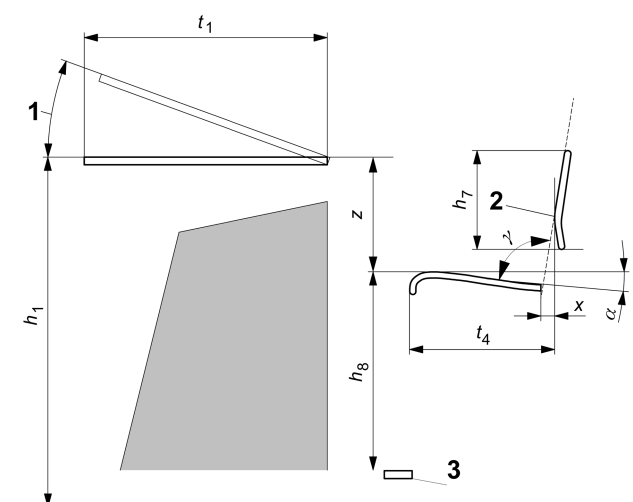
Table 3 — Minimum legroom template dimensions for tables for use with chairs with seat slopes between -5° and $+7^\circ$

Dimensions in millimetres

Size marks								
	0	1	2	3	4	5	6	7
h_2	325	380	440	495	545	610	665	725
h_4	275	325	375	420	465	520	565	620
t_2	300	300	300	300	400	400	400	400
t_3	400	400	400	400	500	500	500	500

The minimum width of the legroom is given in Table 2 (horizontal distance between front legs/structure, where pupils sit, per person).

4.3.2.3 Dimensions and size marks for tables for use with tall chairs with seat slopes between -5° and $+7^\circ$



Key

- 1 inclination of the table top (the maximum value for a fixed or inclinable table top is 20°)
- 2 MFP
- 3 footrest
- α inclination of single-sloped seat
- γ angle between seat and backrest
- h_1 height of table top
- h_7 height of backrest
- h_8 height of seat
- t_1 depth of table top
- t_4 effective depth of seat
- x distance between MFP and back of seat pad
- z vertical distance between the top of the table and the top of the seat

Figure 17 — Key dimensions of a tall chair with a negative seat angle and associated table

NOTE Dimensions t_4 (seat depth) and h_7 (backrest height) are shown schematically in Figure 17, the dimensions are determined by the SCMD for size marks 3 to 7.

Dimensions and size mark of tall tables except for the tabletop height (h_1) tables shall be as specified as in Table 2 and Figure 17.

The height of tabletops (h_1) that are intended for use with tall chairs cannot be size marked. It is the vertical distance between the top of the table and the top of the seat that defines the table's suitability. This distance (z) is shown in Table 4. The distance (z) shall be used in matching table height to tall chairs. All other dimensions for tall tables to be used with tall chairs shall be as given in Table 2 and Table 3.

The table shall be marked with its height (distance from the floor to the top of the table). This information could be provided on a label directly or via a web address, QR-code or other suitable application.

Table 4 — Distance between top of table and top of seat of a tall chair matching each size mark

Size mark	z (mm) (±10 mm)
0	150
1	150
2	160
3	170
4	190
5	210
6	230
7	250

4.3.3 Functional dimensions and sizemarks for standing-height tables

The dimensions except for table height, size marks and colour codes for standing-height tables shall be as given in Table 2. Height of standing tables shall be as specified in Table 5.

Table 5 — Dimensions and size marks for standing-height tables

Dimensions in millimetres unless otherwise stated

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Guidance for suitable standing elbow height range (without shoes)			630 - 720	710 - 870	800 - 990	910 - 1 130	990 - 1 180	1 120 - 1 280
Guidance for suitable stature range (without shoes)	800 - 950	930 - 1 160	1 080 - 1 210	1 190 - 1 420	1 330 - 1 590	1 460 - 1 765	1 590 - 1 880	1 740 - 2 070
h_1 Height of top ± 20	530	590	670	760	880	1 000	1 060	1 200

Height adjustable tables are recommended.

The ergonomic criterion for the height of standing-height tables is the standing elbow height plus shoe allowance. In order to undertake general classroom work at a fixed height standing-height table, shorter pupils are caused to raise their arms and elbows while taller pupils are caused to stoop, which can result in backache. Hence the dimensions given in Table 5 are a compromise to minimize stooping without forcing the shorter pupils to raise their elbows excessively.

4.3.4 Requirements for adjustable and multi-size chairs and tables

Adjustment controls shall:

- a) be easily accessible to the user;
- b) be possible to operate without the need for special tools.

Adjustable furniture (chairs and tables) designed to cover a range of size marks shall comply with the dimensional requirements of each size mark covered (see Table 1 and Table 2).

Adjustments may be continuous or in fixed steps.

Multi-size furniture (chairs and tables) designed to cover a range of size marks shall comply with the dimensional requirements of each size mark covered (see Table 1 and Table 2).

It shall be possible to identify the size marks to which the furniture can be adjusted to.

Examples of dimensions of adjustable chairs and tables are given in Annex A.

4.3.5 Functional dimensions for stools and associated worksurfaces

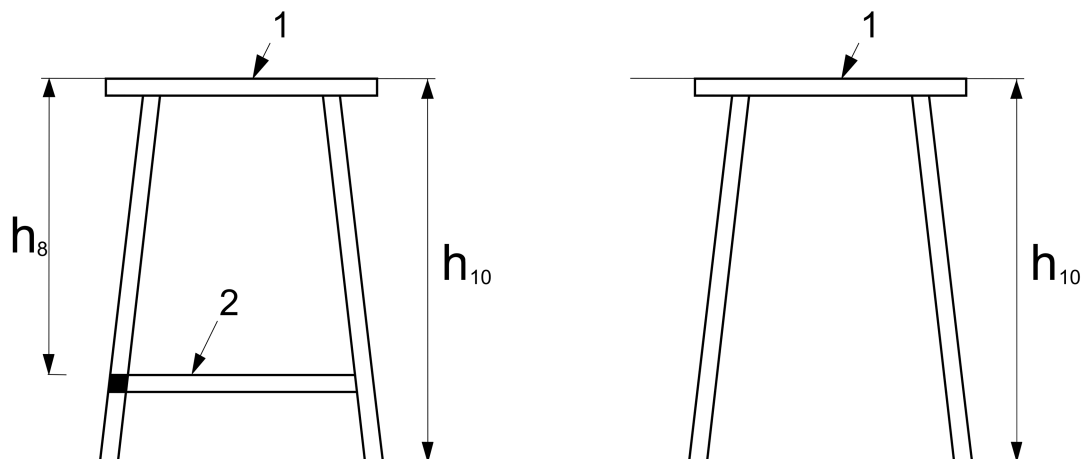
4.3.5.1 General

Stools are intended for use for short periods.

Seat angles of stools shall be $+0^\circ/-2^\circ$.

4.3.5.2 Functional dimensions for stools

Stool seat height (h_8) for stools and corresponding height of work surfaces shall be as given in Tables 6 and Table 7 and as shown in Figure 18 and Figure 19.



Key

- 1 stool seat
- 2 footrest
- h_8 seat height for stools
- h_{10} total stool height

Figure 18 — Key dimensions of a stool

Table 6 — Dimensions of stools for use with worksurfaces with clear legroom underneath

Dimensions in millimetres

Size mark	Colour code	Corresponding worksurface (counter) height ($= h_{10} + z$) Value of "z" is given in Table 4	Stool seat height (from seat surface to top of footrest) (h_8) Value of " h_8 " is as shown in Table 1
0		-	-
1		-	-
2	Violet	$(h_{10} + 160) \pm 10$	310 ± 15
3	Yellow	$(h_{10} + 170) \pm 10$	350 ± 15
4	Red	$(h_{10} + 190) \pm 10$	380 ± 15
5	Green	$(h_{10} + 210) \pm 10$	430 ± 15
6	Blue	$(h_{10} + 230) \pm 10$	460 ± 15
7	Brown	$(h_{10} + 250) \pm 10$	510 ± 15