

# DIN EN 1729-2:2023-07 (E)

## Furniture - Chairs and tables for educational institutions - Part 2: Safety requirements and test methods

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
<b>1</b>	<b>Scope .....</b>	<b>6</b>
<b>2</b>	<b>Normative references .....</b>	<b>6</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>6</b>
<b>4</b>	<b>General test conditions .....</b>	<b>7</b>
4.1	Testing ranges of chairs and tables .....	7
4.2	Testing of height adjustable and multi-size chairs and tables .....	7
4.3	Sequence of testing .....	7
<b>5</b>	<b>Safety requirements .....</b>	<b>8</b>
5.1	General safety requirements .....	8
5.2	Additional safety requirements for chairs sizemarks 0 to 3 .....	9
5.3	Additional safety requirements for chairs sizemarks 0 and 1 .....	9
<b>6</b>	<b>Testing of chairs .....</b>	<b>10</b>
6.1	General .....	10
6.2	Stability .....	11
6.2.1	General .....	11
6.2.2	Forwards overturning .....	11
6.2.3	Sideways overturning .....	12
6.2.4	Rearwards overturning for all chairs with backrests .....	14
6.2.5	Additional overturning requirements for chairs with reclining backrests .....	15
6.2.6	Corner stability .....	15
6.3	Strength and durability .....	15
6.3.1	General .....	15
6.3.2	Seat and back static load .....	15
6.3.3	Seat and back durability .....	16
6.3.4	Seat front edge durability .....	17
6.3.5	Leg sideways static load .....	18
6.3.6	Leg forward static load .....	19
6.3.7	Seat impact .....	20
6.3.8	Back impact .....	20
6.3.9	Foot rail static load .....	21
6.3.10	Drop test .....	22
6.3.11	Foot rest durability .....	22
6.3.12	Armrest durability test .....	23
6.3.13	Armrest static load .....	23
6.3.14	Side to side durability test .....	23
6.3.15	Vertical static load on auxiliary writing surfaces .....	24
6.3.16	Auxiliary writing surface durability test .....	24
<b>7</b>	<b>Testing of tables .....</b>	<b>24</b>
7.1	Stability .....	24
7.1.1	General .....	24
7.1.2	Stability of tables, vertical load .....	24
7.1.3	Stability of tables, horizontal impact .....	24
7.2	Strength and durability of tables .....	25

7.2.1	General .....	25
7.2.2	Horizontal static load .....	25
7.2.3	Horizontal durability .....	26
7.2.4	Vertical static load .....	27
7.2.5	Vertical durability .....	27
8	Test report .....	28
Annex A (informative) Test method for determination of the displacement of chairs placed on tabletops .....		29
A.1	General .....	29
A.2	Test equipment .....	29
A.2.1	Impact hammer .....	29
A.2.2	Tabletop .....	29
A.3	Test method .....	29
Bibliography .....		30