

DIN EN 1729-2:2012-04 (E)

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

| Contents | | Page |
|----------------------------|---|-------------|
| Foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | General test conditions | 4 |
| 3.1 | Testing ranges of chairs and tables | 4 |
| 3.2 | Testing of height adjustable and multi-size chairs and tables | 5 |
| 3.3 | Sequence of testing | 5 |
| 4 | Safety requirements | 5 |
| 5 | Testing of chairs | 6 |
| 5.1 | General | 6 |
| 5.2 | Stability | 7 |
| 5.2.1 | General | 7 |
| 5.2.2 | Forward stability | 7 |
| 5.2.3 | Sideways stability | 8 |
| 5.2.4 | Rearwards stability | 10 |
| 5.2.5 | Chairs with backrest inclination | 10 |
| 5.3 | Strength and durability | 11 |
| 5.3.1 | General | 11 |
| 5.3.2 | Seat and back static load (EN 1728:2000, 6.2.1) | 11 |
| 5.3.3 | Seat and back durability (EN 1728:2000, 6.7) | 12 |
| 5.3.4 | Seat front edge durability (EN 1728:2000, 6.8) | 12 |
| 5.3.5 | Sideways static load (EN 1728:2000, 6.13) | 13 |
| 5.3.6 | Forward static load (EN 1728:2000, 6.12) | 14 |
| 5.3.7 | Seat impact (EN 1728:2000, 6.15) | 14 |
| 5.3.8 | Back impact (EN 1728:2000, 6.16) | 15 |
| 5.3.9 | Static load of foot rail (EN 1728:2000, 6.4) | 16 |
| 5.3.10 | Drop test (Annex A) | 16 |
| 5.3.11 | Foot rail durability (EN 15373:2007, A.5 - General) | 17 |
| 5.3.12 | Armrest vertical static load (EN 1728:2000, 6.6) | 17 |
| 6 | Testing of tables | 18 |
| 6.1 | Stability | 18 |
| 6.1.1 | General | 18 |
| 6.1.2 | Stability of tables, vertical load (EN 1730:2000, 6.7) | 18 |
| 6.2 | Strength and durability of tables | 18 |
| 6.2.1 | General | 18 |
| 6.2.2 | Horizontal static load (EN 1730:2000, 6.2) | 18 |
| 6.2.3 | Horizontal durability (EN 1730:2000, 6.4) | 19 |
| 6.2.4 | Vertical static load (EN 1730:2000, 6.3) | 20 |
| 6.2.5 | Vertical durability (EN 1730:2000, 6.5) | 21 |
| 7 | Test report | 21 |
| Annex A (normative) | Drop test of chairs | 22 |

| | |
|--|-----------|
| Annex B (informative) Test method for determination of the displacement of chairs placed on | |
| tabletops | 23 |
| B.1 General | 23 |
| B.2 Test equipment | 23 |
| B.3 Test method | 23 |