

DIN EN 71-14:2015-03 (E)

Safety of toys - Part 14: Trampolines for domestic use

| Contents | Page |
|---|-----------|
| Foreword | 4 |
| 1 Scope (see A.1) | 6 |
| 2 Normative references | 6 |
| 3 Terms and definitions | 6 |
| 4 General requirements | 9 |
| 4.1 Exemptions from certain requirements in EN 71-1 (see A.2) | 9 |
| 4.2 Trampoline categories | 9 |
| 4.3 General requirements for the trampoline construction (see A.3) | 9 |
| 4.3.1 Requirements for mini-trampolines (see 4.2) | 9 |
| 4.3.2 Requirements for medium and large trampolines (see 4.2) | 10 |
| 4.3.3 Requirements for all trampoline categories | 10 |
| 4.4 Durability of materials (see A.4) | 11 |
| 4.4.1 Metallic parts | 11 |
| 4.4.2 Non metallic parts | 11 |
| 4.5 Entrapment (see A.5) | 11 |
| 4.5.1 Finger entrapment | 11 |
| 4.5.2 Head and neck entrapment | 11 |
| 4.5.3 Foot entrapment | 12 |
| 4.6 Pinching and crushing hazards (see A.6) | 12 |
| 4.7 Sharp edges, sharp points and protruding parts | 13 |
| 4.7.1 General | 13 |
| 4.7.2 Sharp edges and sharp points | 13 |
| 4.7.3 Protruding parts | 13 |
| 4.8 Access devices | 13 |
| 4.9 Padding (see A.7) | 13 |
| 4.9.1 Padding coverage | 13 |
| 4.9.2 Impact resistance of the frame padding and the suspension system | 14 |
| 4.9.3 Protection of the poles | 14 |
| 4.9.4 Protection of the handrails (for mini-trampolines) | 14 |
| 4.10 Strength (see A.8) | 14 |
| 4.10.1 Vertical strength of the enclosure | 14 |
| 4.10.2 Frame strength | 14 |
| 4.10.3 Dynamic strength of enclosures | 14 |
| 4.10.4 Strength of the fixations of the padding to the frame | 14 |
| 4.10.5 Static strength of access devices | 15 |
| 4.10.6 Strength of mat, suspension system and frame | 15 |
| 4.11 Mat deflection (see A.9) | 15 |
| 4.12 Stability | 15 |
| 5 Warnings, markings and instructions | 15 |
| 5.1 General | 15 |
| 5.2 Warnings and markings on the product (see A.10) | 16 |
| 5.2.1 General | 16 |
| 5.2.2 Marking of the centre of the mat | 16 |
| 5.3 Warnings and markings on the packaging | 17 |
| 5.4 Warnings and information in the instructions for use | 17 |
| 5.4.1 Warnings | 17 |
| 5.4.2 Information | 18 |

| | | |
|---|--|-----------|
| 5.4.3 | Assembly and maintenance instructions | 18 |
| 6 | Test methods | 19 |
| 6.1 | Dynamic tests | 19 |
| 6.1.1 | Padding impact test (see 4.9.2) | 19 |
| 6.1.2 | Enclosure and poles impact strength test (see 4.3.3.1 and 4.10.3) | 19 |
| 6.2 | Strength | 21 |
| 6.2.1 | Vertical strength of the enclosure (see 4.10.1) | 21 |
| 6.2.2 | Frame strength (see 4.10.2) | 22 |
| 6.2.3 | Strength test of mat, suspension system and frame (see 4.10.6) | 24 |
| 6.2.4 | Strength of the padding fixations to the frame (see 4.10.4) | 24 |
| 6.2.5 | Static strength of access devices (see 4.10.5) | 24 |
| 6.3 | Stability (see 4.12) | 24 |
| 6.3.1 | Stability of the frame | 24 |
| 6.3.2 | Enclosure and poles impact stability test | 25 |
| 6.4 | Testing of the assembly (see 4.3.3.1 and 4.3.3.2) | 26 |
| 6.5 | Durability tests (see 4.4) | 27 |
| 6.5.1 | Metallic parts (see 4.4.1) | 27 |
| 6.5.2 | Non metallic parts | 27 |
| 6.6 | Mat deflection test (see 4.6, 4.9.1 and 4.11) | 27 |
| Annex A (informative) Rationale | | 29 |
| A.1 | Scope (see Clause 1) | 29 |
| A.2 | General (see 4.1 and 4.3.3) | 29 |
| A.3 | Enclosures (see 4.3) | 29 |
| A.4 | Durability of materials (see 4.4) | 31 |
| A.5 | Entrapment (see 4.5) | 31 |
| A.6 | Pinching and crushing hazards (see 4.6) | 31 |
| A.7 | Padding (see 4.9) | 32 |
| A.8 | Strength test (see 4.10) | 32 |
| A.9 | Mat deflection (see 4.11) | 32 |
| A.10 | Warnings and markings on the product (see 5.2) | 32 |
| Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2009/48/EC on the safety of toys | | 33 |
| Bibliography | | 34 |