DIN EN 71-14:2025-12 (E)

Safety of toys - Part 14: Trampolines for domestic use

Contents

Page

European foreword 4

1 Scope 7

2 Normative references 7

3 Terms and definitions 8

4 Trampoline categories 11

5 Requirements 11
5.1 General requirements for the trampoline construction (see A.3) 11
5.1.1 Requirements for mini-toy-trampolines (see Clause 4) 11
5.1.2 Requirements for medium and large toy trampolines (see Clause 4) 11
5.1.3 Requirements for all toy trampoline categories 13
5.2 Resistance of materials subject to weathering (see A.4) 14
5.2.1 Metallic parts 14
5.2.2 Non-metallic parts 14
5.3 Entrapment (see A.5) 14
5.3.1 Finger entrapment 14
5.3.2 Head and neck entrapment 15
5.3.3 Foot entrapment 15
5.4 Pinching and crushing hazards (see 7.7 and A.6) 16
5.5 Sharp edges, sharp points and protruding parts 16
5.5.1 General 16
5.5.2 Sharp edges and sharp points 16
5.5.3 Protruding parts 16
5.6 Access devices 16
5.7 Padding (see 7.7 and A.7) 17
5.7.1 Padding coverage 17
5.7.2 Impact resistance of the frame padding and the suspension system 17
5.7.3 Protection of the poles 17
5.7.4 Protection of the handrails (for mini-toy-trampolines) 17
5.8 Strength (see A.8) 18
5.8.1 Vertical strength of the enclosure 18
5.8.2 Frame strength 18
5.8.3 Dynamic strength of enclosures 18
5.8.4 Strength of the fixations of the padding to the frame 18
5.8.5 Static strength of access devices 18
5.8.6 Strength of mat, suspension system and frame 18
5.9 Mat deflection (see A.9) 18
5.9.1 Non-buried toy trampolines 18
5.9.2 Buried toy trampolines 18
5.10 Stability 19
5.11 Tool for assessing a correct hole depth for buried toy trampolines 19

6 Warnings, markings and instructions (see A.10) 19
6.1 General 19
6.2 Warnings and markings on the product (see A.10) 19
6.2.1 General 19
6.2.2 Marking of the centre of the mat 20
6.3 Warnings and markings on the packaging (see A.10) 21

6.4 Warnings and information in the instructions for use (see A.10) 22
6.4.1 Warnings 22
6.4.2 Information 23
6.4.3 Assembly and maintenance instructions 23

7 Test methods 24
7.1 Dynamic tests 24
7.1.1 Padding impact test (see 5.7.2) 24
7.1.2 Enclosure and poles impact strength test (see 5.1.3.1 and 5.8.3) 24
7.2 Strength 26
7.2.1 Vertical strength of the enclosure (see 5.8.1) 26
7.2.2 Frame strength (see 5.8.2) 27
7.2.3 Strength test of mat, suspension system and frame (see 5.8.6) 29
7.2.4 Strength of the padding fixations to the frame (see 5.8.4) 29
7.2.5 Static strength of access devices (see 5.8.5) 29
7.3 Stability (see 5.10) 29
7.3.1 Stability of the frame 29
7.3.2 Enclosure and poles impact stability test 30
7.4 Testing of the assembly (see 5.1.3.1 and 5.1.3.2) 31
7.5 Weathering resistance tests (see 5.2) 33
7.5.1 Metallic parts (see 5.2.1) 33
7.5.2 Non-metallic parts 33
7.6 Mat deflection test (see 5.9) 33
7.6.1 Buried toy trampolines 33
7.6.2 Non-buried toy trampolines 34
7.7 Test for padding and for pinching and crushing hazards (see 5.4 and 5.7.1) 35
7.8 Test for retaining wall system (see 5.1.2.3) 35

Annex A (informative) Background and rationale 37

A.1 Scope (see Clause 1) 37
A.2 General (5.1.3) 37
A.3 Enclosure and soft surface (see 5.1) 38
A.4 Materials subject to weathering (see 5.2) 39
A.5 Entrapment (see 5.3) 40
A.6 Pinching and crushing hazards (see 5.4) 40
A.7 Padding (see 5.7) 41
A.8 Strength test (see 5.8) 41
A.9 Mat deflection (see 5.9) 41
A.10 Warnings and markings (see 6.2, 6.3 and 6.4) 42
A.11 Skirt to prevent children, animals or objects to end up under the mat 43

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2009/48/EC aimed to be covered 44

Bibliography 45