

ISO 8124-4:2025-06 (E)

Safety of toys - Part 4: Activity toys for domestic use

Contents		Page
Foreword		vi
Introduction		ix
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Requirements	6
4.1	General (see Clause A.4)	6
4.1.1	Materials	6
4.1.2	Hardware	6
4.1.3	Static strength	7
4.1.4	Maximum height	7
4.1.5	Corners and edges	7
4.1.6	Protruding parts	7
4.1.7	Diameter of ropes and other means of suspension	10
4.1.8	Open tubing	11
4.1.9	Crush and shear points	11
4.1.10	Hand support: hand-gripping/grasping components	11
4.2	Barriers	11
4.3	Rung ladders, stepladders and stairways	12
4.3.1	General	12
4.3.2	Handrails and hand support	13
4.4	Entrapment (see Clause A.8)	14
4.4.1	Head and neck entrapment	14
4.4.2	Entrapment of clothing and hair	16
4.4.3	Entrapment of feet	16
4.4.4	Entrapment of fingers	16
4.5	Stability of activity toys other than slides, swings and toys with crossbeams	17
4.5.1	General	17
4.5.2	Stability of activity toys with a free height of fall of 600 mm or less	17
4.5.3	Stability of activity toys with a free height of fall of more than 600 mm	17
4.6	Slides (see Clause A.9)	17
4.6.1	General	17
4.6.2	Stability of slides	17
4.6.3	Retaining sides for slides	18
4.6.4	Starting, sliding and run-out section on slides	18
4.6.5	Roller slides	21
4.7	Swings and other activity toys with crossbeams (see Clause A.10)	21
4.7.1	General	21
4.7.2	Stability of swings and other activity toys with crossbeams	21
4.7.3	Strength of crossbeams, swing devices, suspension connectors and suspension couplings	22
4.7.4	Swings intended for children under 36 months	22
4.7.5	Impact, geometry and design of swing elements	22
4.7.6	Minimum clearance between adjacent swing elements and adjacent structures	23
4.7.7	Lateral stability of swing elements	24
4.7.8	Minimum clearance between swing elements and the ground	25
4.7.9	Suspension connectors and swing devices	26

4.8	See-saws	27
4.8.1	General	27
4.8.2	Stability of see-saws	27
4.8.3	Seat/stand height	27
4.8.4	Restraint of motion	27
4.8.5	Pinching and crushing of fingers and toes	27
4.8.6	Hand supports	27
4.9	Carousels and rocking activity toys	27
4.10	Inflatable activity toys (see Clause A.15)	27
4.10.1	General	27
4.10.2	Anchorage	28
4.10.3	Connection tubes for continuous inflation	28
4.10.4	Containment	29
4.11	Paddling pools	30
4.11.1	General	30
4.11.2	Static strength of paddling pools with non-inflatable walls	30
4.11.3	Paddling pools with inflatable walls	30
5	Warnings and labelling	30
5.1	Labelling	30
5.2	Assembly and installation instructions	30
5.2.1	General	30
5.2.2	Information on playground surfacing materials	31
5.2.3	Paddling pools	31
5.3	Operating instructions	32
5.4	Maintenance instructions	32
5.5	Warnings	33
5.5.1	Drowning	33
5.5.2	Inflatable activity toys	33
5.5.3	Paddling pools	33
6	Test methods	34
6.1	General	34
6.2	Stability	35
6.2.1	Stability of activity toys with a free height of fall of 600 mm or less (see 4.5.2 and 4.9)	35
6.2.2	Stability of activity toys with a free height of fall of more than 600 mm (see 4.5.3)	36
6.2.3	Stability of slides (see 4.6.2)	36
6.2.4	Stability of swings and other activity toys with crossbeams (see 4.7.2)	37
6.2.5	Stability of toddler swings (see 4.7.4.2)	40
6.2.6	Stability of see-saws	43
6.3	Static strength	44
6.3.1	General	44
6.3.2	Strength of toys other than swings and paddling pools (see 4.1.3 and 4.9)	44
6.3.3	Strength of swings (see 4.7.3)	46
6.4	Dynamic strength of barriers (see 4.2)	47
6.4.1	Principle	47
6.4.2	Apparatus	47
6.4.3	Procedure	47
6.5	Determination of impact from swing elements (see 4.7.5.2)	48
6.5.1	Principle	48
6.5.2	Apparatus	48
6.5.3	Preparations	49
6.5.4	Testing	50
6.6	Test for head and neck entrapment	52
6.6.1	Head and neck entrapment in accessible completely-bound openings (see 4.2 and 4.4.1)	52
6.6.2	Head and neck entrapment in partially-bound and V-shaped openings (see 4.4.1)	53
6.7	Toggle test (see 4.4.2)	59
6.7.1	Principle	59
6.7.2	Apparatus	59
6.7.3	Procedure	60
6.8	Test for protrusions (see 4.1.6)	62

6.8.1	All protrusions (see 4.1.6.1, 4.1.6.2 and 4.1.6.3)	62
6.8.2	Protrusions in motion rides (see 4.1.6.4 and 4.1.6.5)	64
6.9	Durability test for suspension connectors and means of suspension (see 4.7.9)	65
6.9.1	Principle	65
6.9.2	Apparatus	65
6.9.3	Procedure	65
6.9.4	Alternate procedure	66
6.10	Deflation of inflatable activity toys	66
6.10.1	Principle	66
6.10.2	Apparatus	67
6.10.3	Procedure	67
6.11	Static load test for paddling pools with non-inflatable walls (see 4.11.2)	67
6.12	Diameter of ropes and other means of suspension	67
6.13	Measurements of sliding and run-out sections on slides (see 4.6.4)	67
6.13.1	Measurement of inclination of the sliding section on slides [see 4.6.4 d)]	67
6.13.2	Measurement of the minimum angle along the sliding section and the run-out section on slides [see 4.6.4 e)]	68
6.14	Measurement of the height of falling protection of swings with double seats and examination of gaps between the swing seat and the falling protection	69
Annex A (informative) Rationale		70
Annex B (informative) Consumer information sheet for playground surfacing materials		74
Annex C (informative) Safety labelling guidelines for certain types of activity toys		75
Bibliography		77