

DIN EN ISO 23659:2023-03 (E)

Sports and recreational facilities - Trampoline parks - Safety requirements (ISO 23659:2022)

Contents	Page
European foreword.....	4
Foreword.....	5
Introduction.....	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions.....	8
4 Requirements of construction.....	14
4.1 General.....	14
4.2 Usage and maintenance manual.....	15
4.3 Trampoline and bouncing facilities.....	16
4.4 Park trampolines.....	16
4.4.1 Heights.....	16
4.4.2 Framework construction.....	18
4.4.3 Trampoline beds.....	19
4.4.4 Framework padding.....	19
4.4.5 Layout.....	19
4.4.6 Trip hazards.....	20
4.5 Performance trampolines and wall trampolines.....	20
4.5.1 General.....	20
4.5.2 Heights.....	20
4.5.3 Padding.....	22
4.5.4 Walk-the-wall.....	22
4.6 Dismount devices.....	22
4.6.1 General.....	22
4.6.2 Dismount device foam pit.....	25
4.6.3 Resi-pit.....	27
4.6.4 Dismount device air bag.....	27
4.6.5 Dimensions for dismount devices.....	30
4.6.6 Dismount devices for jump platforms.....	31
4.7 Sports equipment used in combination with trampolines.....	31
4.7.1 General.....	31
4.7.2 Basketball.....	31
4.8 Miscellaneous paddings.....	32
4.9 Containment system.....	32
4.9.1 General.....	32
4.9.2 Safety requirements.....	33
4.10 Protection against entrapment.....	33
4.10.1 General.....	33
4.10.2 Netting.....	33
4.10.3 Entrapment.....	33
4.11 Capacity.....	33
4.11.1 General.....	33
4.11.2 Capacity of park area.....	33
4.11.3 Capacity of novel activity areas.....	34
4.12 Lighting.....	35

4.13	Bungee	35
4.13.1	Bungee longe.....	35
4.13.2	Bungee trampoline.....	35
5	Requirements of operation.....	36
5.1	Risk management.....	36
5.2	Health and safety policy.....	38
5.3	Standard operating procedures and policies (SOP).....	38
5.4	Trampoline park design and layout.....	39
5.5	Features, activities and sessions on offer, and permitted actions	39
5.6	Users, spectators, staff and external personnel	39
5.6.1	General	39
5.6.2	Users.....	40
5.6.3	Spectators.....	40
5.6.4	External personnel.....	40
5.7	Staff information and training.....	40
5.8	Activity management.....	41
5.9	Safety information	42
5.9.1	General.....	42
5.9.2	Safety briefing.....	43
5.9.3	Safety signage.....	43
5.10	Cleanliness and hygiene	44
5.11	Inspection and replacement parts.....	44
5.11.1	General.....	44
5.11.2	Inspection, testing and repairs	44
5.11.3	Maintenance and modification.....	47
5.12	First aid provision	47
5.13	Emergency action plan.....	48
5.14	Emergency evacuation	48
5.15	Documentation control.....	49
5.16	Documentation of accidents and incidents	49
5.17	Injury statistics.....	50
5.18	Insurance.....	50
6	Test methods.....	50
6.1	General.....	50
6.2	Testing of strength and elastic properties of the trampoline.....	50
6.2.1	Principle.....	50
6.2.2	Apparatus.....	50
6.2.3	Procedure.....	50
6.2.4	Expression of result.....	50
6.3	Padding.....	51
6.4	Bungee.....	51
6.5	Entrapment.....	51
	Annex A (informative) Risk assessment.....	52
	Annex B (informative) Example format of a design risk assessment.....	54
	Annex C (informative) Environmental aspects.....	55
	Annex D (normative) Test method for determining the performance of impact attenuation surfacing used within a trampoline park.....	57
	Annex E (normative) Classification of park and performance trampolines.....	68
	Bibliography.....	72