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Australian STANDARD®

STANDARDS Australia

# Trampoline park facilities

## Part 1: General safety requirements and test methods



# AS 5159.1:2026

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Australasian Injury Prevention Network
Australian Amusement Leisure & Recreation Association
Australian Industry Group
Australian Institute of Health & Safety
Australian Trampoline Parks Association
Christian Venues Association
Consumers' Federation of Australia
Engineers Australia
Kidsafe Australia
SafeWork SA
Victorian Injury Surveillance Unit
Victorian WorkCover Authority (WorkSafe Victoria)

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# Trampoline park facilities

## Part 1: General safety requirements and test methods

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# How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's Standardisation Guide 006 for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

**Requirements**

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

**Recommendations, permissions and possibilities**

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

(a) "should" means that something is recommended.

(b) "may" means that something is permitted.

(c) "can" means that something is possible.

**Structure of Standards**

A Standard always has the following parts:

(i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.

(ii) The Scope states what the Standard is about, what it covers and what it does not cover.

(iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.

(iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

(1) A normative appendix sets additional requirements that need to be conformed to.

(2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.

(3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

# Preface

This Standard was prepared by Standards Australia Committee SF-051, Trampoline Park Facilities, to supersede AS 5159.1:2018.

The objective of this document is to provide designers, manufacturers/suppliers, proprietors and operating personnel with requirements and guidance specific to the design, operation and maintenance of trampoline park facilities. This document provides minimum safety thresholds to reduce the likelihood of spinal and other traumatic injuries.

The major changes in this edition are as follows:

(a) The addition of the following new content:

  (i) Clauses on personnel, benefit-risk assessment and strobe and special event lighting in Section 2.

  (ii) Process for post-incident inspection after incidents or near-miss events.

  (iii) Specification of information to be included in test reports (Clause D.5).

(b) Terms and definitions have been updated as follows:

  (i) Examples of redundant systems have been added to the definition of base bag.

  (ii) Definitions have been provided for the terms benefit-risk assessment, bungee trampoline and near miss.

  (iii) Boilerplate definitions for may, shall and should have been added.

  (iv) Terms that were not used within the document have been deleted.

(c) Where used in this document, the term “padding” has been updated to “impact-attenuating system”.

(d) Removal of the appendix about test methods for bed foams.

(e) The appendix on benefit-risk assessment for design has been updated as follows:

  (i) Information on flying foxes and challenge courses have been removed.

  (ii) Risk assessment techniques formerly discussed in the appendix about logbooks and operations and maintenance manuals have been moved to this appendix.

(f) A Bibliography listing references that have been used informatively has been added at the end of the document.

This Standard is Part 1 in a series of standards on trampoline park and related activities. Part 2 provides requirements and guidance specific to the design, operation and maintenance of trampoline park facility dismount pits.

Ninja courses are increasingly being installed within trampoline park facilities. The Committee intends to draft a Standard on the specific technical requirements for ninja courses. Until a Standard is published for these specific requirements, the general technical requirements contained in Parts 1 and 2 of this Standard can be used when designing, operating and maintaining ninja courses.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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# Introduction

A trampoline park is a venue with multiple trampolines and/or trampoline courts used separately or in conjunction with other apparatus or features such as climbing walls or climbing blocks. A trampoline park is used for sport, recreation and exercise by children, adolescents and adults.

Trampoline park facilities are designed, built and operated in a range of different configurations. Park trampolines are not generally raised off the ground but built into a frame, meaning that it is not possible to "fall off" the trampoline.

This document addresses the physical structure and the management of the trampoline component of the trampoline parks, including associated equipment such as impact areas and bouncing space. This document does not address other equipment that may be present in the park, such as climbing walls.

A study published in the Australian and New Zealand Journal of Public Health of paediatric injury data collected over a 6-month period in 2014/15 analysed the presentation of 40 patients (under the age of 17) to the Sydney Children's Hospital who had sustained injuries as a result of activities at a trampoline park. The study states that the rise in popularity of trampoline parks has seen a corresponding rise in the number of injuries. While most of the injuries presented were minor, they range in severity, with over 12 % requiring operative intervention.

The study found the majority of patients presented with a soft tissue injury or sprain (55 %) or fractured bone(s) (37.5 %). The lower extremities were the most frequent site of injury (67.5 %), followed by the upper extremities (15 %).

This document addresses the physical structure and the management of the trampoline component of the trampoline parks, including associated equipment such as impact areas and bouncing space, but does not address other equipment that may be present in the park, such as climbing walls.

Conformance to this document alone will not prevent injuries. Like other physical activities, trampoline use involves the risk of injury, particularly if the equipment is used improperly.

Refer to workplace health and safety legislation for further requirements.

This document aims to minimize known hazards that can be present in trampoline park facilities. This document also addresses possible benefits from their use.

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# Australian Standard®

# Trampoline park facilities

## Part 1: General safety requirements and test methods

## Section 1 Scope and general

### 1.1 Scope

This document specifies the general requirements for the design, operation, maintenance and inspection of trampoline park facilities (TPFs).

This document applies to indoor, outdoor and mobile trampoline park facilities and related equipment associated with a trampoline park facility.

This document includes supervision levels, staff and patron training, competencies, information, maintenance and testing of trampoline park facilities and associated equipment. This document does not include trampoline park facility dismount pits.

NOTE 1 For trampoline park facility dismount pits, refer to AS 5159.2.

This document does not apply to domestic trampolines, bungee trampolines, gymnastic trampolines, trampolines intended for use on water, and inflatable trampolines and/or devices.

NOTE 2 Refer to AS 2316.1.1 for safety requirement for auto-belay devices used within trampoline part facilities.

### 1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1319, *Safely signs for the occupational environment*

AS 1657, *Fixed platforms, walkways, stairways and ladders — Design, construction and installation*

AS 2321, *Short-link chain for lifting purposes*

AS 2741, *Shackles*

AS 3569, *Steel wire ropes—Product specification*

AS 3745, *Planning for emergencies in facilities*

AS 4100, *Steel structures*

AS 4989, *Trampolines for domestic use—Safety aspects*

AS/NZS 1170, *Structural design actions (all parts)*

AS/NZS 1554, *Structural steel welding (all parts)*

AS/NZS 1891, *Personal equipment for work at height (all parts)*

AS/NZS 8124.1, *Safety of toys, Part 1: Safety aspects related to mechanical and physical properties (ISO 8124.1:2014, MOD)*

AS/NZS 8124.3, *Safety of toys, Part 3: Migration of certain elements*

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