AS 5159.2:2026

Australian STANDARD®

STANDARDS Australia

Trampoline park facilities

Part 2: Dismount pits



AS 5159.2:2026

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Australian Industry Group
Australian Institute of Health & Safety
Australian Trampoline Parks Association
Christian Venues Association
Consumers' Federation of Australia
Engineers Australia
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SafeWork SA
Victorian Injury Surveillance Unit
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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.

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 facility dismount pits. This document provides minimum safety thresholds to reduce the likelihood of spinal and other traumatic injuries.

This document is Part 2 in a series of Standards on trampoline parks and related activities. It has been developed to be used together with AS 5159.1, *Trampoline park facilities, Part 1: General safety requirements and test methods*.

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 facility is a venue with multiple trampolines or trampoline courts used separately or in conjunction with dismount pit and other related elements. A trampoline park facility 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. This document addresses dismount pits.

A trampoline dismount pit is a device (foam pit or airbag) comprising an impact-attenuating system designed to provide a safe landing from height from a trampoline.

This document provides requirements for the design, operation, maintenance and inspection of trampoline park facility dismount pits.

Conformance to this document alone will not prevent injuries. Like other physical activities, trampoline use includes the risk of injury, particularly if the dismount pit is not adequately maintained, equipment is used improperly, or patrons have not received adequate instruction.

There is a risk of patrons performing risky dismount manoeuvres. Proactive supervision of patrons using dismount pits aims to provide a protection layer to eliminate or reduce risks of injury.

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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Trampoline park facilities

Part 2: Dismount pits

Section 1 Scope and general

1.1 Scope

This document specifies the requirements for the design, operation, maintenance and inspection of trampoline park facility dismount pits.

This document is applicable to indoor, outdoor and mobile trampoline park facility dismount pits.

This document is not applicable to resi-pits, domestic trampolines, bungee trampolines, gymnastic trampolines, trampolines intended for use on water, and inflatable trampolines and/or devices.

NOTE Resi-pits are an attenuation system that is used for landing rather than dismounting.

This document is intended to be used in conjunction with AS 5159.1, which provides general requirements and recommendations on matters common to trampoline park facilities. Specific requirements in this document take precedence over corresponding requirements in AS 5159.1.

While this document has been developed for dismount pits in trampoline park facilities, the principles contained within this part (AS 5159.2) can be used as a guide to dismount pit design in the absence of another Standard.

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 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 4100, *Steel structures*

AS 5159.1, *Trampoline park facilities — Part 1: General safety requirements and test methods*

AS/NZS 1554 (series), *Structural steel welding*

AS/NZS 3000, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*

AS/NZS 8124.3, *Safety of toys — Part 3: Migration of certain elements (ISO 8124-3:2010, MOD)*

AS ISO 4980, *Benefit-risk assessment for sports and recreational facilities, activities and equipment*

1.3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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