

AS 2316.2.1:2025



# Artificial climbing structures and challenge courses

**Part 2.1: Flying foxes and challenge ropes courses — Construction and safety requirements**



## AS 2316.2.1:2025

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- Anglican Youth and Education Diocese of Sydney
- Australian Amusement Association
- Australian Amusement Leisure & Recreation Association
- Australian Camps Association
- Australian Industry Group
- Boulder Gyms Australia
- Christian Venues Association
- Department of Defence (Australian Government)
- Engineers Australia
- Indoor Climbing Industry Australia
- NSW Office of Sport
- Outdoor Council of Australia
- SafeWork NSW Agency
- Scouts Australia
- Sport Climbing Australia
- Sport and Recreation Victoria
- Victorian WorkCover Authority (WorkSafe Victoria)

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Australian Standard<sup>®</sup>

# **Artificial climbing structures and challenge courses**

**Part 2.1: Flying foxes and challenge ropes  
courses — Construction and safety  
requirements**

Originated as AS 2316.2.1:2016.  
Second edition 2025.

## Preface

This Standard was prepared by the Australian members of the joint Standards Australia/Standards New Zealand Committee SF-047, Artificial Climbing Structures, to supersede AS 2316.2.1:2016.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to provide regulators, designers, and manufacturers with clear requirements for the design, construction, and inspection of flying foxes and challenge courses. It aims to promote consistency in design principles across all jurisdictions in Australia.

AS 2316.2.2 covers the operation requirements of flying foxes and challenge courses.

The major changes to this edition are as follows:

- (a) The introduction of universal design principles.
- (b) The incorporation of the benefit-risk principle outlined in AS ISO 4980.
- (c) Extensive prescriptive guidance on the construction and safety requirements for flying foxes and challenge courses.
- (d) Environmental and climate factors, specifically earthquake and wind.

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**

This document was developed through the combined experience of the Committee and the organizations it represents, along with contributions from individuals and organizations with expert knowledge in those areas covered by this document.

Activities such as flying foxes and challenge courses actively engage participants while maintaining an acceptable level of residual risk. These experiences foster personal growth, teamwork, and problem-solving skills.

Designers aim to create inclusive environments that accommodate for the ages and abilities of intended participants. While it is not possible to eliminate all risk from adventure-based activities, well-considered safety measures significantly reduce the likelihood and severity of incidents.