



Standard Practice for Aerial Adventure Courses¹

This standard is issued under the fixed designation F2959; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice establishes criteria for the Design, Manufacture, Installation, Operation, Maintenance, Auditing and Major Modification of Aerial Adventure Courses which occur(s) after the effective date of publication of this document except as noted in **1.3**.

1.2 This practice applies to the following devices when operated for concession or commercial recreation:

- 1.2.1 Zip Lines.
- 1.2.2 Ropes Courses.
- 1.2.3 Challenge Courses.
- 1.2.4 Aerial Trekking Courses.
- 1.2.5 Canopy Tours.
- 1.2.6 Manufactured Climbing Walls.

1.3 This practice shall not apply to the following:

1.3.1 Aerial Adventure Courses when operated exclusively under the following applications:

- 1.3.1.1 Educational curriculum.
- 1.3.1.2 Physical fitness purposes.
- 1.3.1.3 Organized competitive events.
- 1.3.1.4 Therapeutic programs.
- 1.3.1.5 Training purposes.
- 1.3.1.6 Team and confidence building.
- 1.3.1.7 Playground equipment covered by Consumer Safety

Performance Specification **F1487**.

1.3.2 Amusement rides and devices whose design criteria are specifically addressed in another ASTM standard.

1.3.3 Portions of an Aerial Adventure Course unaffected by a major modification.

1.3.4 Upgrades to electrical wiring, electrical motors and electrical components of Aerial Adventure Courses provided the original design and safety criteria are maintained or enhanced.

1.3.5 Pre-existing designs for Aerial Adventure Courses that are installed after the publication date of this practice if the design is service proven or previously compliant as specified by **1.3.5.1**.

1.3.5.1 Aerial Adventure Course designs may qualify as “previously compliant” for five years following the date of publication of this practice. Thereafter, an Aerial Adventure Course design must qualify as “service proven” as defined in Practice **F2291** or meet the requirements of this practice.

1.4 This practice includes an annex (mandatory), which provides additional information (for example, rationale, background, interpretations, drawings, commentary, and so forth) to improve the user’s understanding and application of the criteria presented in this practice. The annex information shall be interpreted as mandatory design criteria.

1.5 This practice includes an appendix (non-mandatory), which provides additional information (for example, rationale, background, interpretations, drawings, commentary, and so forth.) to improve the user’s understanding and application of the criteria presented in this practice. The appendix information shall not be interpreted as mandatory design criteria.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. Some specific hazards statements are given in Section 7 on Hazards.*

2. Referenced Documents

2.1 *ASTM Standards:*²

F747 Terminology Relating to Amusement Rides and Devices

F770 Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices

F846 Guide for Testing Performance of Amusement Rides and Devices (Withdrawn 2013)³

F1193 Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices

F1487 Consumer Safety Performance Specification for Playground Equipment for Public Use

¹ This practice is under the jurisdiction of ASTM Committee **F24** on Amusement Rides and Devices and is the direct responsibility of Subcommittee **F24.61** on Adventure Attractions.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.