



Designation: F3054 – 23

Standard Practice for Operations of Amusement Railway Rides, Devices, and Facilities¹

This standard is issued under the fixed designation F3054; 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 applies to operations of amusement railway ride(s) that have a track gauge greater than or equal to 12 in. (305 mm) measured between the heads of the rails. This excludes patron powered ride vehicles specifically designed for children.

1.2 This standard does not apply to the operation of rides, such as roller coasters, that resemble railways, but fall within the scope of Practice **F2291**-22a or Practice **F1159**-16 ^{ϵ 1}. This standard also does not apply to funiculars as defined in ANSI B77.2-20 or BS EN 1907-17.

1.3 This standard does not apply to amusement railway rides operation that are intended for use as a portable amusement ride or attraction.

1.4 This standard does not apply to permanently installed amusement railway rides and tourist railways, and their associated track, devices and facilities that are under the jurisdiction of the Federal Railroad Administration (FRA) in whole or part or national equivalent.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This practice is under the jurisdiction of ASTM Committee **F24** on Amusement Rides and Devices and is the direct responsibility of Subcommittee **F24.60** on Special Rides/Attractions.

Current edition approved June 1, 2023. Published July 2023. Originally approved in 2015. Last previous edition approved in 2018 as F3054 – 18. DOI: 10.1520/F3054-23.

2. Referenced Documents

2.1 ASTM Standards:²

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

F1159 Practice for Design of Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards

F2291 Practice for Design of Amusement Rides and Devices

2.2 Other Standards:

ANSI B77.2-20 Funiculars - Safety Requirements³

BS EN 1907-17 Safety requirements for cableway installations designed to carry persons. Terminology⁴

3. Terminology

3.1 *amusement railway ride, n*—an amusement ride that may have multiple vehicles (for example, locomotive(s), coach(es), etc.) linked together, at least one of which has on board mechanical propulsion that has an on board operator(s), utilizing flanged wheels on railroad type rails with a gauge of 12 in. or greater, that is insular to national regulations, which is designated by the Designer/Engineer as an amusement railway ride.

4. Significance and Use

4.1 The purpose of this practice is to delineate information and to establish procedures for the operation of an amusement railway ride.

4.2 The user of this standard shall be required to review and comply with the referenced “core” ASTM Committee F24 standards in Subsection 2.1 of this standard. Modified or alternate requirements to those standards may be required in this standard.

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 Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁴ Available from British Standards Institution (BSI), 389 Chiswick High Rd., London W4 4AL, U.K., <http://www.bsigroup.com>.