



Standard Practice for Permanent Amusement Railway Ride Tracks and Related Devices¹

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1. Scope

1.1 This standard applies to design, manufacture, installation, operation, maintenance, and inspection of permanent 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 and their related devices and facilities, for example, bridges, tunnels, and signal support structures, excluding rolling stock. This “track” specific standard provides requirements which are not covered in the “core” or “supporting” standards of the ASTM F24 committee.

1.2 This standard does not apply to track of rides, such as roller coasters, that may resemble railways, but may fall within the scope of Practice F2291-11 or Practice F1159-02 and does not apply to funiculars as defined in ANSI B77.2 or BS EN 1907.

1.3 This standard does not apply to Amusement Railway Rides and their associated track, devices and facilities that are manufactured and 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 United States Federal Railroad Administration (FRA) in whole or part, or national equivalent.

1.5 *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.*

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.

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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

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

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

F2137 Practice for Measuring the Dynamic Characteristics of Amusement Rides and Devices

F2291 Practice for Design of Amusement Rides and Devices

2.2 Industry Standards:

AREMA Manual for Railway Engineering (2013)

AWPA U1 (American Wood Preserver's Association Standard) The Use Category System (2013)

BS EN 1907 Safety Requirements for Cableway Installations Designed to Carry Persons—Terminology (Funiculars) (2005)

Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) (2009)

3. Terminology

3.1 Definitions:

3.1.1 *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.

3.1.2 *Type AP-A track, n*—active main lines; any track where the operating speed exceeds walking speed.

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.