



# Standard Specification for Physical Information to be Provided for Amusement Rides and Devices<sup>1</sup>

This standard is issued under the fixed designation F 698; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers the minimum requirements for information that shall be provided by the manufacturer or seller of new amusement rides or devices as a part of the initial sale or transfer to the first end user.

1.2 This specification does not apply to the sale or transfer of used amusement rides and devices.

## 2. Information Requirements

2.1 The information given in 2.2 and 2.3-2.15.3 shall be included where applicable on the information plate as specified in 2.2 and in the documented operating and maintenance instructions to be furnished by the manufacturer or seller, at the time of sale of each amusement ride or device.

2.2 *Information Plate*—A manufacturer-issued information plate, printed in English, shall be permanently affixed to the ride or device in a visible location and shall be designed to remain legible for the expected life of the ride or device. The plate shall include, but not be restricted to, all applicable items listed in 2.2-2.2.8.

2.2.1 *Ride Serial Number*—A manufacturer-issued unique identifying number or code affixed to the ride in a permanent fashion.

2.2.2 *Ride Name and Manufacturer*—A manufacturer-issued unique identifying ride name including the name of the manufacturer by city, state, and country.

2.2.3 *Ride Model Number*—A manufacturer-issued unique identifying number or code assigned to each manufactured type of ride having the same structural design or components.

2.2.4 *Date of Manufacture*—The date (month and year) determined by the manufacturer that the given ride or device met his required construction specifications.

2.2.5 *Ride Speed*—Maximum and minimum revolutions per minute, feet per second, or miles per hour, as applicable.

2.2.6 *Direction of Travel*—When the proper direction of travel is essential to the design operation of the ride, the manufacturer shall designate the direction of travel, including reference point for this designation.

2.2.7 *Passenger Capacity by Weight*—Maximum total pas-

senger weight per passenger position and per ride.

2.2.8 *Passenger Capacity by Number*—Maximum total number of adult or child passengers per passenger position and per ride.

2.3 *Ride Duration*—The actual time the ride is in operation or a passenger is exposed to the elements of the ride functions including passenger restrictions to maximum exposure time shall be included.

2.4 *Recommended Balance of Passenger Loading or Unloading*—When passenger distribution is essential to the proper operation of the ride or device, the appropriate loading and unloading procedure, with respect to weight distribution shall be provided.

2.5 *Environmental Restrictions*—Recommendations for operational restrictions relating to environmental conditions such as, but not limited to, wind, rain, salt corrosion, and extreme heat or cold.

2.6 *Recommended Passenger Restrictions*—Where applicable, any recommended passenger limitations such as, but not limited to height, passenger placement, or any other appropriate restrictions.

2.7 *Electrical Power Requirements*—Total electrical power required to properly operate the ride or device designated in watts and volts, including minimum and maximum voltage limits.

2.8 *Mechanical Power Requirements*—Minimum horsepower necessary to operate ride properly.

2.9 *Water Flow*—Minimum/maximum water flow rates.

2.10 *Static Information*—The following information shall be provided for the amusement ride or device when it is in a nonoperational state with no passengers: height, width, diameter, and weight.

2.11 *Dynamic Information*—The following information shall be provided for the amusement ride or device when it is in an operational state: height, width, diameter, and weight.

2.12 *Trailer Information*—Each trailer necessary for the transport of a portable amusement ride or device shall be provided with the following information: height, width, length, and weight.

2.13 *Fastener Schedule*—A manufacturer issued schedule for the correct grade, torque, and placement of all fasteners used in the assembly, or erection, or both, of the ride or device.

2.14 *Load Distribution per Footing*—Maximum static loading and maximum dynamic loading of each footing of an

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee F24 on Amusement Rides and Devices and is the direct responsibility of Subcommittee F24.20 on Specifications.

Current edition approved July 15, 1994. Published September 1994. Originally published as F 698 – 83. Last previous edition F 698 – 88 (1993).

amusement ride or device.

2.15 *Elements and Structures*—Provided the proposed owner/operator furnishes the manufacturer with necessary data concerning proposed installation and usage of the ride or device, the manufacturer shall provide to the proposed owner/operator a description of all structural interface between the ride or device and the owner/operator supports. This structural requirement definition shall include the following:

2.15.1 Maximum static design loads of each footing or equivalent structural connection,

2.15.2 Maximum dynamic design loads of each footing or equivalent structural connection, and

2.15.3 Any other structural interface design specification.

### 3. Significance and Use

3.1 The purpose of this specification is to provide the minimum information necessary for the proper identification, placement, erection, and operation of each amusement ride or device.

*The American Society for Testing and Materials takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.*

*This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.*

*This standard is copyrighted by ASTM, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or [service@astm.org](mailto:service@astm.org) (e-mail); or through the ASTM website ([www.astm.org](http://www.astm.org)).*