



Standard Specification for Paintball Marker Barrel Blocking Devices¹

This standard is issued under the fixed designation F2271; 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.

INTRODUCTION

This standard is intended to outline basic performance requirements for barrel blocking devices. A barrel blocking device is a critical piece of safety equipment used in the sport of paintball.

Paintball is a sport that, like all sports, has intrinsic hazards. These hazards include being hit by paintballs. Protective equipment cannot eliminate all injuries but will substantially reduce their severity and frequency. A barrel blocking device is an additional safety device that, when meeting this standard and properly used, can substantially reduce the severity and frequency of injuries. Paintball marker barrels are not all the same inside diameter, thus necessitating performance specifications for barrel blocking devices that match the barrel blocking device to a barrel diameter. This specification is written within the current state-of-the-art of paintball marker barrel and paintball barrel blocking device technology. The intent is to revise this specification whenever substantive information becomes available which justifies revising existing requirements or adding new requirements.

1. Scope

1.1 This specification covers paintball barrel blocking devices that may be inserted or otherwise function to prevent a paintball from leaving the muzzle or the confines of the barrel blocking device intact.

1.2 The values stated in SI units are to be regarded as the standard. The inch-pound units given in parentheses are provided for information only.

1.3 *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 requirements prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

F1979 Specification for Paintballs Used in the Sport of Paintball

F2272 Specification for Paintball Markers

¹ This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.24 on Paintball and Equipment.

Current edition approved April 1, 2015. Published August 2015. Originally approved in 2003. Last previous edition approved in 2011 as F2271 – 11. DOI: 10.1520/F2271-11R15.

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. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *Paintball Marker Terms:*—

3.1.1.1 *auto-trigger*—a trigger which, when held in the discharge position, will automatically cause the paintball marker to discharge when the pump or bolt action is manipulated.

3.1.1.2 *barrel*—that portion of a paintball marker through which the paintball is discharged.

3.1.1.3 *barrel blocking device*—a safety device that prevents an intact paintball from being accidentally discharged from the muzzle of the paintball marker or leaving the confines of the barrel blocking device.

3.1.1.4 *burst mode marker*—a burst mode marker may discharge two or more times per trigger cycle or may discharge two or more times with the pull and release of the trigger.

3.1.1.5 *discharge mode*—a mode that controls the number of paintballs discharged per trigger cycle.

3.1.1.6 *enhanced trigger mode marker*—a paintball marker that at some point discharges more than one paintball per trigger cycle. This includes markers that “store” the number of trigger.

3.1.1.7 *fully-automatic mode marker*—a marker that discharges when the triggering device is actuated and continues to discharge until the trigger returns to its reset or recycle position.

3.1.1.8 *modified fully automatic mode 1 marker*—a semiautomatic mode marker which, after the trigger is pulled at least