



Standard Specification for Face Guards for Youth Baseball¹

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INTRODUCTION

In baseball, or similar sports, where the force of a pitched, hit, or deflected ball can cause facial injury, there is a need for head, facial, eye, and teeth protection. After careful consideration of the mechanisms and forces involved in this context, this specification for eye and facial protective equipment has been prepared.

The impact test is designed to approximate the impact of a direct perpendicular blow from a baseball traveling at 30 m/s (67.1 mph). These speeds have been confirmed by actual measurements on baseballs thrown by youth league pitchers. Performance and design requirements developed on this basis are intended to minimize injury and to prolong the useful life of the equipment. However, because of complex interactions of variables such as ball speed, direction and point of impact, and particularly, individual differences in reaction to impact forces, it must be kept in mind that some injuries, even some serious injuries, are still possible.

1. Scope

1.1 This specification covers protective face guards for sports such as youth baseball (batters and baserunners).

1.2 This type of face guard is designed to be attached to a pre-existing helmet.

1.3 The equipment covered by this specification is intended to reduce hazards of injury to the face, including eyes and mouth, due to impacts from baseballs or softballs.

1.4 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 The following precautionary caveat pertains only to the test method portion, Section 5, of this specification: *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.*

2. General Requirements

2.1 Materials:

2.1.1 The design of the face guards and the choice of materials shall be such as to combine mechanical strength and durability consistent with the intended use of the equipment.

2.1.2 Materials coming into contact with the wearer's face shall not be a type known to cause skin irritation or disease, and shall not undergo significant loss of strength, flexibility, or other physical change as a result of contact with perspiration, oil, or grease from the wearer's head or skin.

2.2 *Finishes*—All points shall be well finished, and free of sharp edges or other irregularities that would present potential hazards of scratching and cutting the user or an opposing player.

2.3 *Padding*—Where padded chin straps are used, the padding material shall be attached to the device in such a way as to cover all the hard surfaces that come into contact with the chin. The method of securing padding shall maintain the padding material in position under normal conditions of heat, cold, moisture, or force distortion by the wearer. Any adhesive used to attach the padding to the face guard shall be of such a type as to cause no deterioration or stress of the face guard material.

2.4 *Attachment System*—Face guards shall be attached to the helmet in such a way as to avoid reduction of the degree of protection offered by the helmet or the combination of helmet and guard. The protection offered by the helmet or guard shall be considered impaired if there is visual evidence of stress to the helmet or guard or any disengagement of the guard following the tests as set forth in 5.3 or while in use.

3. Performance Requirements

3.1 All testing shall be done with the face guard mounted on a helmet of a make or model specified by the face guard manufacturer and placed on a headform as specified in 5.1.1.

¹ This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.53 on Headgear and Helmets.

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