



Standard Specification for Head and Face Protective Equipment for Ice Hockey Goaltenders¹

This standard is issued under the fixed designation F1587; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

INTRODUCTION

Ice hockey is a contact sport with intrinsic hazards. The use of protective equipment will not eliminate all injuries but should substantially reduce the severity and frequency of many injuries. Participation in the sport of ice hockey by a player implies acceptance of some risk of injury. The goal is to reduce the risk.

This performance specification for ice hockey goaltender head and face protective equipment has been prepared after consideration of head and face protection relative to the following principle risks: high-mass/low-velocity impact with respect to head protection, low-mass/high-velocity with respect to face protection (various playing situations), and fit. This performance specification may be modified as other risks are identified.

Performance requirements were determined after consideration of the state of the art of head and face protective design and manufacture. This specification was developed to address the unique demands and hazards associated with the position of ice hockey goaltender.

Two types of protectors are designated. Both types are subject to impact resistance and shock attenuation requirements. Type I protectors are subject to hockey stick blade penetration resistance requirements over their entire area of coverage. Type II protectors are subject to hockey puck penetration resistance requirements within the area of the field of vision and hockey stick blade penetration resistance requirements over the remainder of the area of coverage. It is recommended that Type II protectors be used only by players 18 years of age and older.

1. Scope

1.1 This performance specification² covers performance requirements for ice hockey goaltender head and face protectors.

1.2 The intent of this performance specification is to reduce the risk of injury to the head and face of ice hockey goaltenders without compromising the form and appeal of the game.

1.3 This specification has requirements for: (1) materials, assembly, and design; (2) protected areas (coverage) and penetration resistance; (3) shock absorption; (4) puck impact

resistance; (5) extensibility and strength of the chin strap and its attachment; and (6) optical quality.

1.4 *Units*—The values stated in SI units are to be regarded as the standard. No other units of measurement are included in this standard.

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.*

2. Referenced Documents

2.1 ASTM Standards:³

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 F08.15 on Ice Hockey.

Current edition approved Dec. 1, 2012. Published January 2013. Originally approved in 1995. Last previous edition approved in 2012 as F1587 – 12. DOI: 10.1520/F1587-12A.

² This performance specification is subject to revision as indicated by subsequent injury statistics and subject to review at least every five years.

³ 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.