

BS 7928-2:2009



BSI Standards Publication

Head and face protection for cricketers –

Part 2: Face protectors for cricket
wicket-keepers

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Summary of pages

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Foreword

Publishing information

This part of BS 7928 is published by BSI and came into effect on 31 December 2009. It was prepared by Subcommittee PH/6/6, *Protective helmets for sport and leisure activities*, under the authority of Technical Committee PH/6, *Head protection*. A list of organizations represented on this committee can be obtained on request to its secretary.

Relationship with other publications

This publication is related to BS 7928, *Specification for head protectors for cricketers*, which will become BS 7928-1 in due course.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

0 Introduction

It is important to note that the protection given by a face protector depends on the circumstances of the accident and wearing a face protector cannot always prevent death or long-term disability.

A proportion of the energy of an impact is absorbed by the face protector, thereby reducing the force of the blow sustained by the face/head. The structure of the face protector might be damaged in absorbing this energy and any face protector that sustains a severe blow needs to be replaced even if damage is not apparent.

In preparing this standard the committee has been aware that no test exists for measurement of impact attenuation that simulates the impact of a moving cricket ball on a comparatively static player wearing a face protector. The test method specified records the impact of a moving headform fitted with a face protector on a hemispherical (simulated cricket ball shape) anvil, which is the nearest approximation to use among existing test methods.

A 15 J impact was chosen for the impact attenuation test because:

- a) it is theoretically equivalent to a cricket ball speed of 25 m/s to 30 m/s;
- b) this impact enabled a distinction to be made between the protection levels offered by cricket helmets currently manufactured to BS 7928.

NOTE It is anticipated that the 15 J impact will be amended in future revisions of this standard as the technology for measuring cricket ball speeds improves, enabling more detailed data to be collected.

1 Scope

This part of BS 7928 specifies requirements for face protectors to be worn by cricket wicket-keepers.

It includes requirements relating to:

- a) materials and construction;
- b) impact attenuation properties;
- c) marking; and
- d) information to be supplied with the face protector.

NOTE For requirements relating to helmets and faceguards, i.e. head protectors, see BS 7928.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS EN 960:2006, *Specification for headforms for use in the testing of protective helmets*

BS ISO 6487:2002+A1:2008, *Road vehicles – Measurement techniques in impact tests – Instrumentation*

3 Terms and definitions

For the purposes of this part of BS 7928, the terms and definitions given in BS EN 960 and the following apply.

- 3.1 head protector**
complete assembly of helmet and faceguard
- 3.2 helmet**
headgear made of shock-resistant material intended to protect parts of the wearer's head against a specified hazard (cricket ball)
[BS ISO 4007 (modified)]
- 3.3 faceguard**
extension of, or an attachment to, the helmet covering the face and ears, to give protection against impacts
- 3.4 face protector**
headgear primarily intended to protect parts of the wearer's face, including chin, lower jaw, forehead and temples, against a specified hazard (cricket ball)
- 3.5 protective padding**
material used to absorb impact energy
- 3.6 retention system**
complete assembly that prevents inadvertent loss of the face protector
NOTE The retention system might comprise, for example, a chin strap and head strap(s)/band(s).
- 3.7 chin strap**
strap that passes under the wearer's chin or lower jaw and intended to prevent inadvertent loss of the face protector
- 3.8 head strap/band**
strap/band that passes around the rear part of the wearer's head intended to prevent inadvertent loss of the face protector
- 3.9 basic plane**
<of a human head> plane at the level of the external auditory meatus (external ear opening) and the inferior margin of the orbit (lower edge of the eye socket)
- 3.10 basic plane**
<of a headform> plane relative to the headform that corresponds to the basic plane of the head that the headform simulates
NOTE A precise position for the basic plane of a headform conforming to BS EN 960 is given in that standard.
- 3.11 central vertical axis**
line relative to a headform conforming to BS EN 960 that lies in the plane of symmetry and normal to the reference plane at a point equidistant from the front and back of the headform in the reference plane
- 3.12 central longitudinal vertical plane**
vertical plane of the symmetry of a human head or headform or of a face protector as it is intended to be worn on the head
- 3.13 size (of a face protector)**
size of the head which the inner parts and retention system of the face protector are designed to fit