

BS EN 812:2012



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Industrial bump caps

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National foreword

This British Standard is the UK implementation of EN 812:2012. It supersedes BS EN 812:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PH/6/1, Industrial safety helmets.

A list of organizations represented on this committee can be obtained on request to its secretary.

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

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Industrial bump caps

Casquettes anti-heurt pour l'industrie

Industrie-Anstoßkappen

This European Standard was approved by CEN on 17 December 2011.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 812:2012) has been prepared by Technical Committee CEN/TC “Head protection”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2012, and conflicting national standards shall be withdrawn at the latest by August 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 812:1997.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

Annex C provides details of significant technical changes between this European Standard and the previous edition.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies physical and performance requirements, methods of test and marking requirements for industrial bump caps.

Industrial bump caps are intended to provide protection to the wearer against the effects of striking his head against hard, stationary objects with sufficient severity to cause laceration or other superficial injuries. They are not intended to provide protection against the effects of falling or thrown objects, or moving or suspended loads.

NOTE An industrial bump cap should not be confused with an industrial safety helmet, as specified in EN 397.

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.

EN 960:2006, *Headforms for use in the testing of protective helmets*

ISO 6487:2002, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

industrial bump cap

headgear, hereinafter referred to as a “bump cap”, intended to protect the wearer’s head against injury caused by striking the head against hard, stationary objects

NOTE It may consist of the items defined in 3.2, 3.3, 3.4, 3.5 and 3.6.

3.2

shell

hard, smoothly finished material that may provide the general outer form of the bump cap

NOTE It may be fitted with external coverings, which may provide a means of maintaining the bump cap on the head.

3.3

harness

3.3.1

assembly

complete assembly that may provide a means:

- a) of maintaining the bump cap in position on the head;
- b) of absorbing kinetic energy during an impact.

NOTE A harness may include the items defined in 3.3.2, 3.3.3, 3.3.4 and 3.3.5.

3.3.2

headband

part of the harness, if fitted, completely or partly surrounding the head above the eyes at approximately the largest horizontal circumference of the head

NOTE The headband may include a nape strap.

3.3.3

nape strap

adjustable or self-adjusting strap that fits behind the head below the plane of the headband

NOTE A nape strap may be an integral part of the headband, and may be elasticated.

3.3.4

cradle

assembly of parts of the harness, if fitted, in contact with the head, excluding the headband and nape strap, if fitted

NOTE The cradle may be either fixed or adjustable.

3.3.5

comfort band or sweatband

accessory to cover at least the inner front surface of the headband, if fitted, to improve wearer comfort

3.4

ventilation holes

holes provided in the shell, and/or external coverings, which can allow circulation of air inside the bump cap

3.5

chin strap

strap which fits under the chin to help secure the bump cap on the head

3.6

chin strap anchorages

means by which the material of the chin strap is attached to the bump cap

NOTE This includes, for example:

- the component(s) fitted to the ends of the chin strap material for this purpose;
- that part of the bump cap shell or of the headband where the chin strap is attached.

3.7

bump cap accessories

any additional parts for special purposes

NOTE Examples of accessories are chin strap, neck protector, nape strap, external coverings.

3.8

wearing height

vertical distance from the lower edge of the headband, if fitted, (or from the lower edge of the bump cap if there is no headband) to the highest point of the headform on which the bump cap is mounted, measured either at the front (midway between the sides of the headform) and at the side (midway between the front and back of the headform) whichever gives the greater distance