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NSAI Standards

Irish Standard
I.S. EN ISO 20345:2011

Personal protective equipment - Safety footwear (ISO 20345:2011)

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This document replaces:
EN ISO 20345:2004

This document is based on:	*Published:*
EN ISO 20345:2011	1 January, 2012
EN ISO 20345:2004	18 August, 2004

This document was published under the authority of the NSAI and comes into effect on:

1 January, 2012

ICS number:

13.340.50

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 20345

December 2011

ICS 13.340.50

Supersedes EN ISO 20345:2004

English Version

Personal protective equipment - Safety footwear (ISO 20345:2011)

Équipement de protection individuelle - Chaussures de sécurité (ISO 20345:2011)

Persönliche Schutzausrüstung - Sicherheitsschuhe (ISO 20345:2011)

This European Standard was approved by CEN on 14 December 2011.

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Contents

Page

Foreword 3

Annex ZA (informative) **Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC Personal Protective Equipment** 4

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Foreword

This document (EN ISO 20345:2011) has been prepared by Technical Committee CEN/TC 161 “Foot and leg protectors”, the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 94 "Personal safety - Protective clothing and equipment".

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of an identical text or by endorsement, at the latest by June 2012, and conflicting national standards shall be withdrawn at the latest by June 2012.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 ISO 20345:2004.

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.

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

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 and the United Kingdom.

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Annex ZA
(informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC Personal Protective Equipment

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 89/686/EEC Personal Protective Equipment.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Clauses of this European Standard addressing Essential Requirements or other provisions of EU Directives

Clauses of this European Standard	Essential requirements (ERs) of EU Directive 89/686/EEC Annex II	
	1.	General requirements applicable to all PPE
5.3.4	1.1.1	Ergonomics
5.3.4	1.1.2.1	Highest level of protection possible
	1.2	Innocuousness of PPE
5.3.2.2; 5.4.8; 5.8.5; 6.2.1.2; 6.2.1.3; 6.2.5; 6.3.1	1.2.1	Absence of risks and other inherent nuisance factors
5.4.7; 5.4.9; 5.5.4; 5.5.5; 5.6.2; 5.6.3; 5.7.2; 5.7.5	1.2.1.1	Suitable constituent materials
5.3.4	1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user
5.3.4	1.2.1.3	Maximum user impediment
	1.3	Comfort and efficiency
5.3.1.2; 5.3.2.5.1; 5.3.2.5.2; 5.4.3; 5.4.4; 5.4.5; 5.5.1; 5.5.2; 5.6.1; 5.7.4; 5.8.2; 5.8.3; 5.8.4; 5.8.6; 6.2.1.4; 6.2.1.5.1; 6.4.1; 6.4.2	1.3.2	Lightness and design strength
8	1.4	Information supplied by the manufacturer
5.4.6; 5.5.3	2.2	PPE enclosing the parts of the body to be protected
6.2.2.1; 6.2.2.2	2.6	PPE for use in explosive atmospheres
6.1; 7	2.12	PPE bearing one or more identification or recognition marks directly indirectly or relating to health and safety
	3.1	Protection against mechanical impact
5.3.2.3; 6.2.4; 6.2.6; 6.2.7	3.1.1	Impact caused by falling objects and collision of parts of the body with an obstacle

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Table ZA.1 (*continued*)

Clauses of this European Standard	Essential requirements (ERs) of EU Directive 89/686/EEC Annex II	
5.3.5	3.1.2	Prevention of falls due to slipping
5.3.2.4	3.2	Protection against (static) compression of part of the body
6.2.1.1; 6.2.1.5.2; 6.2.8	3.3	Protection against physical injury (abrasion, perforation, cuts, bites)
6.2.3.1	3.6	Protection against heat and/or fire
6.2.3.2	3.7	Protection against cold
6.2.2.3	3.8	Protection against electric shock

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

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INTERNATIONAL STANDARD

ISO 20345

Second edition
2011-12-15

Personal protective equipment — Safety footwear

Équipement de protection individuelle — Chaussures de sécurité

Reference number
ISO 20345:2011(E)

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Published in Switzerland

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Contents

Page

Foreword iv
1 Scope 1
2 Normative references 1
3 Terms and definitions 1
4 Classification and designs 6
5 Basic requirements for safety footwear 8
5.1 General 8
5.2 Design 10
5.3 Whole footwear 11
5.4 Upper 14
5.5 Vamp and quarter lining 16
5.6 Tongue 17
5.7 Insole and insock 17
5.8 Outsole 18
6 Additional requirements for safety footwear 19
6.1 General 19
6.2 Whole footwear 20
6.3 Upper — Water penetration and absorption 24
6.4 Outsole 24
7 Marking 24
8 Information to be supplied 25
8.1 General 25
8.2 Electrical properties 26
8.3 Insocks 27
Annex A (normative) **Hybrid footwear** 28
Bibliography 30

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 20345 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 161, *Foot and leg protectors*, in collaboration with Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 3, *Foot protection*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 20345:2004), which has been technically revised. It also incorporates the Amendment ISO 20345:2004/Amd. 1:2007 and the Technical Corrigenda ISO 20345:2004/Cor.1:2005 and ISO 20345:2004/Cor.2:2006.

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