

საქართველოს სტანდარტი

შენიშვნებისა და სხვა სტრუქტურების სახანძრო ჩაფხუტები

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

საინფორმაციო მონაცემები

1 შემუშავებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ

2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2019 წლის 20 დეკემბრის № 102 განკარგულებით

3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 443:2008 “შენობებისა და სხვა სტრუქტურების სახანძრო ჩაფხუტები”

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2019 წლის 20 დეკემბერი №268-1.3-016774

დაუშვებელია წინამდებარე სტანდარტის სრული ან ნაწილობრივი კვლავწარმოება, ტირაჟირება და გავრცელება სსიპ საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს ნებართვის გარეშე

English Version

Helmets for fire fighting in buildings and other structures

Casques pour la lutte contre les incendies dans les
bâtiments et autres structures

Feuerwehrhelme für die Brandbekämpfung in Gebäuden
und anderen baulichen Anlagen

This European Standard was approved by CEN on 28 December 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Requirements	9
4.1 General	9
4.1.1 Surface finish	9
4.1.2 Innocuousness of materials	9
4.1.3 Visual defects	9
4.1.4 Additional devices and accessories	9
4.1.5 Face protectors	10
4.1.6 Neck guards	10
4.1.7 Protection of area 3b	10
4.1.8 Wearing the helmet	10
4.2 Shock absorption	10
4.2.1 Area 1a	10
4.2.2 Areas 1a and 1b	10
4.3 Resistance to penetration	10
4.4 Lateral crushing	10
4.5 Retention system effectiveness	10
4.6 Retention system strength	11
4.7 Radiant heat	11
4.7.1 Areas 1a and 1b	11
4.7.2 Areas 3a and 3b	11
4.8 Protection against hot solids	11
4.9 Protection against molten metals	11
4.9.1 Areas 1a and 1b	11
4.9.2 Areas 3a and 3b	11
4.10 Heat resistance	12
4.10.1 Area 1a, area 1b and area 2	12
4.10.2 Area 3a	12
4.11 Flame resistance	12
4.12 Electrical properties	12
4.12.1 Conductive headform	12
4.12.2 Wet helmet insulation	12
4.12.3 Surface insulation	12
4.13 Contact with liquid chemicals (optional)	13
4.13.1 Areas 1a, 1b	13
4.13.2 Areas 3a, 3b	13
4.14 Field of vision	13
4.15 Extent of protection	13
4.15.1 Area 1a and area 1b	13
4.15.2 Area 3b (optional)	14
5 Test procedures	14
5.1 Sampling and helmet adjustment	14
5.1.1 Sampling	14
5.1.2 Helmet adjustment	14
5.2 Visual inspection	14
5.3 Conditioning	14
5.3.1 General	14

5.3.2	Ultra-violet (UV) ageing	15
5.3.3	Thermal shock.....	15
5.3.4	Solvent conditioning.....	15
5.3.5	"Thermal plus" conditioning.....	15
5.3.6	"Thermal minus" conditioning	15
5.3.7	Wet conditioning.....	15
5.4	Shock absorption.....	16
5.4.1	Area 1a	16
5.4.2	Areas 1a and 1b.....	16
5.5	Resistance to penetration	17
5.6	Lateral crushing	17
5.6.1	Principle	17
5.6.2	Procedure	17
5.7	Retention system effectiveness	17
5.8	Retention system strength.....	18
5.9	Radiant heat.....	18
5.9.1	Areas 1a and 1b.....	18
5.9.2	Areas 3a and 3b.....	18
5.10	Protection against hot solids.....	18
5.11	Protection against molten metals	18
5.11.1	Area 1a and 1b.....	18
5.11.2	Area 3a and area 3b	19
5.12	Heat resistance.....	19
5.12.1	Areas 1a and 1b.....	19
5.12.2	Area 3a	19
5.13	Flame resistance.....	19
5.14	Electrical properties.....	19
5.14.1	Conductive headform test.....	19
5.14.2	Wet helmet insulation test	19
5.14.3	Surface insulation test	20
5.15	Contact with liquid chemicals (optional).....	20
5.15.1	Areas 1a and 1b.....	20
5.15.2	Areas 3a and 3b.....	20
5.16	Field of vision	20
5.17	Extent of protection, area 1a and 1b.....	20
5.17.1	Equipment.....	20
5.17.2	Samples	20
5.17.3	Test method.....	20
6	Marking	20
7	Information to be supplied by the manufacturer	21
Annex A (informative)	List of hazards	29
Annex B (normative)	Conditioning – Testing schedule	32
Annex C (informative)	Checking compatibility of PPE	34
Annex D (informative)	Test results, uncertainty of measurement.....	36
D.1	Uncertainty of measurement	36
D.2	Interpretation of results.....	36
D.3	Calculation of uncertainty of measurement.....	37
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC	38
Bibliography		40

Foreword

This document (EN 443:2008) has been prepared by Technical Committee CEN/TC 158 “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 2008, and conflicting national standards shall be withdrawn at the latest by August 2008.

This document supersedes EN 443:1997.

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.

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, 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 United Kingdom.

Introduction

Minimum requirements for helmets protecting the lower face and the neck are included in this European Standard. Requirements for other products protecting the lower face and neck are also covered in other European Standards. This European Standard allows options to take account of particular additional requirements.

This European Standard deals with two types of helmets: type A and type B. Selection of the type of helmet and any optional equipment should be made following a comprehensive risk assessment.

Annex A gives an informative list of hazards.

Firefighters should be trained in the use, care and maintenance of helmets covered by this European Standard, including an understanding of any limitations.