
Gorniška oprema - Čelade za turno smučanje - Varnostne zahteve in preskusne metode

Mountaineering equipment - Helmets for ski mountaineers - Safety requirements and test methods

Bergsteigerausrüstung - Helme für Skitourengeher - Sicherheitstechnische Anforderungen und Prüfverfahren

Équipement d'alpinisme et d'escalade - Casques de skieurs alpinistes - Exigences de sécurité et méthodes d'essai

Ta slovenski standard je istoveten z: EN 18100:2025

SIST EN 18100:2026

<https://standards.keh.si/catalog/standards/sist/643951ed-0e93-4777-9807-890555d2e7e5/sist-en-18100-2026>

ICS:

13.340.20	Varovalna oprema za glavo	Head protective equipment
97.220.40	Oprema za športe na prostem in vodne športe	Outdoor and water sports equipment

SIST EN 18100:2026

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 18100

October 2025

ICS 97.220.40

English Version

**Mountaineering equipment - Helmets for ski mountaineers
- Safety requirements and test methods**

Équipements d'alpinisme et d'escalade - Casques de
skieurs alpinistes - Exigences de sécurité et méthodes
d'essai

Bergsteigerausrüstung - Helme für Skitourengeher -
Sicherheitstechnische Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 1 September 2025.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

SIST EN 18100:2026

<https://standards.iteh.ai/catalog/standards/sist/c43951cd-0c93-4777-9807-890555d2c7c5/sist-en-18100-2026>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Requirements.....	9
4.1 Construction requirements.....	9
4.1.1 Materials	9
4.1.2 Design.....	9
4.1.3 Retention system	9
4.1.4 Ventilation.....	9
4.1.5 Field of vision	9
4.1.6 Ergonomics.....	10
4.1.7 Weight information.....	10
4.2 Performance requirements.....	10
4.2.1 Shock absorption	10
4.2.2 Penetration	10
4.2.3 Retention system strength	10
4.2.4 Retention system effectiveness (roll off)	10
4.2.5 Non-integral additional protective device(s)	10
5 Test methods	11
5.1 General examination of material and construction	11
5.2 Retention system design	11
5.3 Ventilation test	11
5.4 Ergonomics.....	11
5.4.1 General.....	11
5.4.2 Procedure	12
5.5 Sampling.....	12
5.6 Helmet adjustment.....	12
5.7 Conditioning	12
5.7.1 General.....	12
5.7.2 UV ageing	13
5.7.3 Ambient conditioning.....	13
5.7.4 "Thermal plus" conditioning.....	14
5.7.5 "Thermal minus" conditioning.....	14
5.8 Headforms	14
5.9 Force transmission.....	14
5.9.1 Impact points.....	14
5.9.2 Principle	15
5.9.3 Apparatus	16
5.9.4 Procedure	17
5.9.5 Report	17
5.10 Determination of shock absorption capacity	17
5.10.1 Apparatus	17
5.10.2 Impact test area.....	17
5.10.3 Procedure	19
5.10.4 Report	19
5.11 Resistance to penetration	19

5.11.1	Impact area	19
5.11.2	Principle.....	19
5.11.3	Apparatus	20
5.11.4	Procedure	22
5.11.5	Report	22
5.12	Determination of retention system strength.....	22
5.12.1	Apparatus	22
5.12.2	Procedure	22
5.12.3	Report	22
5.13	Retention system effectiveness	22
5.13.1	Principle.....	22
5.13.2	Apparatus	23
5.13.3	Procedure	23
5.13.4	Report	25
6	Marking	25
7	Manufacturer's instructions and information	25
Annex A	(informative) Recommendations on the materials and construction for thermal comfort of helmets for ski mountaineers	26
Annex B	(informative) Mountaineering equipment standards	27
Annex ZA	(informative) Relationship between this European Standard and the essential Requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment aimed to be covered	29
Bibliography		31

Document Preview

[SIST EN 18100:2026](https://standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/c43951cd-0c93-4777-9807-890555d2c7c5/sist-en-18100-2026>