



SLOVENSKI STANDARD

SIST EN 13277-7:2009

01-julij-2009

Varovalna oprema za borilne športe - 7. del: Dodatne zahteve in preskusne metode za ščitnike rok in nog

Protective equipment for martial arts - Part 7: Additional requirements and test methods for hand and foot protectors

Schutzausrüstung für den Kampfsport - Teil 7: Zusätzliche Anforderungen und Prüfverfahren für Hand- und Fußschützer

Équipement de protection pour les arts martiaux - Partie 7 : Exigences et méthodes d'essai complémentaires pour protecteurs de main et de pied

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Ta slovenski standard je istoveten z: **EN 13277-7:2009**

ICS:

13.340.40	Varovanje dlani in rok	Hand and arm protection
13.340.50	Varovanje nog in stopal	Leg and foot protection
97.220.30	Oprema za dvoranske športe	Indoor sports equipment

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13277-7

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ICS 13.340.40; 13.340.50

English Version

Protective equipment for martial arts - Part 7: Additional requirements and test methods for hand and foot protectors

Équipement de protection pour les arts martiaux - Partie 7:
Exigences et méthodes d'essai complémentaires relatives
aux protecteurs de main et de pied

Schutzrüstung für den Kampfsport - Teil 7: Zusätzliche
Anforderungen und Prüfverfahren für Hand- und
Fußschützer

This European Standard was approved by CEN on 31 January 2009.

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.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Classification.....	5
4.1 Hand protectors	5
4.2 Foot protectors	5
5 Requirements	5
5.1 Innocuousness.....	5
5.2 Sizing	6
5.3 Combinations	6
5.4 Restraint	6
5.5 Zone of protection	6
5.5.1 General.....	6
5.5.2 Hand protectors	6
5.5.3 Foot protectors	11
5.6 Impact performance	11
6 Testing	12
6.1 Sampling.....	12
6.2 Conditioning.....	12
6.3 Effectiveness of the restraint system.....	12
6.4 Impact performance	14
6.4.1 Apparatus	14
6.4.2 Procedure	15
6.5 Zone of protection	16
6.5.1 Hand protectors	16
6.5.2 Foot protectors	16
7 Marking	16
8 Information supplied by the manufacturer	16
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC.....	17

Figures

Figure 1 — Dimensions of hand protectors, class A	7
Figure 2 — Dimensions of hand protectors, class B	8
Figure 3 —Zone of protection on the hand protector, class A	9
Figure 4 — Zones of protection of the hand protector, class B	10
Figure 5 — Positioning of the zone of protection of foot protectors	11
Figure 6 — Direction of the force applied on hand protectors	13
Figure 7 — Direction of the force applied on foot protectors	14
Figure 8 — Principle of impact testing of hand protectors and foot.....	15

Foreword

This document (EN 13277-7:2009) has been prepared by Technical Committee CEN/TC 162 "Protective clothing including hand and arm protection and lifejackets", the secretariat of which is held by DIN.

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 September 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.

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

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

EN 13277 consists of the following parts, under the general title *Protective equipment for martial arts*

- Part 1: General requirements and test methods
- Part 2: Additional requirements and test methods for instep protectors, shin protectors and forearm protectors
- Part 3: Additional requirements and test methods for trunk protectors
- Part 4: Additional requirements and test methods for head protectors
- Part 5: Additional requirements and test methods for genital protectors and abdominal protectors
- Part 6: Additional requirements and test methods for breast protectors for females
- Part 7: Additional requirements and test methods for hand and foot protectors

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 the United Kingdom.

Introduction

Hand and foot protectors are used in martial arts to protect the hand or the foot of the user from injuries when strikes are executed against persons or objects by the hand or the foot.

This European Standard does not consider the protective performance of the hand protector or the foot protector for the opponent.

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1 Scope

This European Standard specifies additional requirements and test methods for hand and foot protectors which are used in unarmed martial arts, including boxing, for strikes against other persons or training equipment.

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 13277-1:2000, *Protective equipment for martial arts — Part 1: General requirements and test methods*

3 Terms and definitions

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

3.1

hand protector

equipment worn on the hand to protect the user against injuries caused by strikes against other persons or training equipment

3.2

foot protector

equipment to protect the entire foot (without the sole area) against injuries caused by strikes against other persons or training equipment

4 Classification

4.1 Hand protectors

The following classes of hand protectors are defined:

- Class A: Hand protectors comprising a zone of normal (simple) protection (see Figure 1).
- Class B: Hand protectors comprising a zone of increased protection (see Figure 2).

4.2 Foot protectors

There are no different classes specified.

5 Requirements

5.1 Innocuousness

Hand and foot protectors shall comply with the requirements in EN 13277-1:2000, 4.2.

EN 13277-7:2009 (E)**5.2 Sizing**

The manufacturer shall indicate the size range for which the hand or foot protector is designed.

5.3 Combinations

Hand protectors or foot protectors can be used together with other protective equipment for martial arts.

If the combined use is not appropriate, this shall be indicated in the information supplied by the manufacturer.

5.4 Restraint

The restraint system shall meet the requirements defined in EN 13277-1:2000, 4.3.

A restraint system shall be supplied by the manufacturer which enables the user to attach the foot protector without any assistance. In the case of hand protectors, the assistance of an additional person may be necessary. The protector shall remain in place during use.

Restraint devices shall be so designed that they may not cause unnatural forces or movements or constrict limbs.

Testing shall be carried out according to 6.3.

5.5 Zone of protection

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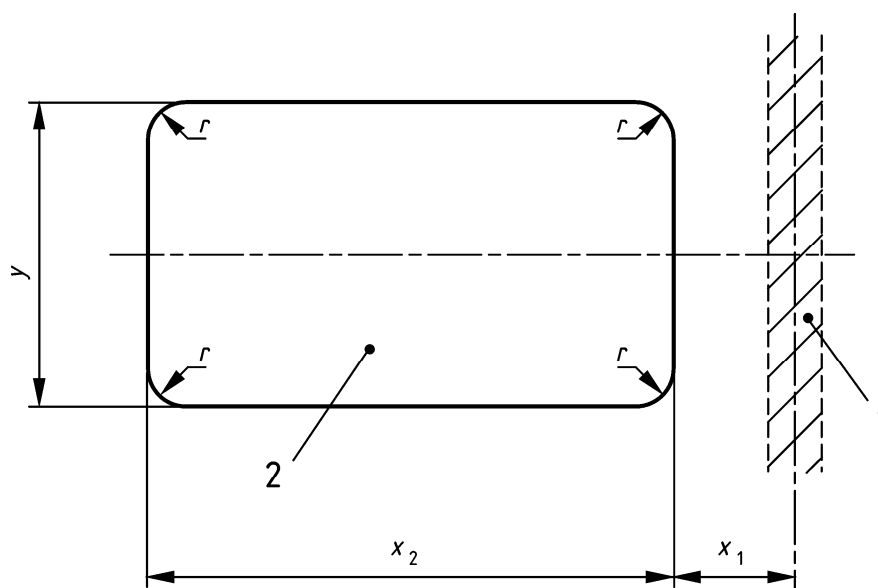
5.5.1 General

Dimensions and positions with respect of the hand or the foot to the zones of protection of hand protectors and foot protectors are defined by Figures 1 to 5 and by Tables 1 to 3.

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5.5.2 Hand protectors**5.5.2.1 Dimensions****5.5.2.1.1 Class A**

For dimensions of the zone of protection, see Figure 1 and Table 1.

**Key**

- 1 wrist area
- 2 zone of protection

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Figure 1 — Dimensions of hand protectors, class A

Table 1 — Dimensions of hand protectors, class A
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Dimensions in millimetres

Size	x_1 maximum	x_2 minimum	y minimum	r maximum
5	10	70	60	20
6	15	80	65	
7	20	90	70	
8	25	100	75	
9	30	110	80	
10	35	120	85	
11	40	130	90	

5.5.2.1.2 Class B

For dimensions of the zone of protection see Figure 2 and Table 2.