
Športne blazine - 2. del: Blazina za skok s palico in skok v višino, varnostne zahteve

Sports mats - Part 2: Pole vault and high jump mats, safety requirements

Sportmatten - Teil 2: Stabhochsprung- und Hochsprung-Matten, sicherheitstechnische Anforderungen

Tapis de sport - Partie 2: Sautoirs pour saut à la perche et saut en hauteur, exigences de sécurité

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 12503-2

April 2001

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English version

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This European Standard was approved by CEN on 21 January 2001.

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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 Management Centre has the same status as the official versions.

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational equipment", 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of an identical text or by endorsement, at the latest by October 2001, and conflicting national standards shall be withdrawn at the latest by October 2001.

This standard EN 12503 "Sports mats" consists of:

Part 1:

Gymnastic mats, safety requirements

Part 2:

Pole vault and high jump mats, safety requirements

Part 3:

Judo mats, safety requirements

Part 4:

Determination of shock absorption

Part 5:

Determination of the base friction

Part 6:

Determination of the top friction

Part 7:

Determination of static stiffness

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies safety requirements (including performance requirements) for 3 types of high jump and pole vault mats used in school, training and competition (see clause 4).

The performance and safety values cover shock absorption and anti-slip characteristics of the base.

NOTE For the specific requirements of international official competitions, see appropriate international regulations.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12503-1:2001
Sports mats – Part 1: Gymnastic mats, safety requirements

EN 12503-3:2001
Sports mats – Part 3: Judo mats, safety requirements

EN 12503-4:2001
Sports mats – Part 4: Determination of shock absorption

EN 12503-5:2001
Sports mats – Part 5: Determination of the base friction

3 Terms and definitions

For the purposes of this standard the following terms and definitions apply:

3.1

shock absorption

ability of the mat to reduce impact forces on the athlete, expressed as a maximum deceleration under defined test conditions [EN 12503-1:2001]

3.2

percentage deflection

ability of the mat to deform to an impact expressed as a percentage of the mat thickness

3.3

resilience

ability of the mat to return energy after the impact, expressed as resilience in percent under defined test conditions [EN 12503-1:2001]

3.4

base

under side of the mat designed to be in contact with the floor during use [EN 12503-1:2001]

4 Classification

Pole vault and high jump mats shall be classified by the design (types) as shown in table 1.

Table 1 - Types

Type	Typical use
9	High jump (schools, training)
10	High jump (competition)
11	Pole vault
NOTE For types 1 to 8 see EN 12503-1:2001 and for type 12 see EN 12503-3:2001.	

5 Safety requirements

5.1 Shock absorption

When tested according with EN 12503-4:2001, the mats shall comply with the values of table 2.

Table 2 - Shock absorption

Type	Peak deceleration g (1 $g = 9,81 \text{ ms}^{-2}$)	Percentage deflection %	Resilience %
9	≤ 10	≤ 70	≤ 20
10	≤ 10	≤ 60	≤ 20
11	≤ 10	≤ 55	≤ 20

5.2 Base friction characteristics

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When tested in accordance with EN 12503-5:2001 the mat shall have a value of friction according to table 3, unless the mat is prevented from moving by a mechanical means.

Table 3 - Base friction characteristics

Type	Frictional value
9	$\geq 4,5$
10	test not needed
11	test not needed

6 Marking

Mats shall be marked legibly and indelibly with the following information:

- the number of this European Standard EN 12503-2 and the type number;
- the name or trademark of the manufacturer, retailer or importer and year of manufacturing;
- which is the top surface of the mat (if not clearly recognizable).

Annex A (informative)**Flame retardancy**

Sports matting for use in the United Kingdom shall satisfy certain minimum levels of flame retardancy. These levels and the required test methodology are detailed in BS 1892:2.10 : 1999 (revised).

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