



**SLOVENSKI STANDARD**  
**SIST EN 957-6:2011/kFprA1:2013**  
**01-december-2013**

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**Nepremična oprema za vadbo - 6. del: Tekoče preproge, dodatne posebne varnostne zahteve in preskusne metode**

Stationary training equipment - Part 6: Treadmills, additional specific safety requirements and test methods

Stationäre Trainingsgeräte - Teil 6: Laufbänder, zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren

Appareils d'entraînement fixes - Partie 6: Tapis de course, méthodes d'essai et exigences de sécurité spécifiques supplémentaires

**Ta slovenski standard je istoveten z: EN 957-6:2010/FprA1**

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**ICS:**

97.220.30 Oprema za dvoranske športe Indoor sports equipment

**SIST EN 957-6:2011/kFprA1:2013 en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**FINAL DRAFT**  
**EN 957-6:2010**

**FprA1**

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English Version

## Stationary training equipment - Part 6: Treadmills, additional specific safety requirements and test methods

Appareils d'entraînement fixes - Partie 6: Tapis de course, méthodes d'essai et exigences de sécurité spécifiques supplémentaires

Stationäre Trainingsgeräte - Teil 6: Laufbänder, zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 136.

This draft amendment A1, if approved, will modify the European Standard EN 957-6:2010. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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## Contents

	Page
Foreword.....	4
1 Modification to the Foreword.....	5
2 Modification to the Introduction .....	5
3 Modification to the Scope .....	5
4 Modifications to Clause 2 "Normative references".....	6
5 Modification to 3.5 "side handrail" .....	6
6 Addition of new Clause 4 "List of significant hazards" .....	6
7 Modifications to Clause 5 "Safety requirements".....	8
8 Modifications to 5.2 "Transmission elements and rotating parts" .....	8
9 Modification to 5.3 "Temperature rise" .....	8
10 Modifications to 5.4 " Safety stop" .....	8
11 Modification to 5.5 " Immobilization method".....	9
12 Modification to 5.6 "Stability" .....	9
13 Modification to 5.7 "Static loading".....	9
14 Modifications to 5.8 "Endurance".....	9
15 Modification to 5.9.2 "Treadmills with side handrails only".....	9
16 Modifications to 5.9.3 "Treadmills with front handlebar and side handrails".....	9
17 Modifications to 5.10 "Foot rails" .....	9
18 Modification to 5.11 "Running surface" .....	10
19 Modification to 5.12 "Acceleration".....	10
20 Modification to 5.13 "Heart rate control mode" .....	10
21 Modifications to 5.14 "Folding treadmills" .....	10
22 Modifications to 5.15 "Electrical safety" .....	10
23 Add a new subclause 6.16 "Noise" .....	11
24 Modifications to 5.16 "Additional classified requirements".....	11
25 Modification to 5.17 "Additional warning label" .....	11
26 Modification to Clause 6 "Test methods" .....	11
27 Modifications to 6.1 "Testing of transmission elements and rotation parts".....	11
28 Modification to 6.2 "Testing of temperature rise".....	12
29 Modification to 6.3 "Testing of the safety stop" .....	12
30 Modifications to 6.4 " Testing of the actuator(s)".....	12
31 Modification to 6.5 "Testing of immobilization method" .....	12
32 Modifications to 6.6.1 "Test in training position" .....	12
33 Modification to 6.6.2 "Test in folded position".....	12
34 Addition of new subclause 7.6.3 "Test of the footrail support system" .....	12

35	Modifications to 6.7 "Load testing" .....	13
36	Modification to 6.8.1 "Requirement for the test apparatus....."	13
37	Modifications to 6.8.2 "Test method" .....	13
38	Modification to 6.9 "Testing of side handrails/front handlebar" .....	14
39	Modifications to 6.10 "Testing of foot rails"....."	14
40	Modification to 6.11 "Testing of the running surface" .....	14
41	Modifications to 6.13 "Testing of the heart rate control mode" .....	14
42	Modification to 6.14.1 "Testing of inadvertent release when packaged"....."	14
43	Modification to 6.14.2 "For treadmill where the running surface is designed to be folded up when stored....."	14
44	Modification to 6.14.3 "For treadmill where the console is designed to be folded down when stored" .....	15
45	Modification to 6.14.4 "Testing the maximum handling force" .....	15
46	Modification to 6.15 "Testing of the accuracy of time, speed and distance" .....	15
47	Addition of a new subclause 7.16 "Noise testing"....."	15
48	Modification to Clause 7 "Test report" .....	15
49	Addition of new Clause 9 "Marking"....."	16
50	Modifications to Clause 8 "Additional instructions for use" .....	16
51	Addition of an Annex ZA....."	17
52	Modifications to the Bibliography .....	18

**EN 957-6:2010/FprA1:2013 (E)****Foreword**

This document (EN 957-6:2010/FprA1:2013) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

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 2001/95/EC and EU Directive 2006/42/EC.

For relationship with EU Directive 2006/42/EC, see informative Annex ZA, which is an integral part of this document.

## 1 Modification to the Foreword

*Add the following text after the third paragraph:*

"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 2001/95/EC and EU Directive 2006/42/EC.

For relationship with EU Directives 2006/42/EC, see informative Annex ZA which is an integral part of this document."

## 2 Modification to the Introduction

*Replace the text with the following:*

"This European Standard amends and supplements EN 957-1. The requirements of this specific standard take precedence over those in EN 957-1.

This document is a type C standard as stated in ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard."

## 3 Modification to the Scope

*Replace the text with the following:*

"This European Standard specifies safety requirements and test methods for treadmills in addition to the general safety requirements and test methods of EN 957-1. It is intended that EN 957-6 is applied together with EN 957-1.

This part of EN 957 deals with significant hazards, hazardous situations and events relevant to stationary training equipment used as intended and under the conditions of misuse foreseeable by the manufacturer (see Clause 4).

EN 957-6 is applicable to power-driven as well as to non-power/manually driven training equipment type treadmills (hereafter referred to as treadmills) with the classes S, H and I and classes A, B and C regarding accuracy.

This document is not applicable to treadmills which are manufactured before the date of its publication as a European Standard."

**EN 957-6:2010/FprA1:2013 (E)****4 Modifications to Clause 2 "Normative references"**

*Replace the first paragraph with the following one:*

"The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies."

*Add the following references:*

*"EN ISO 11201, Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections (ISO 11201)*

*EN ISO 11202, Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections (ISO 11202)*

*EN ISO 12100, Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100)"*

**5 Modification to 3.5 "side handrail"**

*Replace "users weight" with "user's weight".*

**6 Addition of new Clause 4 "List of significant hazards"**

*Add the following new clause and renumber all following clauses:*

"

**4 List of significant hazards**

Table 1 shows all the significant hazards, hazardous situations and events, as far as they are dealt with in this European Standard, identified by risk assessment as significant for this type of equipment and which require action to eliminate or reduce the risk.

NOTE For a particular treadmill, a risk assessment should be carried out by the manufacturer to identify any additional significant hazards so that suitable protective measures can be taken. Additional hazards are outside the scope of this standard.

For identification and evaluation of hazards EN ISO 12100 applies.



Table 1 — List of significant hazards and major sources of these hazards associated with treadmills

*)	Description	Associated activity/situation
1.	<b>Mechanical hazards</b>	
1.1.	Crushing	Inclining
		Folding
1.2.	Shearing	Inclining
		Folding
1.3.	Drawing-in or Trapping	Rear roller
		Drive system
1.4.	Falling	Sudden starts/stops
		Excessive speed variation
		Support failure
1.5.	Abrasion	Contact with moving running surface
1.6.	Slippery surfaces	Slipping and Falling
1.7.	Stored energy	Folded treadmills falling down
		Springs or elastomeric devices prior to assembly
2.	<b>Electrical hazards</b>	
2.1.	Electrocution	Contact with live components
3.	<b>Thermal Hazards</b>	
3.1.	Burns	Contact with hot surfaces
4.	<b>Hazards generated by neglecting ergonomic principles in design process</b>	
4.1.	Ineffective ergonomics	Size or location of support surfaces
		Running surface dimensions
4.2.	Human errors, human behaviour	Reasonably foreseeable misuse
5.	<b>Noise Hazards</b>	
5.1.	Disturbing acoustic communication	Moving treadmill motor and belt

All following instructions refer to the original clause numbering of EN 957-6:2010.

"

**EN 957-6:2010/FprA1:2013 (E)****7 Modifications to Clause 5 "Safety requirements"**

*Replace the title with the following one:*

**"Safety requirements and/or protective measures"**

*Add a new first subclause and renumber the following subclauses:*

**"5.1 General**

The equipment shall comply with the safety requirements and/or protective measures of this clause. In addition, the equipment shall be designed according to the principles of EN ISO 12100 for relevant but not significant hazards, which are not dealt with by this document.

Fixed guards shall be fixed by systems that can be opened or removed only with tools. Fixed guards that have to be removed for maintenance, adjustment or inspection shall be retained by fasteners that are retained in the guard or machine when the guard is removed."

**8 Modifications to 5.2 "Transmission elements and rotating parts"**

*Replace the first two paragraphs with the following ones:*

"Drawing-in shall be prevented at all points between the running surface and fixed or moving parts of the treadmills or the floor.

Identifiable feature(s) indicating the acceptable lateral position(s) of the running surface shall be provided on the treadmill [see <sup>a</sup> in Figure 2 and 10 f)]."

*Delete the note.*

*Replace the reference in the third paragraph with "7.1".*

**9 Modification to 5.3 "Temperature rise"**

*Replace the reference to "6.2" with "7.2".*

**10 Modifications to 5.4 " Safety stop"**

*Replace the title with the following one:*

**"6.4 Safety stop (emergency stop)"**

*Add the following sentence after the second paragraph in 5.4.1 General:*

"Test in accordance with 7.3."

*Replace the reference in the third paragraph of 5.4.2 Characteristics with "6.2".*

*Replace the reference in the fourth paragraph of 5.4.2 Characteristics with "7.3".*

*Replace the first paragraph in 5.4.3 Actuators with the following one:*

"Actuators of safety stop devices shall be coloured RED. The actuator of a push-button operated switch shall be of the palm or mushroom head type and shall have a yellow background."

*Replace the reference in the last paragraph of 5.4.3 Actuators with "7.4".*