

# SLOVENSKI STANDARD

## SIST ENV 12521:2001

01-februar-2001

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nU hYj Y

Domestic furniture - Tables - Mechanical and structural safety requirements

Möbel für den Wohnbereich - Tische - Mechanische und konstruktive  
Sicherheitsanforderungen

Mobilier domestique - Tables - Exigences mécaniques et structurelles de sécurité

**Ta slovenski standard je istoveten z: ENV 12521:2000**  
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### ICS:

97.140

Pohištvo

Furniture

**SIST ENV 12521:2001**

**en**

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EUROPEAN PRESTANDARD  
PRÉNORME EUROPÉENNE  
EUROPÄISCHE VORNORM

**ENV 12521**

March 2000

ICS 97.140

English version

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requirements**

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structurelles de sécurité

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konstruktive Sicherheitsanforderungen

This European Prestandard (ENV) was approved by CEN on 1 March 2000 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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Page 2  
ENV 12521:2000

## Contents

	Page
Foreword .....	3
1 Scope .....	4
2 Normative reference .....	4
3 Terms and definitions .....	4
4 Safety requirements .....	5
5 Test Report .....	6
Table 1 - Sequence of tests and test loads .....	7

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## Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by IBN.

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

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## 1 Scope

This European pre-standard specifies mechanical and structural safety requirements for domestic tables, but not including height adjustment mechanisms and castors.

This European pre-standard does not apply to tables intended specifically for use by children or to occasional tables. It does not apply to outdoor tables or changing tables.

It does not include durability requirements for castors nor for height adjustment mechanisms.

Requirements for ageing and degradation are not included.

## 2 Normative reference

This European pre-standard incorporates by dated and 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 the European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publications referred to applies.

prEN 1730:1999 Domestic furniture - Tables - Test methods for determination of strength, durability and stability

## 3 Terms and definitions

For the purpose of this European Standard, the following terms and definitions apply:

**3.1 occasional table:** A table whose design is such that it is only intended for loading with light objects, e.g. telephones, flower pots, newspapers etc., and on which people are not expected to sit.

**3.2 low table:** A table with a height  $< 60$  cm and where it is a foreseeable misuse that people may occasionally sit on the top surface.

**3.3. normal height table:** A table, with a height  $\geq 60$  cm including dining tables and work tables where it is a foreseeable misuse that people may occasionally sit on the top surface.

**3.4 cantilever table:** A table whose vertical structure is near to one side (e.g. a "C" shaped frame).

**3.5 ancillary surface:** A surface additional to the main surface intended for occasional use as part of the table top e.g. flaps or extension leaves.

**3.6 accessible parts:** Parts to which access can easily be gained when the table is in its intended position of use (i.e. there is a high probability of unintentional user contact)

In order to distinguish the accessible parts from other parts, the furniture is imagined as enveloped in a shrunk film that completely follows the outer contours.

All parts which can be reached from the surface of the shrunk film by a probe 60 mm in length are accessible.

This probe consists of a cylinder made of plastic or other hard, smooth material with a 60 mm mark on its length. There are two probes having diameters 8mm and 25 mm.

**3.7 shear and squeeze points:** Shear and squeeze points exist if the distance between two accessible parts relative to each other can be less than 25 mm or more than 8 mm when under body weight.

## **4 Safety requirements**

### **4.1 Edges and corners**

Components or parts of the table with which the user may come into contact during normal use shall not have burrs, sharp edges or sharp points, nor shall there be any open ended tubes.

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### **4.2 Shear and squeeze points**

Shear and squeeze points shall as far as possible be avoided.

In cases where this is not possible, the requirements specified in 4.2.2 and 4.2.3 shall be fulfilled.

#### **4.2.1 Shear and squeeze points when setting up and folding**

Provided 4.2.2 and 4.2.3 are not applicable, shear and squeeze points that are created only during setting up or folding the table are acceptable because the user can be assumed to be in control of his/her movements and to be able to cease applying the effective forces immediately on experiencing pain.

#### **4.2.2 Shear and squeeze points under the influence of powered mechanisms**

There shall be no accessible shear and squeeze points being created by parts of the table operated by powered mechanisms, including springs.

#### 4.2.3 Shear and squeeze points under body weight

Shear and squeeze points as defined in 3.2 are not acceptable if unintentional movement of the parts may occur so that a hazard is created by the weight of the user.

Shear and squeeze points shall not be created by normal movements and actions, e.g. attempting to move the table by lifting or adjusting it.

#### 4.3 Stability

The table shall not overturn when tested in accordance with the stability tests specified in 6.7 of prEN 1730:1999. In the case of tables which might not fulfill the stability requirements before carrying out any tests, the applicable stability tests may be carried out before starting the sequence of tests specified in table 1.

#### 4.4 Structural

After carrying out the relevant strength and durability tests specified in table 1 there shall be no damage or change of function that affect the safety of the table. This also implies that after testing there shall be no sharp edges, sharp points etc.

It should be understood that fulfilling the specified requirements does not ensure that failure will not occur as a result of habitual misuse or after an excessively long period of service.

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The structural and stability tests shall be carried out in the sequence shown in table 1.

### 5 Test Report

The test report shall include the following items:

- (a) reference to this European Standard;
- (b) details of furniture tested;
- (c) any defects observed before testing;
- (d) the test results;
- (e) details of any deviations from this European Standard;
- (f) the name and address of the test facility;
- (g) the date of test.