



SLOVENSKI STANDARD

SIST EN 581-3:2007

01-september-2007

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Outdoor furniture - Seating and tables for camping, domestic and contract use - Part 3:
Mechanical safety requirements and test methods for tables

Außenmöbel - Sitzmöbel und Tische für Camping-, Wohn- und Objektbereich - Teil 3:
Mechanische Sicherheitsanforderungen und Prüfverfahren für Tische

Mobilier d'extérieur - Sieges et tables a usages domestique, collectif et de camping -
Partie 3: Exigences et essais de sécurité mécanique des tables

Ta slovenski standard je istoveten z: EN 581-3:2007

ICS:

97.140	Pohištvo	Furniture
97.200.30	Oprema za taborjenje in tabori	Camping equipment and camp-sites

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English Version

**Outdoor furniture - Seating and tables for camping, domestic
and contract use - Part 3: Mechanical safety requirements and
test methods for tables**

Mobilier d'extérieur - Siège et tables à usages domestique,
collectif et de camping - Partie 3: Exigences et essais de
sécurité mécanique des tables

Außenmöbel - Sitzmöbel und Tische für Camping-, Wohn-
und Objektbereich - Teil 3: Mechanische
Sicherheitsanforderungen und Prüfverfahren für Tische

This European Standard was approved by CEN on 15 March 2007.

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

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Foreword

This document (EN 581-3:2007) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

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 2007, and conflicting national standards shall be withdrawn at the latest by October 2007.

This document supersedes EN 581-3:1999.

Informative Annex B provides details of significant technical changes between this European Standard and the previous edition.

This document consists of following parts with the general title, *Outdoor furniture – Seating and tables for camping, domestic and contract use*:

Part 1: General safety requirements

Part 2 (ENV): Mechanical safety requirements and test methods for sampling

Part 4: (CEN/TR) Requirements and test methods for durability under the influence of climatic conditions

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 United Kingdom.

1 Scope

This European Standard specifies the mechanical safety requirements and test methods for outdoor tables used by adults for camping, domestic and contract use without regard to materials, design/construction or manufacturing processes.

This document does not apply to outdoor furniture for severe contract use where higher requirements may be necessary, nor does it apply to street furniture and furniture permanently fixed to the ground/wall.

Annex A (informative) specifies guidelines for purchase information.

Information regarding ageing and degradation caused by light, temperature and moisture has not been included.

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 581-1, *Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 1: General safety requirements*

EN 1730, *Domestic furniture – Tables – Test methods for determination of strength, durability and stability*

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3 Terms and definitions

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

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- 3.1 outdoor tables for contract use**
outdoor tables intended for non-private use in places with public access such as restaurants, open-air swimming pools, beaches and vocational and leisure sites
- 3.2 outdoor tables for domestic use**
outdoor tables intended for private use in places without public access such as gardens, winter gardens, terraces, balconies etc...
- 3.3 outdoor tables for camping use**
outdoor tables, foldable or knock-down and light-weight, intended for use in connection with camping and travelling

4 General test conditions

The general test conditions shall be as specified in EN 1730 with the exception of the conditioning time, which shall be at least 24 h, instead of 1 week.

The tests are described in terms of the application of forces. Masses, however, can be used. The relationship 10 N = 1 kg shall be used for this purpose.

5 Test equipment

5.1 General

The test equipment shall be as in EN 1730 with the exception of the floor which shall be as specified in 5.2.

5.2 Floor

Horizontal, flat and rigid with a smooth surface.

NOTE Examples of suitable floors: Plastics laminate, Bakelite board and steel.

5.3 Steel test tube

A steel tube, 18 mm in diameter and a 1,5 mm wall thickness with a length that allows a force to be applied from 2 200 mm above the floor.

6 Test methods and requirements

6.1 General

The general safety requirements stated in EN 581-1 shall be fulfilled.

The table shall not overturn when tested according to clause 6.2.

At the end of each test specified in clause 6.3 and clause 6.4, there shall be no structural damage or other deterioration that affects safety, and the table shall fulfil its functions (i.e. folding, unfolding, adjustments, operation of extensions etc).

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6.2 Stability

6.2.1 Stability test under vertical load

Measure the largest dimension of the table top.

NOTE 1 For rectangular tables, the largest dimension to consider is the length. The diagonal is not to consider as a dimension in this case.

Using this dimension, determine the force F, as follows (see also Figure 2):

- Camping use: $F = 200$
- Domestic use: For L smaller than 800 mm $F = 200$ N
For L between 800 mm and 1600 mm $F = L/4$ N
For L larger than 1 600 mm $F = 400$ N
- Contract use: For L smaller than 800 mm $F = 200$ N
For L between 800 mm and 1 000 mm $F = L-600$ N
For L larger than 1 000 mm $F = 400$ N

If the table is fitted with drawers, these shall not be loaded during this test.

The vertical force F shall be applied to the side where the load is most likely to cause overturning, as far away from the supports as possible, and at a point 50 mm from the outer edge of the table top (see Figure 1).

NOTE 2 Reference is made to EN 14749 for additional test methods for tables with storage capability.

Dimensions in millimetres

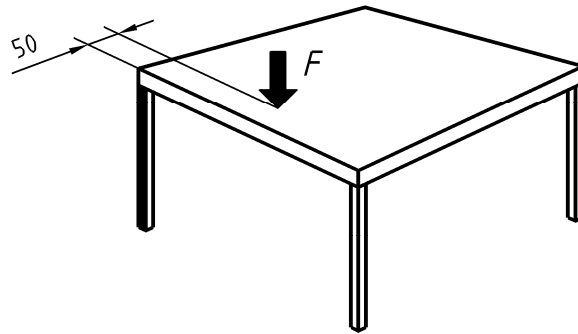
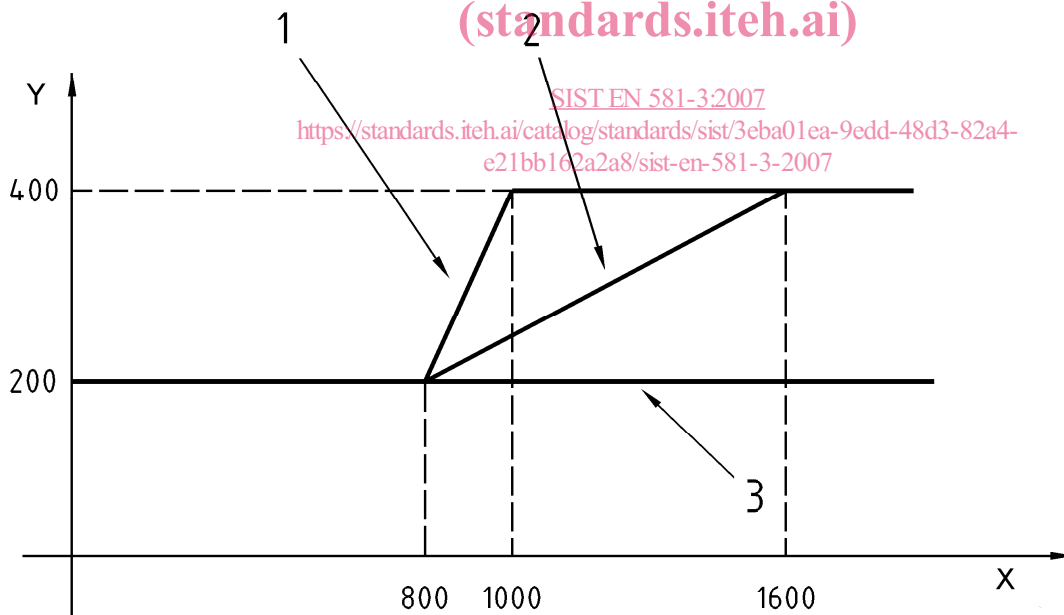


Figure 1 — Stability under vertical load

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Key

- | | | | |
|---|----------|---|-------------------------|
| 1 | Contract | X | L or \varnothing (mm) |
| 2 | Domestic | Y | F_1 (N) |
| 3 | Camping | | |

Figure 2 — Determination of the vertical stability force F

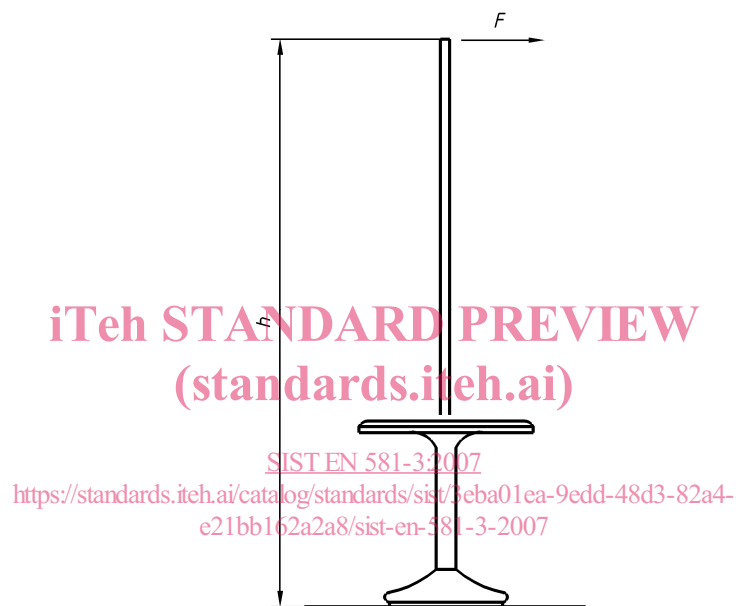
6.2.2 Tables where the structure is intended to support a parasol.

This test only applies to tables that do not require parasols to be used with their own bases.

Secure the steel test tube (5.3) in the table's fixture for holding parasols.

Apply a horizontal force F of 30 N at a height h of 2 200 mm (see Figure 3).

Figure 3 shows an example of a table where the structure is intended to support a parasol.



Key

F horizontal force

h height

Figure 3 — Stability of tables where the structure is intended to support a parasol

6.3 Vertical static load test

6.3.1 Vertical static load on the table top

Place the table on the floor (5.2) in normal position of use.

Apply, according to EN 1730, the force(s) F , specified in Table 1, at the following application point(s):

- for a table top length $L \leq 1\,600$ mm, at the geometric centre of the table (see Figure 4),
- for a table top length $L > 1\,600$ mm, at 2 points positioned on the longitudinal axis of the table top with 400 mm on either side of the transversal axis (see Figure 5),