

Outdoor furniture — Seating and tables for camping, domestic and contract use —

Part 1: General safety requirements

The European Standard EN 581-1:2006 has the status of a
British Standard

ICS 97.140

National foreword

This British Standard is the official English language version of EN 581-1:2006. It supersedes BS EN 581-1:1997 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FW/0, Furniture, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 8, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 April 2006

© BSI 2006

ISBN 0 580 48135 2

English Version

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

Mobilier d'extérieur - Sièges et tables à usages domestique, collectif et de camping - Partie 1 : Exigences générales de sécurité

Außenmöbel - Sitzmöbel und Tische für den Camping-, Wohn- und Objektbereich - Teil 1: Allgemeine sicherheitstechnische Anforderungen

This European Standard was approved by CEN on 9 January 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents		Page
Foreword		3
1 Scope		4
2 Normative references		4
3 Terms and definitions		4
4 Test equipment		4
5 Safety requirements		5
6 Test report		6
Annex A (informative) Schematic presentation of requirements and conditions concerning shear and squeeze points		7
Annex B (informative) Terminology		8

.....



Foreword

This European Standard (EN 581-1:2006) 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 August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

This European Standard supersedes EN 581-1:1997.

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

1 Scope

This European Standard specifies the general safety requirements for outdoor seating and tables for camping, domestic and contract use.

It does not apply to removable upholstery, coverings and permanently fixed furniture.

Annex A (informative) is a schematic presentation of requirements and conditions concerning shear and squeeze points.

Annex B (informative) includes a terminology for outdoor furniture.

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.

ENV 581-2 *Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 2: Mechanical safety requirements and test methods for sampling*

EN 581-3 *Outdoor furniture - Seating and tables for camping, domestic and contract use – Part 3: Mechanical safety requirements and test methods for tables*

3 Terms and definitions

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

3.1

Parts accessible during use

parts to which access can be easily gained when the furniture is in its intended configuration of use and for which unintentional contact is foreseeable

3.2

Automatic locking mechanism

mechanism which engages without guidance by the user and prevents unintended movement

3.3

Shear and squeeze point

shear and squeeze points exist if the distance between two accessible parts moving relative to each other is less than 18 mm and more than 7 mm in any position during movement

4 Test probe

Probes made of hard, smooth material, see Fig. 1. There shall be 3 probes having diameters of 7 mm, 12 mm and 18 mm with hemispherical end.

Dimensions in millimetres

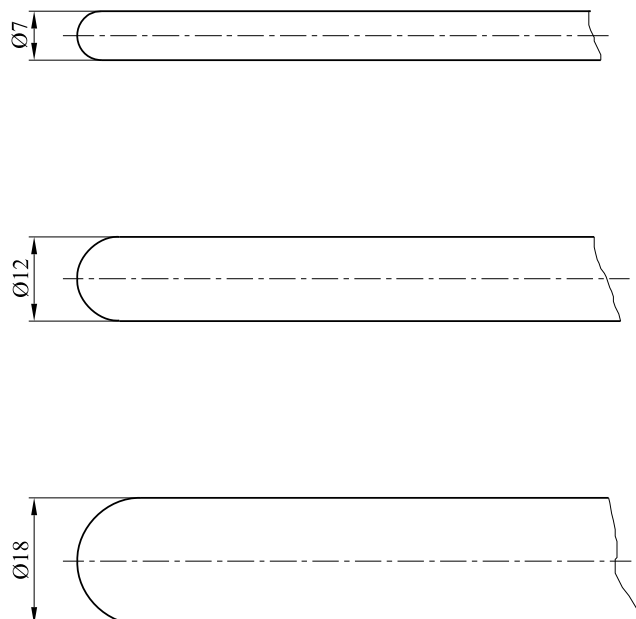


Figure 1 — Test probes

5 Safety requirements

5.1 Edges and corners

For seating, the edges and corners of the seat, back rest and arm rests which are directly in contact with the user when sitting, lying or reclining shall be rounded or chamfered.

For table tops the edges and corners which are directly in contact with the user shall be rounded or chamfered.

All other edges and corners of seating and tables, accessible during use shall be free from burrs or/and sharp edges.

5.2 Tubular components, holes and gaps accessible during use

Tubular components, holes and gaps accessible during use shall be covered if a 7 mm or 12 mm test probe (Clause 4) can be pushed into them in any direction with a maximum force of 30 N to a depth of more than 10 mm and cannot be pulled out again in the reverse direction by a maximum force of 30 N.

Bottom of tubular legs shall be capped or plugged.

5.3 Shear and squeeze points

5.3.1 Shear and squeeze points when setting up and folding

Unless 5.3.2 or 5.3.3 are applicable, shear and squeeze points that are created only during setting up or folding are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.

EN 581-1:2006 (E)

The edges of parts moving relative to each other and creating shear and squeeze points shall be as specified in 5.1.

5.3.2 Shear and squeeze points under the influence of powered mechanisms

There shall be no accessible shear and squeeze points created by parts of the furniture operated by powered mechanisms, e.g. mechanical springs, gas lifts.

5.3.3 Shear and squeeze points during use

There shall be no accessible shear and squeeze points created by loads applied during normal use.

For seating, the loads applied during normal use can be found in ENV 581-2, and for tables in EN 581-3.

Shear and squeeze points are not acceptable if a hazard is created by the weight of the user during normal movements and actions, e.g. attempting to move the seating by lifting the seat or by adjusting the backrest.

NOTE This hazard is best prevented by the use of automatic locking mechanisms.

6 Test report

The test report shall include at least the following information:

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

Annex A (informative)

Schematic presentation of requirements and conditions concerning shear and squeeze points

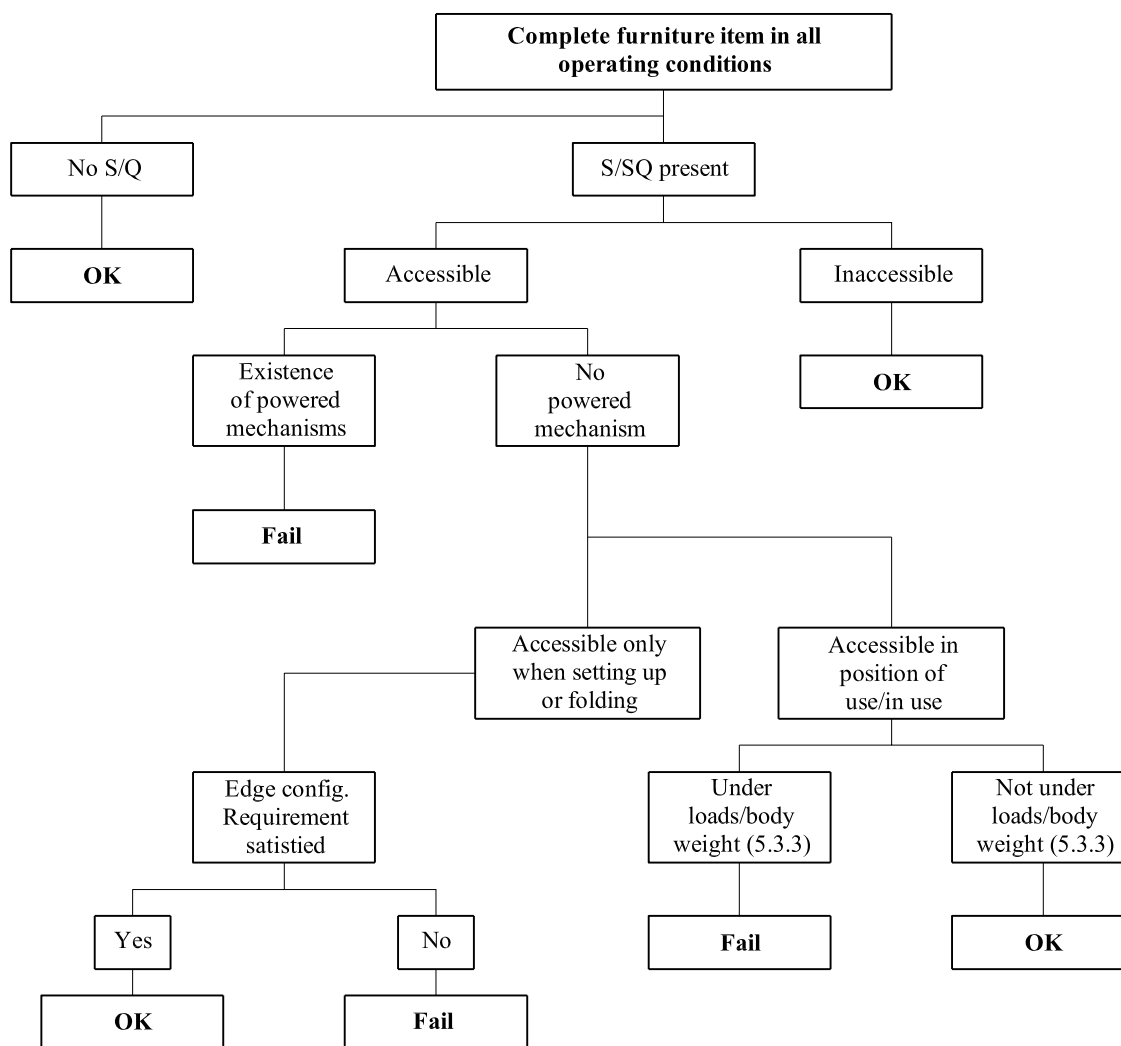


Figure A.1 - Schematic presentation of requirements and conditions concerning shear and squeeze points

Annex B (informative)

Terminology

B.1 Outdoor furniture for contract use

Outdoor furniture intended for non-private use in places with public access, like restaurants, open-air swimming pools, beaches, vocational and leisure sites.

B.2 Outdoor furniture for domestic use

Outdoor furniture intended for private use in places without public access like garden, wintergarden, terrace, balcony etc...

B.3 Outdoor furniture for camping use

Outdoor furniture foldable or knock-down and light-weight, intended for use in connection with camping and travelling.

© 2006 British Standards Institution

BSI — British Standards Institution

BSI is the independent national body responsible for preparing British Standards. It presents the UK view on standards in Europe and at the international level. It is incorporated by Royal Charter.

Revisions

British Standards are updated by amendment or revision. Users of British Standards should make sure that they possess the latest amendments or editions.

It is the constant aim of BSI to improve the quality of our products and services. We would be grateful if anyone finding an inaccuracy or ambiguity while using this British Standard would inform the Secretary of the technical committee responsible, the identity of which can be found on the inside front cover.
Tel: +44 (0)20 8996 9000. Fax: +44 (0)20 8996 7400.

BSI offers members an individual updating service called PLUS which ensures that subscribers automatically receive the latest editions of standards.

Buying standards

Orders for all BSI, international and foreign standards publications should be addressed to Customer Services. Tel: +44 (0)20 8996 9001.
Fax: +44 (0)20 8996 7001. Email: orders@bsi-global.com. Standards are also available from the BSI website at <http://www.bsi-global.com>.

In response to orders for international standards, it is BSI policy to supply the BSI implementation of those that have been published as British Standards, unless otherwise requested.

Information on standards

BSI provides a wide range of information on national, European and international standards through its Library and its Technical Help to Exporters Service. Various BSI electronic information services are also available which give details on all its products and services. Contact the Information Centre.
Tel: +44 (0)20 8996 7111. Fax: +44 (0)20 8996 7048. Email: info@bsi-global.com.

Subscribing members of BSI are kept up to date with standards developments and receive substantial discounts on the purchase price of standards. For details of these and other benefits contact Membership Administration.
Tel: +44 (0)20 8996 7002. Fax: +44 (0)20 8996 7001.
Email: membership@bsi-global.com.

Information regarding online access to British Standards via British Standards Online can be found at <http://www.bsi-global.com/bsonline>.

Further information about BSI is available on the BSI website at <http://www.bsi-global.com>.

Copyright

Copyright subsists in all BSI publications. BSI also holds the copyright, in the UK, of the publications of the international standardization bodies. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means – electronic, photocopying, recording or otherwise – without prior written permission from BSI.

This does not preclude the free use, in the course of implementing the standard, of necessary details such as symbols, and size, type or grade designations. If these details are to be used for any other purpose than implementation then the prior written permission of BSI must be obtained.

Details and advice can be obtained from the Copyright & Licensing Manager.
Tel: +44 (0)20 8996 7070. Fax: +44 (0)20 8996 7553.
Email: copyright@bsi-global.com.