



# SLOVENSKI STANDARD

## SIST EN ISO 10644:2001

01-julij-2001

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### Vijaki z ujeto okroglo ravno podložko trdote 200 HV in 300 HV (ISO 10644:1998)

Screw and washer assemblies with plain washers - Washer hardness classes 200 HV and 300 HV (ISO 10644:1998)

Kombi-Schrauben mit flachen Scheiben - Härteklassen der Scheiben 200 HV und 300 HV (ISO 10644:1998)

Vis a rondelle plate incorporée (Rondelles de classes de dureté 200 HV et 300 HV (ISO 10644:1998)

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Ta slovenski standard je istoveten z: **EN ISO 10644:1998**

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#### **ICS:**

21.060.10      Sorniki, vijaki, stebelni vijaki      Bolts, screws, studs  
21.060.30      Podložke, varovalni elementi      Washers, locking elements

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 10644

August 1998

ICS 21.060.10

Descriptors: see ISO document

English version

## Screw and washer assemblies with plain washers - Washer hardness classes 200 HV and 300 HV (ISO 10644:1998)

Vis à rondelle plate incorporée - Rondelles de classes de  
dureté 200 HV et 300 HV (ISO 10644:1998)

Kombi-Schrauben mit flachen Scheiben - Härteklassen der  
Scheiben 200 HV und 300 HV (ISO 10644:1998)

This European Standard was approved by CEN on 10 July 1998.

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, 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  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 10644:1998

## Foreword

The text of the International Standard ISO 10644:1998 has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Threaded and non-threaded mechanical fasteners and accessories", 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 month of February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

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.

## Endorsement notice

The text of the International Standard ISO 10644:1998 has been approved by CEN as a European Standard without any modification.

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NOTE: Normative references to International Standards are listed in annex ZA (normative).

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**Annex ZA (normative)**  
**Normative references to international publications**  
**with their relevant European publications**

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.

| <u>Publication</u> | <u>Year</u> | <u>Title</u>   | <u>EN</u>    | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| ISO 1207           | 1992        | Slotted cheese head screws - Product grade A   | EN ISO 1207  | 1994        |
| ISO 1580           | 1992        | Slotted pan head screws - Product grade A  | EN ISO 1580  | 1994        |
| ISO 4762           | 1997        | Hexagon socket head cap screws   | EN ISO 4762  | 1997        |
| ISO 7045           | 1994        | Pan head screws with type H or type Z cross recess - Product grade A                             | EN ISO 7045  | 1994        |
| ISO 10673          | 1998        | Plain washers for screw and washer assemblies - Small, normal and large series - Product grade A | EN ISO 10673 | 1998        |

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INTERNATIONAL  
STANDARD

ISO  
10644

First edition  
1998-08-01

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**Screw and washer assemblies with plain  
washers — Washer hardness classes  
200 HV and 300 HV**

*Vis à rondelle plate incorporée — Rondelles de classes de dureté 200 HV  
et 300 HV*

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Reference number  
ISO 10644:1998(E)

**ISO 10644:1998(E)****Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10644 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Annex A of this International Standard is for information only.

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# Screw and washer assemblies with plain washers — Washer hardness classes 200 HV and 300 HV

## 1 Scope

This International Standard specifies the requirements for metric screw and plain washer assemblies with coarse thread M2 to M12 inclusive, flat seating heads, property classes up to and including 10.9 and washer hardness classes 200 HV and 300 HV.

The plain washers are captive, i. e. prevented from disassembly and free to rotate.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 898-1:1998, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs.*

ISO 1207:1992, *Slotted cheese head screws — Product grade A.*

ISO 1580:1994, *Slotted pan head screws — Product grade A.*

ISO 4014:—<sup>1)</sup>, *Hexagon head bolts — Product grades A and B.*

ISO 4017:—<sup>2)</sup>, *Hexagon head screws — Product grades A and B.*

ISO 4042:—<sup>3)</sup>, *Fasteners — Electroplated coatings.*

ISO 4762:1997, *Hexagon socket head cap screws.*

ISO 7045:1994, *Pan head screws with type H or type Z cross recess — Product grade A.*

ISO 10673:1998, *Plain washers for screw and washer assemblies — Small, normal and large series — Product grade A.*

1) To be published. (Revision of ISO 4014:1988)

2) To be published. (Revision of ISO 4017:1988)

3) To be published. (Revision of ISO 4042:1989)