

**Tolerances for fasteners - Part 3: Plain
washers for bolts, screws and nuts -
Product grades A and C**

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bolts, screws and nuts - Product grades A and C

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 4759-3:2000 sisaldab Euroopa standardi EN ISO 4759-3:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 13.10.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 4759-3:2000 consists of the English text of the European standard EN ISO 4759-3:2000.</p> <p>This document is endorsed on 13.10.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This part of EN ISO 4759 establishes a selection of tolerances for use in the preparation of ISO product standard for punched plain washers, product grades A and C, for bolts, screws and nuts with nominal thread diameters from 1 mm up to and including 150 mm.</p>	<p>Scope:</p> <p>This part of EN ISO 4759 establishes a selection of tolerances for use in the preparation of ISO product standard for punched plain washers, product grades A and C, for bolts, screws and nuts with nominal thread diameters from 1 mm up to and including 150 mm.</p>
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ICS 21.060.30

Võtmesõnad:

English version

Tolerances for fasteners

**Part 3: Plain washers for bolts, screws and nuts – Product grades A and C
(ISO 4759-3 : 2000)**

Tolérances pour éléments de fixation – Partie 3: Rondelles plates pour vis et écrous – Grades A et C
(ISO 4759-3 : 2000)

Toleranzen für Verbindungselemente – Teil 3: Flache Scheiben für Schrauben und Muttern – Produktklassen A und C
(ISO 4759-3 : 2000)

This European Standard was approved by CEN on 2000-05-01.

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

Foreword

International Standard

ISO 4759-3 : 2000 Tolerances for fasteners – Part 3: Plain washers for bolts, screws and nuts – Product grades A and C,

which was prepared by ISO/TC 2 'Fasteners' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 185 'Threaded and non-threaded mechanical fasteners and accessories', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by November 2000 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 4759-3 : 2000 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

1 Scope

This part of ISO 4759 establishes a selection of tolerances for use in the preparation of ISO product standards for punched plain washers of product grades A and C, for use with bolts, screws and nuts of nominal thread diameters of from 1 mm to 150 mm inclusive.

It is recommended that these tolerances also be used for non-standard washers.

NOTE The product grade refers to the quality of the product and to the size of the tolerances.

Annex A (informative) presents tolerances taken from ISO 286-1 and ISO 286-2.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 4759. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 4759 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1101—¹⁾, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out.*

ISO 2692:1988, *Technical drawings — Geometrical tolerancing — Maximum material principle.*

ISO 4042:1999, *Fasteners — Electroplated coatings.*

3 Tolerances

The tolerances for plain washers of product grades A and C are given in Table 1.

Unless otherwise specified, the tolerances specified in this part of ISO 4759 apply to washers prior to coating; see also ISO 4042.

1) To be published. (Revision of ISO 1101:1983)