



SLOVENSKI STANDARD
SIST ISO 7094:1996

01-april-1996

Okrogle ravne podložke - Izredno velika vrsta - Razred izdelave C

Plain washers -- Extra large series -- Product grade C

Rondelles plates -- Série très large -- Grade C

Ta slovenski standard je istoveten z: ISO 7094:1983

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ICS:

21.060.30 Podložke, varovalni elementi Washers, locking elements

SIST ISO 7094:1996

en

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International Standard 7094

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Plain washers — Extra large series — Product grade C

Rondelles plates — Série très large — Grade C

First edition — 1983-08-01

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UDC 621.882.4

Ref. No. ISO 7094-1983 (E)

Descriptors : washers, plain washers, dimensions, designation, specifications.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7094 was developed by Technical Committee ISO/TC 2, *Fasteners*, and was circulated to the member bodies in December 1981.

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It has been approved by the member bodies of the following countries:

| | | |
|---------------------|------------------------|-----------------------|
| Australia | Hungary | Norway |
| Austria | India | Poland |
| Belgium | Ireland | Romania |
| China | Italy | South Africa, Rep. of |
| Czechoslovakia | Japan | Spain |
| Denmark | Korea, Dem. P. Rep. of | Sri Lanka |
| Egypt, Arab Rep. of | Korea, Rep. of | Sweden |
| Finland | Mexico | Switzerland |
| France | Netherlands | United Kingdom |
| Germany, F.R. | New Zealand | USSR |

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Canada
USA

Plain washers — Extra large series — Product grade C

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1 Scope and field of application

SIST ISO 7094:1996

This International Standard lays down the specification for plain washers of product grade C with large outside diameter, preferable for bolts, screws and nuts in wood constructions, with thread sizes from M 5 to M 36 inclusive.

2 References

ISO 887, *Plain washers for metric bolts, screws and nuts — General plan.*

ISO 1456, *Metallic coatings — Electroplated coatings of nickel plus chromium.*

ISO 1457, *Metallic coatings — Electroplated coatings of copper plus nickel plus chromium on iron or steel.*

ISO 1458, *Metallic coatings — Electroplated coatings of nickel.*

ISO 1461, *Metallic coatings — Hot dip galvanized coatings on fabricated ferrous products — Requirements.*

ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel.¹⁾*

ISO 3269, *Fasteners — Acceptance inspection.²⁾*

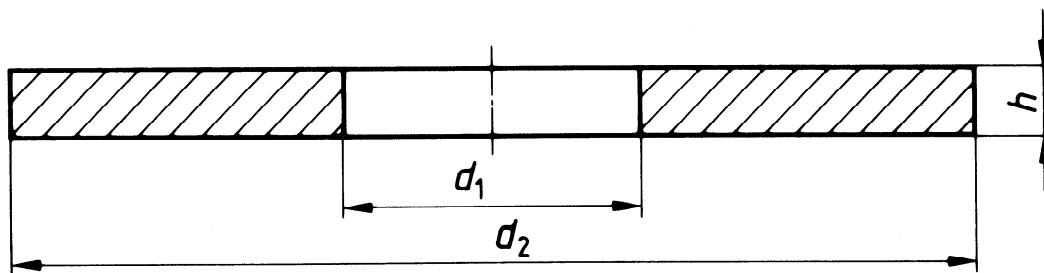
ISO 4759/3, *Tolerances for fasteners — Part 3: Washers for metric bolts, screws and nuts with thread diameters from 1 up to and including 150 mm — Product grades A and C.*

1) At present at the stage of draft. (Revision of ISO 2081-1973.)

2) At present at the stage of draft.

ISO 7094-1983 (E)

3 Dimensions



Dimensions in millimetres

| Nominal size (Thread size, d) | Clearance hole d_1 | | Outside diameter d_2 | | Thickness h | | |
|-------------------------------------|-------------------------|-------|---------------------------|-------|------------------|------|------|
| | nom. (min.) | max. | nom. (max.) | min. | nom. | max. | min. |
| 5 | 5,5 | 5,8 | 18 | 16,9 | 2 | 2,3 | 1,7 |
| 6 | 6,6 | 6,96 | 22 | 20,7 | 2 | 2,3 | 1,7 |
| 8 | 9 | 9,36 | 28 | 26,7 | 3 | 3,6 | 2,4 |
| 10 | 11 | 11,43 | 34 | 32,4 | 3 | 3,6 | 2,4 |
| 12 | 13,5 | 13,93 | 44 | 42,4 | 4 | 4,6 | 3,4 |
| 14 | 15,5 | 15,93 | 50 | 48,4 | 4 | 4,6 | 3,4 |
| 16 | 17,5 | 18,2 | 56 | 54,1 | 5 | 6 | 4 |
| 20 | 22 | 22,84 | 72 | 70,1 | 6 | 7 | 5 |
| 24 | 26 | 26,84 | 85 | 82,8 | 6 | 7 | 5 |
| 30 | 33 | 34 | 105 | 102,8 | 6 | 7 | 5 |
| 36 | 39 | 40 | 125 | 122,5 | 8 | 9,2 | 6,8 |

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4 Specifications and reference International Standards

| | | |
|------------------------------|------------------------|--|
| Material | | Steel |
| Mechanical properties | Class | 100 HV |
| | International Standard | 1) |
| | Hardness HV | 100 min. |
| Tolerances | Product grade | C |
| | International Standard | ISO 4759/3 |
| Surface finish | | Plain Requirements for electroplating are given in ISO 1456, ISO 1457, ISO 1458 and ISO 2081. If different electroplating requirements are needed for other finishes, they should be negotiated between customer and supplier. For hot dip galvanizing, see ISO 1461. |
| Acceptability | | The acceptance procedure is covered in ISO 3269. |

1) Will be covered in a future International Standard.

5 Designation

Example for the designation of a plain washer, extra large series, of nominal size 8 mm and mechanical property class 100 HV:

Washer ISO 7094 - 8 - 100 HV