
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

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[ISO 7094:1983](https://standards.iteh.ai/catalog/standards/sist/51657df5-3055-412a-b50b-79c90f68fa19/iso-7094-1983)

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UDC 621.882.4

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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

ISO 7094:1983

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⁾

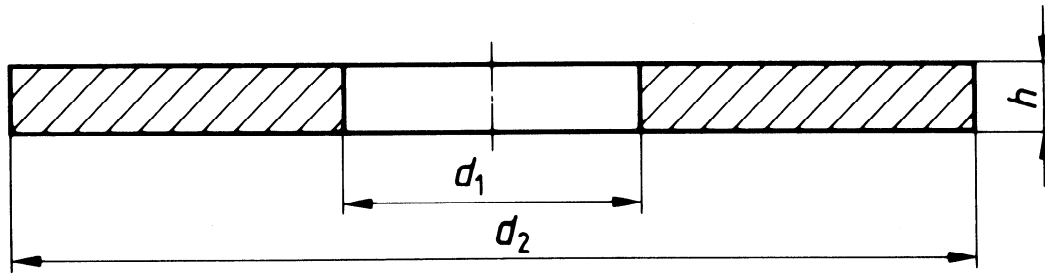
ISO 3269, *Fasteners — Acceptance inspection.*²⁾

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.

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)
Tolerances	Hardness HV	100 min.
	Product grade	C
Surface finish	International Standard	ISO 4759/3
		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