

INTERNATIONAL STANDARD

**ISO
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Second edition
2000-06-01

Plain washers — Extra large series — Product grade C

Rondelles plates — Série très large — Grade C



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 7094 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

This second edition cancels and replaces the first edition (ISO 7094:1983), which has been technically revised.

Plain washers — Extra large series — Product grade C

1 Scope

This International Standard specifies the characteristics of extra-large-series, product-grade-C plain washers in the 100 HV hardness class, of nominal sizes (nominal thread diameters) ranging from 5 mm to 36 mm inclusive.

These washers are suitable for

- hexagon bolts and screws of product grade C in property classes up to and including 6.8, and
- hexagon nuts of product grade C in property classes up to and including 6

used in timber structures.

If dimensions other than those listed in this International Standard are required, they should be selected from those given in ISO 887.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard 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 887:—¹⁾, *Plain washers for metric bolts, screws and nuts for general purposes — General plan.*

ISO 3269:2000, *Fasteners — Acceptance inspection.*

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

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

ISO 6507-1:1997, *Metallic materials — Vickers hardness test — Part 1: Test method.*

ISO 10683:—²⁾, *Fasteners — Non-electrolytically applied zinc flake coatings.*

1) To be published. (Revision of ISO 887:1983)

2) To be published.

3 Dimensions

See Figure 1 and Tables 1 and 2.

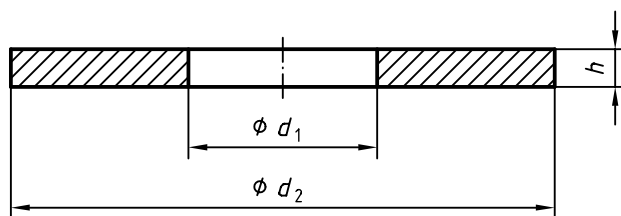


Figure 1 — Dimensions

Table 1 — Preferred dimensions

Dimensions in millimetres

Nominal size (Nominal thread diameter, d)	Clearance hole		Outside diameter		Thickness		
	d_1 nom. (min.)	max.	d_2 nom. (max.)	min.	nom.	h max.	min.
5	5,5	5,8	18,0	16,9	2	2,3	1,7
6	6,60	6,96	22,0	20,7	2	2,3	1,7
8	9,00	9,36	28,0	26,7	3	3,6	2,4
10	11,00	11,43	34,0	32,4	3	3,6	2,4
12	13,50	13,93	44,0	42,4	4	4,6	3,4
16	17,5	18,2	56,0	54,1	5	6	4
20	22,00	22,84	72,0	70,1	6	7	5
24	26,00	26,84	85,0	82,8	6	7	5
30	33	34	105,0	102,8	6	7	5
36	39	40	125,0	122,5	8	9,2	6,8

Table 2 — Non-preferred dimensions

Dimensions in millimetres

Nominal size (Nominal thread diameter, d)	Clearance hole		Outside diameter		Thickness		
	d_1 nom. (min.)	max.	d_2 nom. (max.)	min.	nom.	h max.	min.
14	15,50	15,93	50,0	48,1	4	4,6	3,4
18	20,00	20,43	60,0	58,1	5	6	4
22	24,00	24,84	80,0	78,1	6	7	4
27	30,00	30,84	98,0	95,8	6	7	5
33	36	37	115,0	112,8	8	9,2	6,8