
**Plain washers for metric bolts, screws and
nuts for general purposes — General plan**

*Rondelles plates pour vis et écrous métriques pour usages généraux —
Plan général*

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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 887 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

This second edition cancels and replaces the first edition (ISO 887:1983), which has been technically revised.

Annex A of this International Standard is for information only.

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1 Scope

This International Standard specifies the full range of the nominal dimensions of product-grade-A and -C plain washers for general-purpose bolts, screws and nuts of nominal thread diameters ranging from 1 mm to 150 mm inclusive.

This International Standard is not applicable to washers for screw and washer assemblies in relation to hole diameters and thicknesses.

Information on the use of plain washers is given in annex A.

2 Normative reference

The following normative document contains 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 edition of the normative document 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 273:1979, *Fasteners — Clearance holes for bolts and screws*.

3 Clearance holes

The clearance hole diameters d_1 for washers (see Figure 1) shall be chosen in accordance with those specified in ISO 273, as follows:

- fine series for washers of product grade A and with a nominal thickness of less than 6 mm, i.e. for nominal sizes < 39 mm;
- medium series for washers of product grade A with a nominal thickness equal to or greater than 6 mm, i.e. for nominal sizes \geq 39 mm and for washers of product grade C.

NOTE The tolerances for clearance holes given in ISO 273 for information are not applicable to plain washers of product grades A and C; see clause 6.