

INTERNATIONAL STANDARD

**ISO
2194**

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Industrial screens — Woven wire cloth, perforated plate and electroformed sheet — Designation and nominal sizes of openings

*Cribles et tamis industriels — Tissus métalliques, tôles perforées et
feuilles électroformées — Désignation et dimensions nominales des
ouvertures*



Reference number
ISO 2194:1991(E)

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.

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.

International Standard ISO 2194 was prepared by Technical Committee ISO/TC 24, *Sieves, sieving and other sizing methods*, Sub-Committee SC 3, *Industrial wire screens*.

This second edition cancels and replaces the first edition (ISO 2194:1972), of which the scope has been extended to include perforated plate and some additional sizes.

Annex A of this International Standard is for information only.

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International Organization for Standardization
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Introduction

The nominal sizes of openings specified in this International Standard are taken from the R 10, R 20 and R 40 series of preferred numbers in accordance with ISO 3 and from the R'10, R'20 and R'40 series of rounded values in accordance with ISO 497.

The sizes within each series follow a geometric progression. Therefore, each size of a series differs from the successive size by a constant percentage. Apart from the omission of a few unusual values in the range of the very small sizes, the ratios of the successive sizes are as follows.

Series ISO 3	Step	Ratio
R 10	about 25 %	1,25
R 20	about 12 %	1,12
R 40	about 6 %	1,06

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Industrial screens — Woven wire cloth, perforated plate and electroformed sheet — Designation and nominal sizes of openings

1 Scope

This International Standard specifies the designation and nominal sizes of openings for woven wire cloth, perforated plate and electroformed sheet used as screening media for industrial purposes.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 9045:1990, *Industrial screens and screening — Vocabulary*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 9045 apply.

4 Designation

4.1 General

Nominal sizes of openings of 1 mm and above shall be expressed in millimetres (mm); sizes below 1 mm shall be expressed in micrometres (μm).

4.2 Woven wire cloth

Woven wire cloth shall be designated by the nominal size of the apertures w , the type of weave, and the nominal diameter d and the material of the wire.

4.3 Perforated plate

Perforated plate shall be designated by the nominal size of the holes w (central separation of opposite sides or diameter), the shape of the holes (square, circular or any other regular geometric shape), and by the nominal thickness and the material of the plate.

It is recommended that the codification of perforations in accordance with ISO 7806 be used.

4.4 Electroformed sheet

Electroformed sheet shall be designated by the nominal size of the apertures w , the shape of the apertures (square or circular) and the denomination "electroformed".

5 Nominal sizes of openings

Three series of nominal sizes of openings are specified (see tables 1 and 2).

The R 10 (R'10) sizes shall be chosen by preference; otherwise the R 20 (R'20) sizes and, if necessary, the R 40 (R'40) sizes may be chosen.

NOTE 1 Attention is drawn to the fact that any two consecutive sizes of the R 40 series may overlap when the tolerances for industrial woven wire cloth apertures given in ISO 9044 are taken into account.