

Specification for

Architects', engineers' and surveyors' metric scale rules

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Office and Information Standards Committee (OIS/-) to Technical Committee OIS/28, upon which the following bodies were represented:

- County Surveyors' Society
- Department of the Environment Property Services Agency
- Drawing Office Material Manufacturers' and Dealers' Association
- Electricity Supply Industry in England and Wales
- Engineering Equipment and Materials Users' Association
- Post Office
- Writing Instruments Association

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Foreword

This British Standard has been prepared under the direction of the Office and Information Standards Committee. It is a revision of BS 1347-3:1969 which is withdrawn. As Parts 1 and 2 of BS 1347 have also been withdrawn this standard is now numbered as BS 1347.

The main changes from the previous edition are that scale rules of nominal length 500 mm and flat section scale rules BS 1347 no. 30, BS 1347 no. 31 and BS 1347 no. 32 are no longer included. Definitions have been amended to reflect current practice. Dimensions for flat scale rules for use with drafting machines have been given separately and recommended properties of materials used for the manufacture of scale rules, not covered by this standard, have been given in Appendix A.

The scales specified in this standard are designed to be read in one direction only, i.e. from left to right.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This British Standard specifies the designation, shape and dimensions, scales and colour coding for scale rules for use with SI (metric) units. Offset scales are not covered by this standard.

NOTE 1 The recommended properties of materials used for the manufacture of metric scale rules are given in Appendix A.

NOTE 2 The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this British Standard the following definitions apply.

2.1

scale

the figured divisions on the edge of a scale rule

2.2

representative fraction

the degree of reduction, expressed as a ratio (e.g. 1 : 1, 1 : 200)

2.3

single scale

a scale graduated along the edge of a scale rule, where one scale only is so graduated

2.4

combined scale

two compatible scales graduated along the same edge of a scale rule

2.5

division

the sequence of graduation lines along the edge of a scale rule

2.6

gauge line

a line marked on the body of a scale rule, parallel with the edge and separating two scales graduated along that edge

2.7

fully divided (of a scale)

subdivided along its whole length

2.8

open divided (of a scale)

subdivided only in its first main unit

3 Designation

3.1 Scale rules

3.1.1 Rules of oval section and of flat section shall be designated as given respectively in Table 1 and Table 2 (e.g. “no. 1”). Rules of triangular section shall be designated “BS 1347 metric”.

Table 1 — Scale rules of oval section

Scale rule designation	Representative fraction	Subdivision	Figuring	Dividing
no. 1	1 : 1 1 : 2 1 : 5 1 : 10	1 mm 2 mm 10 mm 10 mm	0, 10 mm, 20, 30 ... 0, 20 mm, 40, 60 ... 0, 100 mm, 200, 300 ... 0, 200 mm, 400, 600 ...	All scales fully divided
no. 2	{ 1 : 5 1 : 50 1 : 10 1 : 100 1 : 20 1 : 200 1 : 500 1 : 1 000	10 mm 100 mm 10 mm 100 mm 20 mm 200 mm 0.5 m 1 m	0, 100 mm, 200, 300 ... 0, 1 m, 2, 3 ... 0, 100 mm, 200, 300 ... 0, 1 m, 2, 3 ... 0, 200 mm, 400, 600 ... 0, 2 m, 4, 6 ... 0, 5 m, 10, 15 ... 0, 10 m, 20, 30 ...	All scales fully divided
no. 3	{ 1 : 1 1 : 100 1 : 20 1 : 200 1 : 5 1 : 50 1 : 1 250 1 : 2 500	1 mm 100 mm 20 mm 200 mm 10 mm 100 mm 1 m 2 m	0, 10 mm, 20, 30 ... 0, 1 m, 2, 3 ... 0, 200 mm, 400, 600 ... 0, 2 m, 4, 6 ... 0, 100 mm, 200, 300 ... 0, 1 m, 2, 3 ... 0, 10 m, 20, 30 ... 0, 20 m, 40, 60 ...	All scales fully divided
no. 4	{ 1 : 1 250 1 : 2 500 1 : 10 000	1 m 2 m 10 m	0, 10 m, 20, 30 ... 0, 20 m, 40, 60 ... 0, 200 m, 400, 600 ...	All scales fully divided

NOTE Scales shown bracketed together form a combined scale.