

Specification for

35 mm microcopying of maps and plans

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Association of Photographic Laboratories	Illuminating Engineering Society
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British Kinematograph, Sound and Television Society	Institute of Reprographic Technology*
British Photographic Manufacturers' Association*	Lighting Industry Federation
British Power Press Manufacturers' Association	Ministry of Defence*
British Printing Industries Federation	Photographic Dealers' Association
Drawing Office Material Manufacturers' and Dealers' Association*	Post Office*
	Royal Photographic Society
	Scientific Instrument Manufacturers' Association

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

Association of Medical Records Officers	Industrial Council for Educational Training and Technology
Association of Photographic Technicians	Library Association
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British Airways (Overseas Division)	Microfilm Association of Great Britain
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Electricity Supply Industry in England and Wales	Royal Institution of Chartered Surveyors
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Greater London Council	

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Foreword

This British Standard applies only to 35 mm black-and-white silver microfilm. It sets out special requirements for preparing maps and plans which are likely to be microfilmed and specifies the procedure for microfilming them, whether or not they have been specially prepared.

Microfilming maps and plans which have not been specially prepared may present difficulties if the quality of the original is poor, if it uses colours which do not reproduce well or if its size and shape do not fit the recommended reduction ratios. This standard can give only general guidance on ways of overcoming these difficulties, which are too diverse to be dealt with in detail. Some people have already found ways of overcoming the particular difficulties they encounter; others may have to carry out experiments to find the best solution of a particular problem.

Anyone concerned in the preparation of new maps will be well advised to see that they comply with the requirements of this standard so that they will be suitable for microfilming if this should become necessary.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, 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 requirements for the preparation and microcopying in black-and-white of topographical maps and plans, either for the production of prints or for viewing. Dimensioned drawings, which are the subject of BS 4210, are excluded.

This standard also specifies procedures for maintaining and checking the reproducibility of microfilm images and the qualities of negatives made on 35 mm silver microfilm from published maps or from originals prepared in accordance with the requirements of this standard. Background density, resolution and procedures for assessment are also specified.

2 References

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

3 Definitions

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

3.1 background

the area of the film corresponding to that part of the original on which no subject matter appears

3.2 base-plus-fog density

the density of an unexposed but fully processed area of the film

3.3 border

the area of a map which lies between the neat line and the outermost line of the surrounding frame

NOTE See Figure 1.

3.4 bow

departure from physical flatness across the width of the film

3.5 curl

departure from physical flatness along the length of the film

3.6 density

diffuse density as defined in BS 1384. It always includes base-plus-fog density

3.7 frame

that area of the film which is exposed by the camera

3.8 generation

a measure of the remoteness of the copy from the original document. The film taken of the original is termed "first generation" microfilm (camera microfilm). Copies made from this "first generation" are termed "second generation" and copies from the "second generation" are termed "third generation", etc.

3.9 image

that area within the frame which after exposure and processing contains the representation of the original

3.10 map

a drawing providing a symbolized representation of selected features of the surface of the earth or of a celestial body

3.11 margin

the area of a map which lies outside the border and which frequently contains legends and other marginal information

NOTE See Figure 1.

3.12 neat line

a line, usually grid or graticule, which encloses the detail of a map

NOTE See Figure 1.

3.13 negative-reading

of microfilm which has clear images on an opaque background

3.14 original

the drawing or document to be microfilmed

3.15 outer margin

the area of a map sheet which lies outside the margin, i.e. the area of blank paper round the edge of the map

NOTE See Figure 1.