

Safety colours and safety signs — Classification, performance and durability of safety signs

ICS 01.080.10; 01.080.20

National foreword

This British Standard reproduces verbatim ISO 17398:2004 and implements it as the UK national standard.

The UK participation in its preparation was entrusted by Technical Committee PH/8, Graphical symbols and signs, to Subcommittee PH/8/1, Safety signs (including fire safety signs), which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 21 and a back cover.

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Safety colours and safety signs — Classification, performance and durability of safety signs

*Couleurs de sécurité et signaux de sécurité — Classification,
performance et durabilité des signaux de sécurité*



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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 17398 was prepared by Technical Committee ISO/TC 145, *Graphical symbols*, Subcommittee SC 2, *Safety identification, signs, shapes, symbols and colours*.

Introduction

This International Standard has been prepared to provide manufacturers/suppliers and purchasers with the means for agreeing and specifying performance parameters for safety signs. The performance parameters agreed for each safety sign shall be maintained throughout that product's expected service life.

This International Standard requires manufacturers/suppliers to classify products and provide comprehensive product descriptions. Both manufacturer/supplier and purchaser have the possibility to specify product requirements in terms of performance levels, and where appropriate, the expected service environment.

Consistent use of this International Standard will assist in improving knowledge of the requirements set out below and further understanding of the performance of various types of safety signs in everyday use.

Safety colours and safety signs — Classification, performance and durability of safety signs

1 Scope

This International Standard specifies requirements for a performance-related classification system for safety signs according to expected service environment, principal materials, photometric properties, means of illumination, fixing methods and surface. Performance criteria and test methods are specified in this International Standard so that properties related to durability and expected service life can be characterized and specified at the time of the product's delivery to the purchaser.

This International Standard does not cover electrical power supplies, their components or electrically powered elements. It also does not cover properties of illuminating components, but the photometric properties for the particular types of safety signs are covered.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 105-X12, *Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing*

ISO 291, *Plastics — Standard atmospheres for conditioning and testing*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 2409, *Paints and varnishes — Cross-cut test*

ISO 2813, *Paints and varnishes — Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°*

ISO 3864-1, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs in workplaces and public areas*

ISO 4046-4:2002, *Paper, board, pulps and related terms — Vocabulary — Part 4: Paper and board grades and converted products*

ISO 4589-2:1996, *Plastics — Determination of burning behaviour by oxygen index — Part 2: Ambient-temperature test*

ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc sources*

ISO 4892-4, *Plastics — Methods of exposure to laboratory light sources — Part 4: Open-flame carbon-arc lamps*

ISO 7784-3, *Paints and varnishes — Determination of resistance to abrasion — Part 3: Reciprocating test panel method*