

Basic principles for graphical symbols for use on equipment —

Part 1: Creation of symbol originals

The European Standard EN 80416-1:2001 has the status of a
British Standard

ICS 01.080.20

National foreword

This British Standard is the official English language version of EN 80416-1:2001. It is identical with IEC 80416-1:2001. It supersedes BS 7477:1991 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/3, Documentation and graphical symbols, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible 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.

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Cross-references

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

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This British Standard, having been prepared under the direction of the Electrotechnical Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 11 January 2002

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English version

Basic principles for graphical symbols for use on equipment
Part 1: Creation of symbol originals
(IEC 80416-1:2001)

Principes de base pour les symboles
graphiques utilisables sur le matériel
Partie 1: Création des dessins originaux
de symboles
(CEI 80416-1:2001)

Allgemeine Grundlagen für Graphische
Symbole auf Einrichtungen
Teil 1: Gestaltung Graphischer Symbole
(IEC 80416-1:2001)

This European Standard was approved by CENELEC on 2001-07-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 3C/600/FDIS, future edition 1 of IEC 80416-1, prepared by SC 3C, Graphical symbols for use on equipment, of IEC TC 3, Documentation and graphical symbols, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 80416-1 on 2001-07-03.

This European Standard supersedes HD 571 S1:1990.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2002-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2004-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 80416-1:2001 was approved by CENELEC as a European Standard without any modification.

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Introduction

A graphical symbol is a visually perceptible figure used to transmit information independently of language. Graphical symbols are used on equipment for a wide range of purposes. For such symbols, consistency in the design of families of symbols used in one location or on similar equipment is an important issue, as is legibility when these symbols are reduced to small dimensions. Thus, there is a need to standardize the principles for creating graphical symbols for use on equipment to ensure visual clarity, to maintain consistency and thereby to improve recognition.

This multi-part standard addresses the basic rules used to create graphical symbols for use on equipment, including line widths, form and use of arrows, negation elements, and use of the basic pattern which serves as a guideline for drawing equipment symbols. These design principles are required to be used for all graphical symbols for use on equipment: the standardized graphical symbols of which are found in ISO 7000 and IEC 60417.