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**Malaysian Standard  
MS 5.8 : 1974**

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**SPECIFICATION FOR  
SYMBOL FOR  
IONIZING  
RADIATION**



**STANDARDS INSTITUTION OF MALAYSIA**  
Established by Act of Parliament

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This Malaysian Standard, which had been approved by the Electronic Engineering Industry Standards Committee and endorsed by the Standards Council, was published under the authority of the Standards Council in December, 1973.

SIM wishes to draw attention to the fact that this Malaysian Standard does not purport to include all the necessary provisions of a contract.

The Malaysian Standards are subject to periodical review to keep abreast of progress in the industries concerned. Suggestions for improvements will be recorded and in due course brought to the notice of the Committee charged with the revision of the Standards to which they refer.

The following SIM references relate to the work on this Standard:

Committee Reference : SIM/TC2 (ISC5)/001

Draft for Comment : D9 (ISC5)

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### Committee Representation

The Electronic Engineering Industry Standards Committee under whose supervision this Malaysian Standard was prepared, comprises representatives from the following Government ministries, trade, commerce and manufacturer associations and scientific and professional bodies.

Federation of Malaysian Manufacturers  
Institution of Engineers (Malaysia)  
Malaysian Scientific Association  
Ministry of Communications  
    (Civil Aviation Department)  
    (Telecommunications Department)  
Ministry of Defence  
Ministry of Education (Technical College)  
Ministry of Information (Broadcasting Department)  
Ministry of Trade and Industry (FIDA)  
National Chambers of Commerce of Malaysia  
Universiti Sains Malaysia  
University of Malaya

The Technical Committee on Safety Requirements for Electronic Equipment which prepared this Malaysian Standard consists of representatives from the following member organizations:

Association of Consulting Engineers (Malaysia)  
Consumers' Association  
Federation of Malaysian Manufacturers  
Institution of Engineers (Malaysia)  
Malaysian Scientific Association  
Ministry of Communications  
    (Civil Aviation Department)  
    (Telecommunications Department)  
Ministry of Defence  
Ministry of Education  
Ministry of Health  
Ministry of Information (Broadcasting Department)  
Ministry of National and Rural Development  
Ministry of Trade and Industry (FIDA)  
National Chambers of Commerce of Malaysia  
National Electricity Board  
Television, Radio and Electrical Traders' Association  
The Chinese Electrical Engineering Association, Federation of Malaya  
The Electrical Inspectorate  
Universiti Sains Malaysia  
University of Malaya

## FOREWORD

This Malaysian Standard was prepared by the Technical Committee on Safety Requirements for Electronic Equipment under the authority of the Electronic Engineering Industry Standards Committee.

With the increasing use of ionizing radiation in applications as, for example, medical and industrial radiography, and the generation of such radiation in the course of nuclear research, in nuclear power stations, and by radioactive substances, the need was shown for a distinctive symbol to indicate the actual or potential presence of ionizing radiation.

This Standard Specification is based on BS 3510 : 1968. The basic ionizing radiation symbol in Figure 1 conforms to that of the ISO Recommendation R 361, "Basic Ionizing Radiation Symbol".

## SPECIFICATION

### 1. SCOPE

- 1.1 This Malaysian Standard Specification specifies a symbol recommended for use only to signify the actual or potential presence of ionizing radiation and to identify objects, devices, materials or combinations of materials which emit such radiation. For the purpose of this Standard, ionizing radiation means X – and gamma rays, alpha and beta particles; but not sound or radio wave, or visible, infra-red, or ultra-violet light.

This Standard Specification does not specify the radiation levels at which the symbols are to be used.

### 2. SHAPE AND PROPORTIONS OF SYMBOL

- 2.1 The basic symbol for signifying radiation or radioactive materials shall be of the design illustrated in Figure 1.

### 3. COLOURS OF SYMBOL AND BACKGROUND

- 3.1 The area shown shaded in the figure shall be coloured black, and shall be placed upon a background of sufficient area for the symbol to be distinctive. The background should be yellow, of a colour approximating to No. 309 of BS 381C\* or reference 0-001 of BS 2660† except where for particular purposes, eg transport, a white back-ground is required.

\* BS 381C, "Colours for Specific Purposes".

† BS 2660, "Colours for Building and Decorative Paints".

4. APPLICATION OF SYMBOL

- 4.1 The basic symbol shall be as prominent as is practical and of a size consistent with that of the equipment or material to which it is affixed or attached, providing that the proportions shown in the figure are maintained, and that in any case the symbol can be recognized from a safe distance.

5. RESTRICTIONS ON USE OF SYMBOL

- 5.1 The basic ionizing radiation symbol shall be used or displayed only to signify the actual or potential presence of ionizing radiation as set out in Clause 1 of this Malaysian Standard Specification.
- 5.2 Appropriate wording, or other symbols, may be used in association with the basic symbol to indicate the source or type of radiation, the limits of occupancy and similar precautionary information, but shall not detract from the clarity of the basic symbol. Any wording used shall be kept to the minimum necessary. No lettering shall be superimposed on the symbol.

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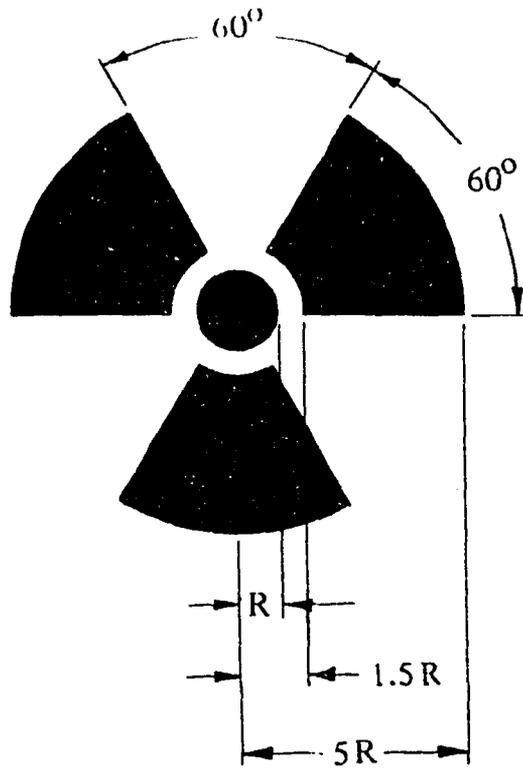


FIGURE 1 BASIC IONIZING RADIATION SYMBOL