



NEGARA BRUNEI DARUSSALAM

**BRUNEI DARUSSALAM STANDARD  
PIAWAI BRUNEI DARUSSALAM**

**PBD IEC 60364-7-710:2002**

**IEC 60364-7-710:2002**

**Edition 1.0**

**ELECTRICAL INSTALLATIONS OF BUILDINGS -  
PART 7-710: REQUIREMENTS FOR SPECIAL INSTALLATIONS  
OR LOCATIONS - MEDICAL LOCATIONS**

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**ENERGY DIVISION, PRIME MINISTER'S OFFICE  
IN COLLABORATION WITH MINISTRY OF DEVELOPMENT  
NEGARA BRUNEI DARUSSALAM**

## **FOREWORD**

This Brunei Darussalam Electrical Standard was prepared by the Technical Committee on Electrical Standards (TECO), Energy Division at Prime Minister's Office in collaboration with the Authority for Building and Construction Industry (ABCI), Ministry of Development, Brunei Darussalam with the objective of developing the National Electrical Standards for electrical products, systems, equipments and facilities for the local industry and consumers with reference to international standards, guidelines and procedures. In developing the national electrical standards, the aim is to promote quality, technical integrity, health, safety and environmental standards for the local industries and consumers.

This Brunei Darussalam Electrical Standard is an adoption of the International Electro Technical Commission IEC 60364-7-710: 2002 (Edition 1.0) standard and implements it as the Brunei Darussalam National Standard.

Attention is drawn to the fact that this Brunei Darussalam Electrical Standard does not confer any immunity from legal obligations in any contract for compliance to the Standard.

The National Electrical Standards are subject to periodical review according to the current needs of the local industries and consumers to keep abreast of progress in the industries and consumers concerned. Suggestions of amendments will be recorded and in due course brought to the notice of the committees concerned.

## **COMMITTEE MEMBERS**

The Technical Committee on Electrical Standards (TECO) was tasked by the Energy Division at the Prime Minister's Office in collaboration with the Authority for Building and Construction Industry (ABCI), Ministry of Development, Brunei Darussalam for the preparation of this Brunei Darussalam Electrical Standard. The members of the Technical Committee are as follows:

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| 16. Awang Aristoteles Momin                       | Brunei LNG Sdn Bhd  |
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## **SUB-COMMITTEE NO. 5 MEMBERS**

The Sub-Committee No. 5 (SC5) is the working groups for the Electrical Wiring Code of Practice who assisted in the preparation for the adoption of the Brunei Darussalam Electrical Standard. The members of the Sub-Committee No. 5 are :

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**Electrical installations of buildings –**

**Part 7-710:  
Requirements for special installations  
or locations – Medical locations**



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**Negara Brunei Darussalam as a national standard under the IEC Affiliate Country Programme**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ELECTRICAL INSTALLATIONS OF BUILDINGS –

Part 7-710: Requirements for special installations  
or locations – Medical locations

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60364-7-710 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

The text of this standard is based on the following documents:

FDIS	Report on voting
64/1268/FDIS	64/1275/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

## INTRODUCTION

The requirements of this part of IEC 60364 supplement, modify or replace certain of the general requirements as contained in parts 1 to 6 of IEC 60364.

The clause numbering following 710 are those of the corresponding parts or clauses from parts 1 to 6 of IEC 60364.

The absence of reference to a part or a clause means that parts 1 to 6 of IEC 60364 are applicable.

In medical locations it is necessary to ensure the safety of patients likely to be subjected to the application of medical electrical equipment. For every activity and function in a medical location, the particular requirements for safety have to be considered. Safety can be achieved by ensuring the safety of the installation and the safe operation and maintenance of medical electrical equipment connected to it. The use of medical electrical equipment on patients undergoing intensive care (of critical importance) has called for enhanced reliability and safety of electrical installations in hospitals so as to improve the safety and continuity of supplies which is met by application of this standard. Variations of the standard to further enhance safety and reliability are acceptable.

## ELECTRICAL INSTALLATIONS OF BUILDINGS –

### Part 7-710: Requirements for special installations or locations – Medical locations

#### 710 Medical locations

##### 710.1 Scope

The particular requirements of this part of IEC 60364 apply to electrical installations in medical locations so as to ensure safety of patients and medical staff. These requirements, in the main, refer to hospitals, private clinics, medical and dental practices, health care centres and dedicated medical rooms in the work place.

NOTE 1 It may be necessary to modify the existing electrical installation, in accordance with this standard, when a change of utilization of the location occurs. Special care should be taken where intracardiac procedures are performed in existing installations.

NOTE 2 Where applicable this standard can also be used in veterinary clinics. The requirements of this part do not apply to medical electrical equipment.

NOTE 3 For medical electrical equipment, refer to the IEC 60601 series.

##### 710.2 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.

IEC 60364-4-41:2001, *Electrical installations of buildings – Part 4-41: Protection for safety – Protection against electric shock*

IEC 60364-5-55:2001, *Electrical installations of buildings – Part 5-55: Selection and erection of electrical equipment – Other equipment*

IEC 60364-6-61:2001, *Electrical installations of buildings – Part 6-61: Verification – Initial verification*

IEC 60601-1:1988, *Medical electrical equipment – Part 1: General requirements for safety*  
Amendment 2 (1995)

IEC 60601-1-1:2000, *Medical electrical equipment – Part 1: General requirements for safety – Collateral standard: Safety requirements for medical electrical systems*

IEC 60617-1:1985, *Graphical symbols for diagrams – Part 1: General information, general index – Cross-reference tables*

IEC 60617-11(DB)<sup>1</sup>, *Graphical symbols for diagrams – Part 11: Architectural and topographical installation plans and diagrams*

IEC 61082-1:1991, *Preparation of documents used in electrotechnology – Part 1: General requirements*

<sup>1</sup> DB = Data Base.