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Compulsory Specification for

## **ELECTRICAL AND ELECTRONIC APPARATUS**

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GOVERNMENT GAZETTE, 6 FEBRUARY 2009

No. R. 89

6 February 2009

**NATIONAL REGULATOR FOR COMPULSORY SPECIFICATIONS ACT  
(Act 5 of 2008)**

**AMENDMENT TO THE COMPULSORY SPECIFICATION FOR  
ELECTRICAL AND ELECTRONIC APPARATUS**

I, Mandisi Mphahwa, Minister of Trade and Industry, hereby under Section 13 (1) (a) of the National Regulator for Compulsory Specifications Act (Act 5 of 2008), withdraw the current Compulsory Specification for *Electrical and Electronic Apparatus*, and replace it with the Compulsory Specification as set out in the attached schedule, with effect from the date two (2) months from publication of this notice.



M Mphahwa  
Minister of Trade and Industry

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**SCHEDULE**

**COMPULSORY SPECIFICATION FOR ELECTRICAL AND ELECTRONIC  
APPARATUS**

**1 SCOPE**

1.1 This specification covers safety and energy saving requirements for the specified types of mains-powered electrical and electronic apparatus listed below, rated at voltages not exceeding 500 V a.c. or d.c. and intended for use by ordinary persons in household, light industrial and general office applications. Such apparatus is generally available through normal retail distribution channels.

1.2 This specification covers the following types of electrical and electronic apparatus:

- a) household and similar appliances that may incorporate motors or heating elements, and including appliances intended to be used by ordinary persons in shops, light industry and on farms;
- b) electronic apparatus used for the reception, generation, recording or reproduction of audio, video and associated signals, and apparatus designed to be used exclusively in combination with such apparatus;
- c) information technology equipment, including electrical business and associated equipment;
- d) luminaires for use with electric light sources such as incandescent lamps, fluorescent lamps and other discharge lamps, excluding
  - 1) luminaires for road and street lighting,
  - 2) luminaires for stage lighting and for television, film and photographic studios,
  - 3) industrial bulkhead, floodlight, low-bay and high-bay luminaires, intended for use with high-intensity discharge lamps of 70 W or higher,
  - 4) aircraft lighting;
  - 5) public transport lighting.
- e) hand-held motor-operated or magnetically driven electric tools;

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- f) transportable electric motor-operated or magnetically driven tools;
- g) electrical equipment intended for application as test and measuring equipment, control equipment, educational equipment and laboratory equipment, including incorporated computing devices, excluding equipment designed for industrial process control.

1.3 This specification is not applicable to

- a) apparatus sold for use in hazardous applications and environments by instructed or skilled persons;
- b) apparatus designed and sold exclusively for industrial purposes;
- c) apparatus designed for use in locations where special conditions prevail such as explosive atmospheres;
- d) separate motors that are intended as components for other apparatus; and
- e) appliances used for high-frequency heating other than microwave ovens.

## 2 DEFINITIONS

For the purpose of this compulsory specification, the following definitions apply:

### 2.1 Applicant:

a manufacturer or importer that seeks approval of lamp controlgear and is an established legal entity within the Republic of South Africa.

### 2.2 Conformity of production:

proof that Electrical and Electronic Apparatus offered for sale has been manufactured in accordance with the approved design and conforms to the requirements of this compulsory specification.

### 2.3 Proof of conformity:

documented evidence of conformity with the requirements of this compulsory specification.

### 2.4 Conformity of production:

proof that electrical and electronic apparatus offered for sale has been manufactured to the approved design and continues to comply with the requirements of this compulsory specification.

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**2.5 Minister:**

the Minister of Trade and Industry.

**2.6 Proof of conformity:**

documented evidence of conformity with the requirements of this compulsory specification.

**2.7 Regulator:**

the body appointed by the Minister to administer compulsory specifications.

**2.8 Valid certificate of conformity:**

copy of an original certificate of conformity less than 12 months before the date of submission to the Regulator.

**2.9 Valid test certificate:**

copy of an original test certificate issued less than 36 months before the date of submission to the Regulator.

**2.10 Skilled person:**

A person who has relevant education and experience to enable him or her to perceive risks and to avoid hazards which electricity can create.

**2.11 Instructed person:**

A person who has been adequately advised or supervised by electrically skilled persons to enable him or her to perceive risks and to avoid hazards that electricity can create.

**2.12 Ordinary person:**

A person who is neither a skilled nor an instructed person.

**3 REQUIREMENTS**

**3.1** All apparatus shall be rated at the national standard low voltage, i.e. 230 V ac, single-phase, 50 Hz, or 400 V ac, 3-phase, 50 Hz, or shall have a rated voltage range that includes 230 V/400 V ac.

**3.2** All apparatus shall be capable of operating safely within the range  $\pm 10\%$  of the standard voltage.

- 3.3 Household and similar electrical appliances shall comply with the relevant requirements of SANS 60335-1 / IEC 60335-1 *Household and similar appliances – Safety, Part 1: General requirements*, together with the appropriate Part(s) 2 of the SANS 60335 series.
- 3.4 Audio, video, and similar electronic apparatus shall comply with the relevant requirements of SANS 60065/IEC 60065 *Audio, video and similar electronic apparatus – Safety requirements*.
- 3.5 Information technology equipment shall comply with the relevant requirements of SANS 60950-1/IEC 60950-1 *Information technology equipment – Safety, Part 1: General requirements*, together with the appropriate Part(s) 2 of the SANS 60950/IEC 60950 series.
- 3.6 Luminaires shall comply with the relevant requirements of the appropriate of the following standards:
- a) SANS 60598-1/IEC 60598-1 *Luminaires – Part 1: General requirements and tests*, together with the appropriate Part(s) 2 of the SANS 60598/IEC 60598 series (excluding Luminaires for emergency lighting):
  - b) Luminaires shall additionally comply with the power factor requirements of SANS 475 *Luminaires for interior lighting, street lighting and floodlighting – Performance requirements*:
  - c) Luminaires for emergency lighting shall comply with SANS 1484-22 *Safety of luminaires, Part 22: Luminaires for emergency lighting*; or
  - d) Electrical supply track systems for luminaires shall comply with SANS 60570/IEC 60670 *Electrical supply track systems for luminaires*.
- 3.7 Hand-held motor-operated or magnetically driven electric tools shall comply with the relevant requirements of SANS 60745-1/IEC 60745-1 *Hand-held motor-operated electric tools – Safety, Part 1: General requirements*, together with the appropriate Part(s) 2 of the SANS 60745/IEC 60745 series.
- 3.8 Transportable motor-operated electric tools shall comply with the relevant requirements of SANS 61029-1/IEC 61029-1 *Safety of transportable motor-operated electric tools Part 1: General requirements*, together with the appropriate Part(s) 2 of the SANS 61029/IEC 61029 series.
- 3.9 Electrical equipment for test and measurement, control, and laboratory use shall comply with the relevant requirements of SANS 61010-1/IEC 61010-1 *Safety*



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*requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements, together with the appropriate Parts(s) 2 of the SANS 61010/IEC 61010 series.*

3.10 The manufacturer or importer shall apply to the Regulator for approval of every type and model of apparatus before offering it for sale, in accordance with the requirements of Annex A.

3.11 When a new edition of a standard is published, approvals of products in accordance with the previous edition of that standard shall remain valid for five years unless decided otherwise by the Minister.

3.12 The manufacturer and/or the importer or both shall inform the Regulator of any change in design or components that affects any mandatory requirement in terms of this compulsory specification. In the event of such change or changes the Regulator may, at its discretion, demand the submission of fresh evidence of conformity or a new application for approval.

3.13 The manufacturer and/or the importer or both shall on request provide the Regulator within two working days with satisfactory proof of approval in respect of any apparatus included in the scope of this compulsory specification.

3.14 The manufacturer and/or importer shall on request provide the Regulator within five working days with satisfactory proof of conformity of production.

3.15 Failure to provide such proof shall constitute reasonable grounds for suspicion of non-conformance with the requirements of this compulsory specification.

#### **4 EQUIVALENCE OF STANDARDS**

Standards issued by different standardization bodies (for example, ISO, IEC, EN) that can be proved by the applicant to be technically identical to a South African National Standard are deemed to be the equivalent of that South African National Standard. Proof of conformity with such a standard shall be accepted as conformity with the corresponding South African National Standard.

#### **5 CONFORMITY WITH STANDARDS REFERRED TO BY EDITION AND DATE OF PUBLICATION**

5.1 For the purposes of this compulsory specification, a new edition of a standard shall become effective two months from its date of publication as a South African National Standard.

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5.2 New products or products resubmitted for approval because of a change in design or materials shall, in all cases, be evaluated against the requirements of the latest edition of any referenced standard.

## **6 ASSESSMENT OF CONFORMITY**

6.1 The following alternative forms of evidence shall be submitted to the Regulator as proof of conformity with the requirements of this compulsory specification:

- a) Copy of a valid certificate of IECEE conformity issued by a member of the IEC CB scheme; or
- b) Copy of a valid test certificate issued less than 36 months prior to date of application by a test laboratory recognized by the Regulator.

6.2 The certificate or test report shall prove conformity with all the applicable mandatory requirements of this compulsory specification.

6.3 Evidence of conformity shall be traceable to the specific model and type of apparatus in question.

**ANNEX A**

**APPROVAL OF ELECTRICAL AND ELECTRONIC APPARATUS**

**A.1 APPLICATION FOR APPROVAL**

An application for approval of each type of apparatus shall include:

- a) Details of the type and model of apparatus for which approval is sought and the standards to which it is claimed to conform;
- b) Details of the manufacturing plants in which the apparatus is produced;
- c) Evidence of conformity with all the requirements of the relevant compulsory specification including standards and test methods;
- d) Markings and other information appearing on the product;
- e) Any reasonable additional information requested by the Regulator.

**A.2 APPROVAL**

**A.2.1** The Regulator shall assess the proof of conformity supplied by the applicant. Additional information or evidence may be requested, or validation of evidence, at its sole discretion.

**A.2.2** The Regulator shall approve the electrical or electronic apparatus when all the requirements have been met.

**A.2.3** The Regulator shall assign a unique number to each approval.

No. 788

31 July 2009

**NATIONAL REGULATOR FOR COMPULSORY SPECIFICATIONS ACT, 2008**

**CORRECTION NOTICE**

**COMPULSORY SPECIFICATION FOR ELECTRICAL AND ELECTRONIC  
APPARATUS**

The following correction to Government Notice No R89 appearing in Government Gazette No 31844 of 6 February 2008 is hereby published for general information:

- In 1.2(d) (3): Delete the word "floodlight"
- In 2.1: Replace the words "lamp controlgear" with "electrical and electronic apparatus"
- In 2.2: Delete whole sentence and replace with a "void".
- In 2.8: Replace the wording "12 months" with "36 months".
- In 2.9: Replace the words "test certificate" with "test report".
- In 3.5: Add "(a)" after "3.5", (so that it reads "3.5(a)").
- In 3.5(b): Add "Power transformers, power supplies, reactors and similar products shall comply with relevant requirements of SANS 61558-1/IEC 61558-1: Safety of power transformers, power supplies, reactors and similar products Part 1: General requirements and tests, together with the appropriate Part(s) 2 of the SANS 61558/IEC 61558 series".
- In 3.6(b): Add "covered by the scope of this compulsory specification" after the word "luminaires" appears for the first time, in that clause.
- In 3.6(d): Replace "IEC 60670" with "IEC 60570".
- In 4: Replace the word "applicant" with "an accredited conformity assessment body".
- In 6.1(a): Add "and a full test report" after the word "CB scheme", and
- In 6.1(b): Replace the words "test certificate" with "test report".