

## DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

## NOTICE 109 OF 2021

STANDARDS ACT, 2008  
STANDARDS MATTERS

In terms of the Standards Act, 2008 (Act No. 8 of 2008), the Board of the South African Bureau of Standards has acted in regard to standards in the manner set out in the Schedules to this notice.

## SECTION A: DRAFTS FOR COMMENTS

The following draft standards are hereby issued for public comments in compliance with the norm for the development of the South Africa National standards in terms of section 23(2)(a) (ii) of the Standards Act.

Draft Standard No. and Edition	Title, scope and purport	Closing Date
SANS 7243 Ed 2	<i>Ergonomics of the thermal environment — Assessment of heat stress using the WBGT (wet bulb globe temperature) index</i> Covers a method which can easily be used in an industrial environment for evaluating the stresses on an individual. Applies to the evaluation of the mean effect of heat on man during a period representative of his activity but does not apply to very short periods, nor to zones of comfort.	2021-04-11
SANS 11890-2 Ed 2	<i>Paints and varnishes – Determination of volatile organic compounds(VOC) and/or semi volatile organic compounds (SVOC) content – Part 2: Gas-chromatographic method.</i> Applies to the determination of VOC and SVOC with an expected VOC and/or SVOC content greater than 0,01 % by mass up to 100 % by mass..	2021-04-11
SANS 10139	<i>Code of practice for design, installation, commissioning and maintenance of fire detection and alarm systems in non-domestic premises.</i> Provides recommendations for the planning, design, installation, commissioning and maintenance of fire detection and fire alarm systems in and around buildings, other than dwellings.	2021-03-25
SANS 10228 Ed 7	<i>The identification and classification of dangerous goods for transport by road and rail modes.</i> Covers the identification of dangerous goods that are capable of posing a significant risk to health and safety or to property and the environment.	2021-04-11
SANS 62477-1 Ed 1	<i>Safety requirements for power electronic converter systems and equipment – Part 1: General.</i> Applies to Power Electronic Converter Systems (PECS) and equipment, their components for electronic power conversion and electronic power switching, including the means for their control, protection, monitoring and measurement, such as with the main purpose of converting electric power, with rated system voltages not exceeding 1 000 V a.c. or 1 500 V d.c.	2021-04-11

## SCHEDULE A.1: AMENDMENT OF EXISTING STANDARDS

The following draft amendments are hereby issued for public comments in compliance with the norm for the development of the South African National Standards in terms of section 23(2)(a) (ii) of the Standards Act.

Draft Standard No. and Edition	Title	Scope of amendment	Closing Date
SANS 780 Ed 5.1	<i>Distribution transformers</i>	Amended to update referenced standards, requirements for load loss and temperature rise, tap changers, construction requirements, tank cover, cable connection boxes, protection against corrosion, insulating materials and method of cooling.	2021-04-12
SANS 1212 Ed 2.5	<i>The National Flag</i>	Amended to update referenced standards, to update general requirements, to delete the annex on notes to purchasers, to move the references to legislation to the foreword, and to update the annex on colours.	2021-04-11

**SCHEDULE A.2: WITHDRAWAL OF THE SOUTH AFRICAN NATIONAL STANDARDS**

In terms of section 24(1)(C) of the Standards Act, the following published standards are issued for comments with regard to the intention by the South African Bureau of Standards to withdraw them.

Draft Standard No. and Edition	Title	Reason for withdrawal	Closing Date
SANS 60099-7	<i>Surge arresters Part 7: Glossary of terms and definitions from IEC publications 60099-1, 60099-4, 60099-6, 61643-1, 61643-12, 61643-21, 61643-311, 61643-321, 61643-331 and 61643-341</i>	The standard is obsolete	2021-04-30
SANS 954	<i>Metal-arc welding equipment (non-automatic, single-operator, transformer type)</i>	Project cancelled due to lack of interest from committee members.	2021-04-30

**SECTION B: ISSUING OF THE SOUTH AFRICAN NATIONAL STANDARDS****SCHEDULE B.1: NEW STANDARDS**

The following standards have been issued in terms of section 24(1)(a) of the Standards Act.

Standard No. and year	Title, scope and purport
SANS 61984:2021 Ed 1	<i>Connectors – Safety requirements and tests.</i> Applies to connectors with rated voltages above 50 V and up to 1000 V a.c. and d.c. and rated currents up to 125 A per contact, for which either no detail specification (DS) exists or the DS calls up this standard for safety aspects.
SANS 62793:2021 Ed 1	<i>Thunderstorm warning systems – Protection against lightning.</i> Describes the characteristics of thunderstorm warning systems (TWSs) in order to implement lightning hazard preventive measures.
SANS 51992-4:2021 Ed 1	<i>Eurocode 2 – Design of concrete structures – Part 4: Design of fastenings for use in concrete.</i> Provides a design method for fastenings (connection of structural elements and non-structural elements to structural components), which are used to transmit actions to the concrete.
SANS 27917:2021 Ed 1	<i>Carbon dioxide capture, transportation and geological storage – Vocabulary – Cross cutting terms.</i> Defines a list of cross-cutting terms commonly used in the field of carbon dioxide capture, transportation and geological sub-surface storage including through storage in association with enhanced oil recovery (EOR) operations.
SATR 27918:2021 Ed 1	<i>Carbon dioxide capture, transportation and geological storage – Lifecycle risk management for integrated CCS projects.</i> Intends to be an information resource for the potential future development of a standard for overall risk management for CCS projects.
SANS 62442-3:2021 Ed 2	<i>Energy performance of lamp controlgear – Part 3: Controlgear for tungsten-halogen lamps and LED light sources – Method of measurement to determine the efficiency of the controlgear.</i> Defines a measurement method for the power losses of electromagnetic transformers as well as the power losses and the standby power of electronic convertors for tungsten-halogen lamps and for LED light source(s).
SANS 60335-2-25:2021 Ed 5	<i>Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens.</i> Applies to microwave ovens intended to be used on board ships, for which Annex BB is applicable.
SANS 50352-2:2021 Ed 2	<i>Hearing protectors – Safety requirements and testing – Part 2: Ear-plugs.</i> Specifies constructional, design and performance requirements, marking requirements and user information for ear-plugs.

Standard No. and year	Title, scope and purport
SANS 61547:2021 Ed 3	<i>Equipment for general lighting purposes – EMC immunity requirements.</i> Deals with electromagnetic immunity requirements, and applies to lighting equipment including apparatus such as lamps, luminaires, and modules.
SANS 62031:2021 Ed 2	<i>LED modules for general lighting – Safety specifications.</i> Specifies general and safety requirements for light-emitting diode (LED) modules: non-integrated LED modules (LEDni modules) and semi-integrated LED modules (LEDsi modules) for operation under constant voltage, constant current or constant power; integrated LED modules (LEDi modules) for use on DC supplies up to 250 V or AC supplies up to 1 000 V at 50 Hz or 60 Hz.
SABS NATIONAL NORM:2021 Ed 2	<i>National norm for the development of South African National Standards.</i> Describes the processes for the development, approval, issue, maintenance, amendment, revision and withdrawal of South African National Standards (SANS).
SANS 52672:2021 Ed 2	<i>Chemicals used for treatment of water intended for human consumption – Potassium permanganate.</i> Applies to potassium permanganate used for treatment of water intended for human consumption.
SANS 6118:2021 Ed 2	<i>Spigot holding strength of ladies' plastics moulded heel top-pieces.</i> Specifies a method for the determination of spigot holding strength of ladies' plastics moulded heel top pieces.
SANS 19110:2021 Ed 2	<i>Geographic information – Methodology for feature cataloguing.</i> Specifies how the feature types can be organised in to a feature catalogue and presented to the user of a set of geographic data.
SANS 21508:2021 Ed 1	<i>Earned value management in project and programme management.</i> Provides guidance for practices of earned value management in project and programme management.

## SCHEDULE B.2: AMENDED STANDARDS

The following standards have been amended in terms of section 24(1)(a) of the Standards Act.

Standard No. and year	Title, scope and purport
SANS 1017:2021 Ed 1.6	<i>Electric cables for motor vehicles - Low-voltage cables and flexible earthing straps for motor vehicles. Consolidated edition incorporating amendment No.6.</i> Amended to update the definitions and the clause on requirements for the finished product, and to delete the appendix on notes to purchasers.
SANS 1459:2021 Ed 2.1	<i>Traffic lights. Consolidated edition incorporating amendment No.1.</i> Amended to move reference to the relevant national body to the foreword, and to delete the annex on notes to purchasers.
SANS 60079-2:2015 Ed 4	<i>Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure "p". This edition contains a loose-leaf corrigendum.</i> Corrected to update the foreword, and to update the subclause on supplementary marking.
SANS 60335-2-4:2021 Ed 3.2	<i>Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors. Consolidated edition incorporating amendment No.2.</i> Amended to update the note that refers to the annex on rinsing agent in the foreword and the requirements for moisture resistance, to delete the annex on rinsing agent, and to update referenced standards.
SANS 60335-2-24:2021 Ed 5.2	<i>Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers. Consolidated edition incorporating amendment No.2.</i> Amended to update referenced standards, terms and definitions, the clauses on general conditions for tests, marking and instructions, moisture resistance, stability and mechanical hazards, mechanical strength, construction, components, clearances, creepage distances and solid insulation, resistance to heat and fire, and the annex on non-sparking "n" electrical apparatus.
SANS 60335-2-31:2021 Ed 4.1	<i>Household and similar electrical appliances – Safety – Part 2-31: Particular requirements for range hoods and other cooking fume extractors. Consolidated edition incorporating amendment No.1.</i> Amended to update referenced standards, and to update the clauses on marking and instructions, heating, construction and on resistance to heat and fire.

SANS 60335-2-39:2021 Ed 5.1	<i>Household and similar electrical appliances – Safety – Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans. Consolidated edition incorporating amendment No.1.</i> Amended to update referenced standards, the clauses on terms and definitions, marking and instructions, heating, leakage current and electric strength at operating temperature, moisture resistance, leakage current and electric strength, and on screws and connections, and to add the annex on guidance for the application of this standard to appliances used in warm damp equable climates.
SANS 60335-2-48:2021 Ed 4.2	<i>Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters. Consolidated edition incorporating amendment No.2.</i> Amended to update the scope, referenced standards, classification, marking and instructions, heating, leakage current and electric strength at operating temperature, leakage current and electric strength, abnormal operation, construction, supply connection and external flexible cords, screws and connections, and to add the annex on guidance for the application of this standard to appliances used in tropical climates.
SANS 60335-2-49:2021 Ed 4.2	<i>Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm. Consolidated edition incorporating amendment No.2.</i> Amended to update the title of the standard, the scope, referenced standards, terms and definitions, the clauses on classification, marking and instructions, heating, leakage current and electric strength at operating temperature, moisture resistance, leakage current and electric strength, abnormal operation, supply connection and external flexible cords, screws and connections, resistance to heat and fire, radiation, and to add the annex on guidance for the application of this standard to appliances used in tropical climates.
SANS 60335-2-50:2021 Ed 4.2	<i>Household and similar electrical appliances – Safety Part 2-50: Particular requirements for commercial electric bains-marie. Consolidated edition incorporating amendment No.2.</i> Amended to update the scope, referenced standards, terms and definitions, the requirements for classification, marking and instructions, heating, leakage current and electric strength at operating temperature, moisture resistance, and for leakage current and electric strength, to delete the note to the clause on abnormal operation, to update the requirements for construction, supply connection and external flexible cords, screws and connections, resistance to heat and fire, radiation, toxicity and similar hazards and to add the annex on guidance for the application of this standard to appliances used in tropical climates.
SANS 62282-6-100:2021 Ed 1.1	<i>Fuel cell technologies – Part 6-100: Micro fuel cell power systems – Safety. Consolidated edition incorporating amendment No.1.</i> Amended to update referenced standards, and to replace the mass loss with the hydrogen leakage test.

### SCHEDULE B.3: WITHDRAWN STANDARDS

In terms of section 24(1)(C) of the Standards Act, the following standards have been withdrawn.

Standard No. and year	Title

If your organization is interested in participating in these committees, please send an e-mail to [Dsscomments@sabs.co.za](mailto:Dsscomments@sabs.co.za) for more information.

### SCHEDULE 5: ADDRESS OF THE SOUTH AFRICAN BUREAU OF STANDARDS HEAD OFFICE

Copies of the standards mentioned in this notice can be obtained from the Head Office of the South African Bureau of Standards at 1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria 0001.