

## DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

## GENERAL NOTICE 437 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 African 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 20904 Ed 2	<i>Hard coal – Sampling of slurries</i> . Sets out the basic methods for sampling fine coal, coal rejects or tailings of nominal top size <4 mm that is mixed with water to form a slurry.	2021-09-06
SANS 21998 Ed 1	<i>Interpreting services – Healthcare interpreting – Requirements and recommendations</i> . Specifies requirements and recommendations for healthcare interpreting services in spoken and signed communication.	2021-09-06
SANS 18013-1 Ed 2	<i>Information technology – Personal identification – ISO-compliant driving licence Part 1: Physical characteristics and basic data set</i> . Provides guidelines for the design format and data content of an ISO-compliant driving licence (IDL) in regard to both visual human-readable features and ISO machine-readable technologies.	2021-09-06
SANS 18013-2 Ed 2	<i>Information technology – Personal identification – ISO-compliant driving licence Part 2: Machine-readable technologies</i> . Prescribes requirements for the implementation of machine-readable technology on an IDL.	2021-09-06
SANS 18013-3 Ed 2	<i>Information technology – Personal identification – ISO-compliant driving licence Part 3: Access control, authentication and integrity validation</i> . Establishes guidelines for the design format and data content of an ISO-compliant driving licence (IDL) with regard to human-readable features (ISO/IEC 18013-1), machine-readable technologies (ISO/IEC 18013-2), and access control, authentication and integrity validation (ISO/IEC 18013-3).	2021-09-06
SANS 18013-4 Ed 2	<i>Information technology - Personal identification - ISO-compliant driving licence - Part 4: Test methods</i> . Describes the test methods used for conformity testing, that is methods for determining whether a driving licence can be considered to comply with the requirements of the ISO/IEC 18013 series.	2021-09-06
SANS 61158-3-11 Ed 1	<i>Industrial communication networks – Fieldbus specifications – Part 3-11: Data-link layer service definition – Type 11 elements</i> . Defines in an abstract way the externally visible service provided by the Type 12 fieldbus data-link layer in terms of the primitive actions and events of the service, the parameters associated with each primitive action and event, and the form which they take and the interrelationship between these actions and events, and their valid sequences.	2021-09-14
SANS 61158-3-20 Ed 1	<i>Industrial communication networks - Fieldbus specifications – Part 3-20: Data-link layer service definition – Type 20 elements</i> . Provides common elements for basic time-critical messaging communications between devices in an automation environment.	2021-09-14
SANS 60335-2-118 Ed 1	<i>Household and similar electrical appliances – Safety – Part 2-118: Particular requirements for professional ice-cream makers</i> . Deals with the safety of appliances for making ice cream and artisan gelato appliances taken into account are those intended for commercial use and similar appliances not intended for normal household use but which may nevertheless be a source of danger to the public, such as appliances intended to be used by laymen in shops, stores, by artisans or on farms, which rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances.	2021-09-06

SANS 62386-217 Ed 1	<i>Digital addressable lighting interface – Part 217: Particular requirements for control gear – Thermal gear protection (device type 16).</i> Specifies a bus system for control by digital signals of electronic lighting equipment which is in line with the requirements of IEC 61347 (all parts), with the addition of DC supplies.	2021-09-14
SATR 62271-312 Ed 1	<i>High-voltage switchgear and controlgear – Part 312: Guidance for the transferability of type tests of high-voltage/low-voltage prefabricated substations.</i> Refers to high-voltage / low-voltage prefabricated substations (hereinafter prefabricated substations) as specified in SANS 62271-202.	2021-09-14
SATR 62681 Ed 1	<i>Electromagnetic performance of high voltage direct current (HVDC) overhead transmission lines.</i> Provides general guidance on the electromagnetic environment issues of HVDC transmission lines.	2021-09-14
SATS 62344 Ed 1	<i>Design of earth electrode stations for high-voltage direct current (HVDC) links – General guidelines.</i> Applies to the design of earth electrode stations for high-voltage direct current (HVDC) links.	2021-09-14
SANS 60947-6-1 Ed 3	<i>Low-voltage switchgear and controlgear – Part 6-1: Multiple function equipment – Transfer switching equipment.</i> Applies to transfer switching equipment (TSE), to be used in power systems for ensuring the continuity of the supply and allowing the energy management of the installation, by transferring a load between power supply sources, the rated voltage of which does not exceed 1 000 V AC or 1 500 V DC.	2021-09-14
SANS 60947-6-2 Ed 3	<i>Low-voltage switchgear and controlgear – Part 6-2: Multiple function equipment – Control and protective switching devices (or equipment) (CPS).</i> Applies to control and protective switching devices (or equipment) (CPS), the main contacts of which are intended to be connected to circuits of rated voltage not exceeding 1 000 V AC or 1 500 V DC.	2021-09-14
SANS 60947-9-2 Ed 1	<i>Low-voltage switchgear and controlgear – Part 9-2: Active arc-fault mitigation systems – Optical-based internal arc-detection and mitigation devices.</i> Covers internal arc-fault control devices, hereinafter referred to as IACD, which are intended to detect internal arc-faults in low-voltage switchgear and controlgear assemblies, by processing (at a minimum) the optical effect of an internal arc-fault.	2021-09-14
SANS 61386-21 Ed 2	<i>Conduit systems for cable management – Part 21: Particular requirements – Rigid conduit systems.</i> Specifies the requirements for rigid conduit systems.	2021-09-14
SANS 61386-22 Ed 2	<i>Conduit systems for cable management – Part 22: Particular requirements – Pliable conduit systems.</i> Specifies the requirements for pliable conduit systems including self-recovering conduit systems.	2021-09-14
SANS 61386-23 Ed 2	<i>Conduit systems for cable management Part 23: Particular requirements – Flexible conduit systems.</i> Specifies the requirements for flexible conduit systems.	2021-09-14
SANS 62271-104 Ed 3	<i>High-voltage switchgear and controlgear – Part 104: Alternating current switches for rated voltages higher than 52 kV.</i> Applies to three-pole alternating current switches for rated voltages higher than 52 kV, having making and breaking current ratings, for indoor and outdoor installations, and for rated frequencies up to and including 60 Hz.	2021-09-14
SANS 62271-106 Ed 2	<i>High-voltage switchgear and controlgear – Part 106: Alternating current contactors, contactor-based controllers and motor-starters.</i> Applies to AC contactors or contactor-based controllers (or both) and motor-starters designed for indoor installation and operation at frequencies up to and including 60 Hz on systems with voltages above 1 000 V but not exceeding 24 000 V.	2021-09-14
SANS 60715 Ed 1	<i>Dimensions of low-voltage switchgear and controlgear – Standardized mounting on rails for mechanical support of switchgear, controlgear and accessories.</i> Specifies dimensional and functional requirements for the compatible mounting of switchgear, controlgear and accessories on some types of rails.	2021-09-14
SANS 60584-1 Ed 1	<i>Thermocouples – Part 1: EMF specifications and tolerances.</i> Specifies reference functions and tolerances for letter-designated thermocouples (Types R, S, B, J, T, E, K, N, C and A).	2021-09-16
SANS 15099 Ed 1	<i>Thermal performance of windows, doors and shading devices – Detailed calculations.</i> Specifies detailed calculation procedures for determining the thermal and optical transmission properties (e.g., thermal transmittance, total solar energy transmittance) of window and door systems based on the most up-to-date algorithms and methods, and the relevant solar and thermal properties of all components.	2021-09-21

SANS 60584-1 Ed 1	<i>Thermocouples – Part 1: EMF specifications and tolerances.</i> Specifies reference functions and tolerances for letter-designated thermocouples (Types R, S, B, J, T, E, K, N, C and A). Temperatures are expressed in degrees Celsius based on the International Temperature Scale of 1990, ITS-90 (symbol t <sub>90</sub> ), and the EMF (symbol E) is in microvolts. This International Standard specifies the tolerances for thermocouples manufactured in accordance with this standard. The tolerance values are for thermocouples manufactured from wires, normally in the diameter range 0,13 mm to 3,2 mm, as delivered to the user and do not allow for calibration drift during use.	2021-09-16
SANS 10014 Ed 2	<i>Quality management systems – Managing an organization for quality results – Guidance for realizing financial and economic benefits.</i> Gives guidelines for realizing financial and economic benefits.	2021-09-14
SANS 12207 Ed 3	<i>Systems and software engineering – Software life cycle processes.</i> Provides processes that can be employed for defining, controlling, and improving software life cycle processes within an organization or a project.	2021-09-14
SANS 24748-2 Ed 1	<i>Systems and software engineering – Life cycle management – Part 2: Guidelines for the application of ISO/IEC/IEEE 15288 (System life cycle processes).</i> Guidelines for the application of ISO/IEC/IEEE 15288:2015. Addresses system, life cycle, organizational, project, and process, concept application, principally through reference to ISO/IEC/IEEE 24748-1 and ISO/IEC/IEEE 15288:2015.	2021-09-14
SANS 403 Ed 2	<i>Hard coal – Determination of moisture-holding capacity.</i> Gives reference to ASTM D1412 as a method of determining the moisture-holding capacity of hard coals.	2021-09-15
SANS 15238 Ed 2	<i>Solid mineral fuels – Determination of total cadmium content of coal.</i> Specifies a procedure for the determination of the total cadmium content of coal.	2021-09-15
SANS 12217-1 Ed 2	<i>Small craft – Stability and buoyancy assessment and categorization –Part 1: Non-sailing boats of hull length greater than or equal to 6 m.</i> Specifies methods for evaluating the stability and buoyancy of intact (i.e. undamaged) boats. The flotation characteristics of boats vulnerable to swamping are also encompassed.	2021-09-15
SANS 12217-2 Ed 2	<i>Small craft - Stability and buoyancy assessment and categorization Part 2: Sailing boats of hull length greater than or equal to 6 m.</i> Specifies methods for evaluating the stability and buoyancy of intact (i.e. undamaged) boats.	2021-09-15
SANS 12217-3 Ed 2	<i>Small craft - Stability and buoyancy assessment and categorization Part 3: Boats of hull length less than 6 m.</i> Specifies methods for evaluating the stability and buoyancy of intact (i.e. undamaged) boats. The flotation characteristics of craft vulnerable to swamping are also encompassed.	2021-09-15
SANS 100013 Ed 2	<i>Guidelines for quality management system documentation.</i> Gives guidance for the development and maintenance of the documented information necessary to support an effective quality management system, tailored to the specific needs of the organization.	2021-09-14
SANS 60601-1-6 Ed 1	<i>Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral Standard: Usability.</i> Specifies a process for a manufacturer to analyse, specify, develop and evaluate the usability, as it relates to basic safety and essential performance of medical electrical equipment, hereafter referred to as me equipment.	2021-09-14
SANS 60793-2-40 Ed 4	<i>Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres.</i> Applicable to category A4 optical multimode fibres and the related subcategories A4a, A4b, A4c, A4d, A4e, A4g, A4h and A4i.	2021-09-14
SANS 60947-4-1 Ed 4	<i>Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters.</i> Applies to the following equipment, electromechanical contactors and starters including motor protective switching device (MPSD); actuators of contactor relays; contacts dedicated exclusively to the coil circuit of this contactor or this contactor relay; dedicated accessories (e.g. dedicated wiring, dedicated latch accessory); intended to be connected to distribution circuits, motors circuits and other load circuits, the rated voltage of which does not exceed 1 000 V AC or 1500 V DC.	2021-09-14
SANS 61439-3 Ed 1	<i>Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO).</i> Defines the specific requirements for distribution boards intended to be operated by ordinary persons (DBO).	2021-09-14

SANS 60204-1 Ed 4	<i>Safety of machinery - Electrical equipment of machines – Part 1: General requirements.</i> Applies to electrical, electronic and programmable electronic equipment and systems to machines not portable by hand while working, including a group of machines working together in a co-ordinated manner.	2021-09-14
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### 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
ARP 013 Ed 4.1	<i>Rules for the structure and drafting of national standards</i>	Amended to update referenced standards, to update terms and definitions, to renumber the definitions accordingly, and to update the information in the annex on basic reference works.	2021-09-07
SATS 2 Ed 1.1	<i>The development of normative documents other than South African National Standards</i>	Amended to delete the note to the scope, and to update referenced documents, definitions, and the figure on stages of development.	2021-09-07
SANS 637 Ed 1.2	<i>Wood-wool panels (cement-bonded)</i>	Amended to delete notes to purchasers.	2021-09-06
SANS 3001-AS22 Ed 1.1	<i>Civil engineering test methods – Part AS22: Determination of the binder content of mixtures used in bituminous slurry seals</i>	Amended to update the introduction, referenced standards, definitions, the clause on apparatus, the clause on procedure, the clause on calculations, and the annex on example of the calculation procedure.	2021-09-14
SANS 60335-2-8 Ed 3.1	<i>Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances</i>	Amended to update the Marking and instructions and components requirements.	2021-09-14
SANS 60598-2-13 Ed 1.1	<i>Luminaires – Part 2-13: Particular requirements – Ground recessed luminaires</i>	Specifies requirements for ground recessed luminaires incorporating electric light sources for operation from supply voltages up to 1 000 V, for indoor or outdoor use, e.g. in gardens, yards, carriageways, parking lots, cycleways, footways, pedestrian areas, swimming pools areas outside zones for SELV, nurseries and similar applications.	2021-09-14
SANS 967 Ed 3.1	<i>Unplasticized poly(vinyl chloride) (PVC-U) soil, waste and vent pipes and pipe fittings</i>	Amended to align the marking in line with industry practice and accommodate extruded pipe into the relevant clauses.	2021-09-21

### 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 13600 Ed 1	<i>Technical energy systems – Basic concepts</i>	The standard is obsolete.	2021-09-16
SANS 13601 Ed 1	<i>Technical energy systems – Structure for analysis – Energyware supply and demand sectors</i>	The standard is obsolete.	2021-09-16

SANS 1700-14-11 Ed 1	<i>Fasteners – Part 14: Hexagon nuts Section 11: Hexagon nuts for structural bolting, Style 2, hot-dip galvanized (oversize tapped) – Product grade A - Property class 9</i>	The standard is obsolete.	2021-09-16
SANS 1700-6-5 Ed 1	<i>Fasteners – Part 6: Testing and acceptance inspection Section 5: Widening test on nuts</i>	The standard is obsolete.	2021-09-16
SANS 1700-5-17 Ed 1	<i>Fasteners – Part 5: General requirements and mechanical properties Section 17: Mechanical and performance requirements of case hardened and tempered metric thread rolling screws</i>	The standard is obsolete.	2021-09-16
SANS 1700-5-14 Ed 1	<i>Fasteners – Part 5: General requirements and mechanical properties – Section 14: Bolts, screws, studs and nuts made of non-ferrous metals</i>	The standard is obsolete.	2021-09-16
ARP 051 Ed 1	<i>Steel wire rope end connections</i>	The standard is obsolete.	2021-09-16
SANS 6077 Ed 2	<i>Fire test for valves and other assemblies used in fire-hazardous situations</i>	The standard is obsolete.	2021-09-16

## 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.

<b>Standard No. and year</b>	<b>Title, scope and purport</b>
SANS 41014:2021 Ed 1	<i>Facility management – Development of a facility management strategy.</i> Gives guidelines for the development of a strategy for facility management (FM) when the FM organization: a) intends to ensure alignment between FM requirements and the objectives, needs and constraints of the demand organizations core business; b) wants to improve the usefulness and benefits provided by the facilities for the betterment of the demand organization and its core business; c) aims to meet the needs of stakeholders and applicable provisions consistently; d) aims to be sustainable in a globally competitive environment.
SANS 60076-22-5:2021 Ed 1	<i>Power transformers – Part 22-5: Power transformer and reactor fittings – Electric pumps for transformers.</i> Covers electric pumps used in the cooling circuits of power transformers and reactors.
SANS 61158-3-2:2021 Ed 1	<i>Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements.</i> Defines in an abstract way the externally visible service provided by the Type 2 fieldbus data-link layer in terms of the primitive actions and events of the service, the parameters associated with each primitive action and event, and the form which they take and the interrelationship between these actions and events, and their valid sequences.
SANS 61158-3-8:2021 Ed 1	<i>Industrial communication networks – Fieldbus specifications – Part 3-8: Data-link layer service definition – Type 8 elements.</i> Provides common elements for basic time-critical messaging communications between devices in an automation environment.
SANS 61158-3-21:2021 Ed 1	<i>Industrial communication networks – Fieldbus specifications – Part 3-21: Data-link layer service definition – Type 21 elements.</i> Defines in an abstract way the externally visible service provided by the Type 21 data-link layer in terms of the primitive actions and events of the service.

Standard No. and year	Title, scope and purport
SATR 63179-1:2021 Ed 1	<i>Guideline for planning of HVDC systems – Part 1: HVDC systems with line-commutated converters.</i> Provides guidelines for the selection of a high-voltage directive current (HVDC) system with line-commutated converters (LCC), hereafter referred to as HVDC system, for the purposes of HVDC system planning.
SANS 21511:2021 Ed 1	<i>Work breakdown structures for project and programme management.</i> Provides guidance for work breakdown structure for organizations undertaking projects or programme management.
SANS 22059:2021 Ed 1	<i>Guidelines on consumer warranties/guarantees.</i> Specifies the form and content of warranties/guarantees that a manufacturer and/or supplier can use to address reasonable expectations of products by consumers.
SANS 27035-1:2021 Ed 1	<i>Information technology - Security techniques – Information security incident management - – Part 1: Principles of incident management.</i> Provides basic concepts and phases of information security incident management and combines these concepts with principles in a structured approach to detecting, reporting, assessing, and responding to incidents, and applying lessons learnt.
SANS 27914:2021 Ed 1	<i>Carbon Dioxide Capture, Transportation and Geological Storage – Geological Storage.</i> Establishes requirements and recommendations for the geological storage of Carbon dioxide streams, the purpose of which is to promote commercial, safe, long term containment of Carbon dioxide in a way that minimise risk to the environment and human health.
SATR 27915:2021 Ed 1	<i>Carbon Dioxide Capture, Transportation and Geological Storage – Quantification and verification.</i> Presents a review of publicly available literature identifying materially relevant issues and options relating to "good practices" for quantifying and verifying GHG emissions and reductions at the project level.
SANS 61482-1-1:2021 Ed 2	<i>Live working - Protective clothing against the thermal hazards of an electric arc – Part 1-1: Test methods – Method 1: Determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing.</i> Specifies test method procedures to determine the arc rating of flame resistant clothing materials and garments or assemblies of garments intended for use in clothing for workers if there is an electric arc hazard.
SANS 62271-108:2021 Ed 2	<i>High-voltage switchgear and controlgear -Part 108: High-voltage alternating current disconnecting circuit-breakers for rated voltages above 52 Kv.</i> Applies to high-voltage alternating current disconnecting circuitbreakers for operation at frequencies of 50 Hz and 60 Hz on systems having voltages above 52 kV.

## 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 60851-3:2021 Ed 2.2	<i>Winding wires – Test methods –Part 3: Mechanical properties. Consolidated edition incorporating amendment No.2.</i> Amended to update the requirements for test 8: flexibility and adherence, and the clause on test 18: heat bonding.
SATR 60269-5:2021 Ed 2.1	<i>Low-voltage fuses – Part 5: Guidance for the application of low-voltage fuses. Consolidated edition incorporating amendment No.1.</i> Amended to update referenced standards, the requirements for fuse benefits, fuse construction and operation, fuse-combination units, fuse selection and markings, conductor protection, selectivity of protective devices, transformer protection, protection of semiconductor devices in a.c rated voltage circuits, photovoltaic (PV) system protection, and to add a clause on guidance for the selection of a fuse for the protection of a battery systems.

**SCHEDULE B.3: WITHDRAWN STANDARDS**

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

<b>Standard No. and year</b>	<b>Title</b>
SANS 5655:2008 Ed.3	<i>Determination of flammability of elastomeric material</i>
SANS 5261:2021 Ed 3.1	<i>Bactericidal efficacy of anti-bacterial liquid toilet soap</i>
SANS 10055-3:2021 Ed 1	<i>ISO 9001: 2000 Process auditing – Part 3: Generic process performance model and work products</i>

**SCHEDULE B4: DISBAND OF TECHNICAL COMMITTEES**

<b>Committee No</b>	<b>Title</b>	<b>Scope</b>

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 B5: 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.