

## DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

## NOTICE 626 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 24748-4 Ed 1	<i>Systems and software engineering – Life cycle management – Part 4: Systems engineering planning.</i> Identifies the processes as defined in ISO/IEC/IEEE 15288 to perform the necessary project planning activities to accomplish the project's technical effort and to develop the project's SEMP.	2021-11-19
SANS 61439-7 Ed 1	<i>Low-voltage switchgear and controlgear assemblies – Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations.</i> Defines the specific requirements of ASSEMBLIES for which the rated voltage does not exceed 1 000 V in case of a.c. or 1 500 V in case of d.c; stationary or movable ASSEMBLIES with enclosure; ASSEMBLIES intended for use in connection with the generation, transmission, distribution and conversion of electric energy, and for the control of electric energy consuming equipment; ASSEMBLIES operated by ordinary persons; ASSEMBLIES intended to be installed and used in marinas, camping sites, market squares, electric vehicle charging stations and other similar external public sites or similar sites.	2021-11-19
SANS 60034-1 Ed 5	<i>Rotating electrical machines – Part 1: Rating and performance.</i> Applicable to all rotating electrical machines except those covered by other IEC standards, for example, IEC 60349.	2021-11-19
SANS 61243-1 Ed 3	<i>Live working – Voltage detectors – Part 1: Capacitive type to be used for voltages exceeding 1 kV a.c.</i> Applies to portable voltage detectors, with or without built-in power sources, to be used on electrical systems for voltages of 1 kV to 765 kV a.c., and frequencies of 50 Hz and/or 60 Hz.	2021-11-19
SANS 61083-1 Ed 1	<i>Instruments and software used for measurement in high-voltage impulse tests – Part 1: Requirements for instruments.</i> Applies to digital recorders, including digital oscilloscopes, used for measurements during tests with high impulse voltages and high impulse currents, and specifies the measuring characteristics and calibrations required to meet the measuring uncertainties and procedures specified in IEC 60060-2 and IEC 62475.	2021-11-19
SANS 12207-2- Ed 1	<i>Systems and software engineering – Software life cycle processes – Part 2: Relation and mapping between ISO/IEC/IEEE 12207:2017 and ISO/IEC 12207:2008.</i> Provides the mapping expressing corresponding relations between software life cycle processes in ISO/IEC/IEEE 12207:2017 and the processes in ISO/IEC 12207:2008.	2021-11-19
SANS 60137 Ed 4	<i>Insulated bushings for alternating voltages above 1 000 V.</i> Specifies the characteristics and tests for insulated bushings.	2021-11-19
SANS 61083-2 Ed 1	<i>Instruments and software used for measurement in high-voltage and high current tests – Part 2: Requirements for software for tests with impulse voltages and currents.</i> Applies to software used for evaluation of impulse parameters from recorded impulse voltages and currents, and provides test waveforms and reference values for the software required to meet the measuring uncertainties and procedures specified in IEC 60060-1, IEC 60060-2, IEC 60060-3 and IEC 62475.	2021-11-19

SANS 61083-3 Ed 1	<i>Instruments and software used for measurement in high-voltage and high-current tests – Part 3: Requirements for hardware for tests with alternating and direct voltages and currents.</i> Applicable to digital recording instruments used for measurements during tests with high alternating and direct voltages and currents, and specifies the measuring characteristics and calibrations required to meet the measuring uncertainties and procedures specified in the relevant IEC standards (e.g. IEC 60060-1, IEC 60060-2, IEC 60060-3, IEC 62475, IEC 61180).	2021-11-19
SATS 63107 Ed 1	<i>Integration of internal arc-fault mitigation systems in power switchgear and controlgear assemblies (PSC-Assemblies) according to IEC 61439-2.</i> States requirements for integration and testing of IAMS in low-voltage switchgear and controlgear assemblies - power switchgear and controlgear assemblies according to IEC 61439-1 and IEC 61439-2 (PSC-assemblies) to demonstrate their correct operation.	2021-11-19
SANS 62271-213 Ed 1	<i>High-voltage switchgear and controlgear – Part 213: Voltage detecting and indicating system.</i> Applicable to the voltage detecting and indicating system (VDIS) to be installed on indoor and outdoor high-voltage equipment.	2021-11-22
SATS 62257-4 Ed 1	<i>Recommendations for renewable energy and hybrid systems for rural electrification – Part 4: System selection and design.</i> Provide to different players involved in rural electrification projects (such as project implementers, project contractors, project supervisors, installers, etc.) documents for the setting up of renewable energy and hybrid systems with AC voltage below 1 000 V and DC voltage below 1 500 V.	2021-12-07
SATS 62257-9-7 Ed 1	<i>Recommendations for renewable energy and hybrid systems for rural electrification – Part 9-7: Recommendations for selection of inverters.</i> Specifies the criteria for selecting and sizing inverters suitable for different off-grid applications integrating solar as an energy source.	2021-12-07
SATS 62257-2 Ed 1	<i>Recommendations for renewable energy and hybrid systems for rural electrification – Part 2: From requirements to a range of electrification systems.</i> Provides some structures as technical solutions that could be recommended, depending on the qualitative and quantitative energy demands, consistent with the needs and financial situation of the customers.	2021-12-07

### 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 164-1 Ed 5.6	<i>Plug and socket-outlet systems for household and similar purposes for use in South Africa – Part 1: Two-pole and earth, 16 A 250 V a.c. system</i>	Amended to update the note on explanation of reference numbers on standard sheet 1-1.	2021-11-19
SANS 927 Ed 3.4	<i>Precast concrete kerbs, edgings and channels</i>	Amended to update the sub-clause on procedure.	2021-12-07
SANS 1015 Ed 1.3	<i>Fire resisting door units for record rooms</i>	Amended to delete appendix B on notes to purchasers.	2021-12-07
SANS 60601-2-54 Ed 1.1	<i>Medical electrical equipment – Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy</i>	Amended to update the scope, object and related standards, referenced standards and terms and definitions, to update the subclauses on accompanying documents, mechanical hazards associated with support systems, protection against unwanted and excessive radiation HAZARDS, protection against excessive temperatures and other HAZARDS, accuracy of controls and instruments and	2021-11-19

		protection against hazardous outputs, ME SYSTEMS, ME EQUIPMENT identification, marking and documents, RADIATION management, RADIATION QUALITY, limitation of the extent of the X-RAY BEAM and relationship between X-RAY FIELD AND IMAGE RECEPTION AREA, FOCAL SPOT TO SKIN DISTANCE, test for STRAY RADIATION, and to update the annexes on guide to marking and labelling requirements for ME EQUIPMENT and ME SYSTEMS and on particular guidance and rationale.	
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## 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

## 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 61158-3-4:2021 Ed 1	<i>Industrial communication networks – Fieldbus specifications – Part 3-4: Data-link layer service definition – Type 4 elements.</i> Provides common elements for basic time-critical messaging communications between devices in an automation environment.
SANS 3000-2-2-1:2021 Ed 2	<i>Railway safety management Part 2-2-1: Requirements for systemic engineering and operational safety standards - Track and associated civil infrastructure and installations - Level crossings.</i> Describes the minimum requirements for level crossings to be met by developers, agents, network operators, and where relevant by train operators, road authorities, private road owners and other relevant and affected parties to accomplish the required levels of safety and performance for those operations throughout their life cycle.
SANS 61158-3-20:2021 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.
SATR 62681:2021 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. Concerns the major parameters adopted to describe the electromagnetic environment of a High-Voltage Direct Current (HVDC) transmission line, including electric fields, ion current, magnetic fields radio interference, and audible noise generated as a consequence of such effects.
SANS 21998:2021 Ed 1	<i>Interpreting services – Healthcare interpreting – Requirements and recommendations.</i> Specifies requirements and recommendations for healthcare interpreting services in spoken and signed communication.

Standard No. and year	Title, scope and purport
SANS 60793-2:2021 Ed 4	<i>Optical fibres – Part 2: Product specifications – General.</i> Contains the general specifications for both multimode and single-mode optical fibres.
SANS 60947-6-2:2021 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.
SANS 61386-21:2021 Ed 2	<i>Conduit systems for cable management – Part 21: Particular requirements – Rigid conduit systems.</i> Specifies the requirements for rigid conduit systems.
SANS 61386-22:2021 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.
SANS 20904:2021 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.

## 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 10142-1:2021 Ed.3.1	<i>The wiring of premises – Part 1: Low-voltage installations. Consolidated edition incorporating amendment No.1.</i> Amended to move reference to legislation and to an association to the foreword, to update the clauses on compliance, fundamental requirements, installation requirements, special installations or locations, and on verification and certification, and to update the annex on classification of safety services necessary for medical locations.
SANS 1515-4-1:2021 Ed 1.1	<i>Gas measuring equipment primarily for use in mines – Part 4-1: Battery-operated portable, oxygen-deficient/oxygen-enriched measuring instruments and warning devices. Consolidated edition incorporating amendment No.1.</i> Amended to update the sub-clause on flameproof sensor enclosure, the sub-clause on sensor enclosure marking – flameproof sensor enclosure, the annex on assessment of compliance with this part of SANS 1515, and the referenced standards.
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. Consolidated edition incorporating amendment No.1.</i> Amended to update the scope, terms and definitions, and the clauses on classification, marking and instructions, heating, stability and mechanical hazards, mechanical strength, construction, and on supply connection and external flexible cords components requirements.
SANS 1879:2021 Ed 2.1	<i>Precast concrete suspended slabs. Consolidated edition incorporating amendment No.1.</i> Amended to update referenced standards, definitions, the clause on requirements, and to delete the annex on notes to purchasers.
SANS 439:2021 Ed 1.1	<i>Vests – Short sleeved, long sleeved and athletic type. Consolidated edition incorporating amendment No.1.</i> Amended to update referenced standards, and to delete the annex on notes to purchasers.
SANS 888:2021 Ed 3.2	<i>Interlining. Consolidated edition incorporating amendment No.2.</i> Amended to update referenced standards, and to delete the annex on notes to purchasers.
SANS 10160-5:2021 Ed 1.2	<i>Basis of structural design and actions for buildings and industrial structures Part 5: Basis for geotechnical design and actions.</i> Amended to update the annex on basic guidance on design of foundations and evaluation of earth pressures.

**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

**SCHEDULE B4: DISBAND OF TECHNICAL COMMITTEES**

Committee No	Title	Scope

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.

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