

## DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

## NOTICE 972 OF 2022

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 60287-2-1 Ed 2	<i>Electric cables – Calculation of the current rating – Part 2-1: Thermal resistance – Calculation of the thermal resistance.</i> Applies solely to the conditions of steady-state operation of cables at all alternating voltages, and direct voltages up to 5 kV, buried directly in the ground, in ducts, in troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air.	2022-05-31
SANS 60287-3-1 Ed 2	<i>Electric cables – Calculation of the current rating – Part 3-1: Sections on operating conditions – Reference operating conditions and selection of cable type.</i> Applicable to the conditions of steady-state operation of cables at all voltages, buried directly in the ground, in ducts, troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air.	2022-05-26

## 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 1574-5 Ed 1.2	<i>Electric flexible cables with solid extruded dielectric insulation – Part 5: Rubber-insulated cables for industrial use</i>	Amended to delete the annex on notes to purchasers.	2022-05-26

## 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 1589-1:2022 Ed 1	<i>The requirements for braking systems of Underground Trackless Mobile Machines – Part 1: Design, performance and testing requirements.</i> Specifies minimum performance requirements and test procedures for the braking systems of underground trackless mobile machines that are designed for or modified for the use in underground mining operations.

Standard No. and year	Title, scope and purport
SANS 1589-2:2022 Ed 2	<i>The requirements for braking systems of Underground Trackless Mobile Machines – Part 2: In service brake testing of underground Trackless Mobile Machines and trailer combinations.</i> Specifies requirements for the in-service brake testing of self-propelled Trackless Mobile Machines (TMMs) that are used in underground mines for the purpose of towing other machines or equipment on wheels, trailers, as well as other combinations of towing machines and trailers.
SANS 1589-3:2022 Ed 1	<i>The requirements for braking systems of Underground Trackless Mobile Machines – Part 3: In-service brake testing (trailers excluded).</i> Specifies requirements for the in-service brake testing of self-propelled trackless mobile machines (TMM) that are used in underground mines.
SANS 62271-214:2022 Ed 1	<i>High-voltage switchgear and controlgear – Part 214: Internal arc classification for metal-enclosed pole-mounted switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV.</i> Specifies requirements for internal arc classification of metal-enclosed pole-mounted switchgear installations used for alternating current with rated voltages above 1 kV and up to and including 52 kV with service frequencies up to and including 60 Hz.
SANS 60884-3-1:2022 Ed 1	<i>Plugs and socket-outlets for household and similar purposes – Part 3-1: Particular requirements for socket-outlets incorporating USB power supply.</i> Applies to fixed or portable socket-outlets for AC only, with or without earthing contact, with a rated voltage greater than 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors, incorporating USB power supply.
SANS 13577-4:2022 Ed 1	<i>Industrial furnace and associated processing equipment – Safety – Part 4: Protective systems.</i> Specifies the requirements for protective systems used in industrial furnaces and associated processing equipment (TPE).
SANS 20139:2022 Ed 1	<i>Uniform provisions concerning the approval of passenger cars with regard to Brake Assist Systems (BAS).</i> Applies to the approval of vehicles of category M <sup>1</sup> and N1 <sup>1</sup> with regard to their brake assist systems.
SANS 289:2022 Ed 2	<i>Labelling requirements for pre-packaged products (pre-packaged) and general requirements for the sale of goods subject to legal metrology control.</i> Covers requirements for the labelling of pre-packaged products with respect to a) the identity of the product, b) the name and place of business of the manufacturer, packer, distributor, importer or retailer, and c) the net quantity of the product. It also covers general requirements for the sale of goods and prescribed sizes in which certain products are packaged.
SANS 12999-1:2022 Ed 1	<i>Acoustics – Determination and application of measurement uncertainties in building acoustics - Part 1: Sound insulation.</i> Specifies procedures for assessing the measurement uncertainty of sound insulation in building acoustics.
SANS 16283-1:2022 Ed 1	<i>Acoustics – Field measurement of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation.</i> Specifies procedures to determine the airborne sound insulation between two rooms in a building using sound pressure measurements.
SANS 16283-2:2022 Ed 1	<i>Acoustics – Field measurement of sound insulation in buildings and of building elements - Part 2: Impact sound insulation.</i> Specifies procedures to determine the impact sound insulation using sound pressure measurements with an impact source operating on a floor or stairs in a building
SANS 62061:2022 Ed 1	<i>Safety of machinery – Functional safety of safety-related control systems.</i> Specifies requirements and makes recommendations for the design, integration and validation of safety-related control systems (SCS) for machines.
SANS 13577-1:2022 Ed 1	<i>Industrial furnaces and associated processing equipment – Safety – Part 1: General requirements.</i> Specifies the general safety requirements common to industrial furnaces and associated processing equipment (TPE).
SANS 23873:2022 Ed 1	<i>Hard coal – Method for the measurement of the swelling of hard coal using a dilatometer.</i> Describes a method for the measurement of the swelling of hard coal using a dilatometer.

Standard No. and year	Title, scope and purport
SANS 1874:2022 Ed 4	<i>Switchgear – Metal-enclosed ring main units for rated a.c. voltages above 1 kV and up to and including 36 kV.</i> Specifies the characteristics of new factory-assembled metal enclosed ring main units that are rated for use on a three-phase cable system for rated a.c. voltages above 1 kV and up to and including 36 kV, and are designed for indoor or outdoor operation at a rated frequency of 50 Hz.
SANS 60227-5:2022 Ed 2	<i>Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 5: Flexible cables (cords).</i> Details the particular specifications for polyvinyl chloride insulated flexible cables (cords), of rated voltages up to and including 300/500 V.
SANS 62271-101:2022 Ed 3	<i>High-voltage switchgear and controlgear – Part 101: Synthetic testing.</i> Applies to AC circuit-breakers within the scope of IEC 62271-100 (published in South Africa as an identical adoption under the designation SANS 62271-100).
SANS 80601-2-60:2022 Ed 1	<i>Medical electrical equipment – Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment.</i> Applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE OF DENTAL UNITS, DENTAL PATIENT CHAIRS, DENTAL HANDPIECES AND DENTAL OPERATING LIGHTS, thereafter, referred to as DENTAL EQUIPMENT.
SANS 1707-2:2022 Ed 2	<i>Sawn eucalyptus timber – Part 2: Brandering and battens.</i> Specifies requirements for one grade of eucalyptus timber that is suitable for use as brandering and battens, i.e. intended for being fixed against the beams and joists in roofs for the attachment of ceilings and for the boxing in of eaves, and for use as supports on roof trusses for the fixing of roofing slates, tiles, wooden shingles, sheeting and thatch.
SANS 17247:2022 Ed 3	<i>Coal and coke - Ultimate analysis.</i> Establishes a practice for the ultimate analysis of coal and coke and is intended for general utilization by the coal and coke industries to provide a basis for comparison of coals and cokes.

## 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 951:2022 Ed 3.2	<i>Fire-resistant record protection equipment. Consolidated edition incorporating amendment No. 2.</i> Amended to delete the appendix on notes to purchasers.
SANS 876:2022 Ed 2.2	<i>Cable terminations and live conductors within air-filled enclosures (insulation co-ordination) for rated a.c. voltages from 7,2 kV up to and including 36 kV Consolidated edition incorporating amendment No. 2.</i> Amended to replace reference to "specification" with "standard", to update the sub-clause on enclosures for cable terminations in air, to replace reference to "tender" with "supplier" or "manufacturer", to update the annex on guide to purchasers on preparing an enquiry, the annex on model form for schedules A and B, and the annex on illustrations of enclosures and live conductors.
SANS 1657:2022 Ed 2.4	<i>Bottled water of subterranean origin. Consolidated edition incorporating amendment No. 4.</i> Amended to update the referenced standards, and to delete the annex on notes to purchasers.

## 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
SANS 60439-5:2006 Ed 2	<i>Low-voltage switchgear and controlgear assemblies – Part 5: Particular requirements for assemblies for power distribution in public networks</i>

SANS 61243-5:1997 Ed 1	<i>Live working - Voltage detectors – Part 5: Voltage detecting systems (VDS)</i>
SANS 62103:2005 Ed 1	<i>Electronic equipment for use in power installations</i>
SANS 62271-112:2014 Ed 1	<i>High-voltage switchgear and controlgear – Part 112: Alternating current high-speed earthing switches for secondary arc extinction on transmission lines</i>
SANS 62271-206:2011 Ed 1	<i>High-voltage switchgear and controlgear – Part 206: Voltage presence indicating systems for rated voltages above 1 kV and up to and including 52 kV</i>
SANS 1700-5-14:1996 Ed 1	<i>Fasteners – Part 5: General requirements and mechanical properties – Section 14: Bolts, screws, studs and nuts made of non-ferrous metals</i>
SANS 1700-5-17:2003 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>
SANS 1700-6-5:1998 Ed 1	<i>Fasteners – Part 6: Testing and acceptance inspection – Section 5: Widening test on nuts</i>
SANS 1700-14-11:2003 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>
SANS 1709:2008 Ed 1	<i>Water spray fixed systems for fire protection</i>
SANS 18878:2007 Ed 1	<i>Mobile elevating work platforms – Operator (driver) training</i>
SANS 6072:2009 Ed 2	<i>Coking properties of coal (Ruhr dilatometer test)</i>
SANS 10746-1:2003 Ed 1	<i>Information technology – Open distributed processing – Reference model: Overview</i>
SANS 10746-2:2003 Ed 1	<i>Information technology – Open distributed processing – Reference model: Foundations</i>
SANS 10746-3:2003 Ed 1	<i>Information technology – Open distributed processing – Reference model: Architecture</i>
SANS 10746-4:2003 Ed 1	<i>Information technology – Open distributed processing – Reference model: Architectural semantics</i>

#### **SCHEDULE B.4: 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 B.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.